C-V8XPRO202210

Midea

2023

V8X PRO Series

Catalogue

SMART IN ONE

HEATPUMP

Midea Building Technologies Division

Midea Group

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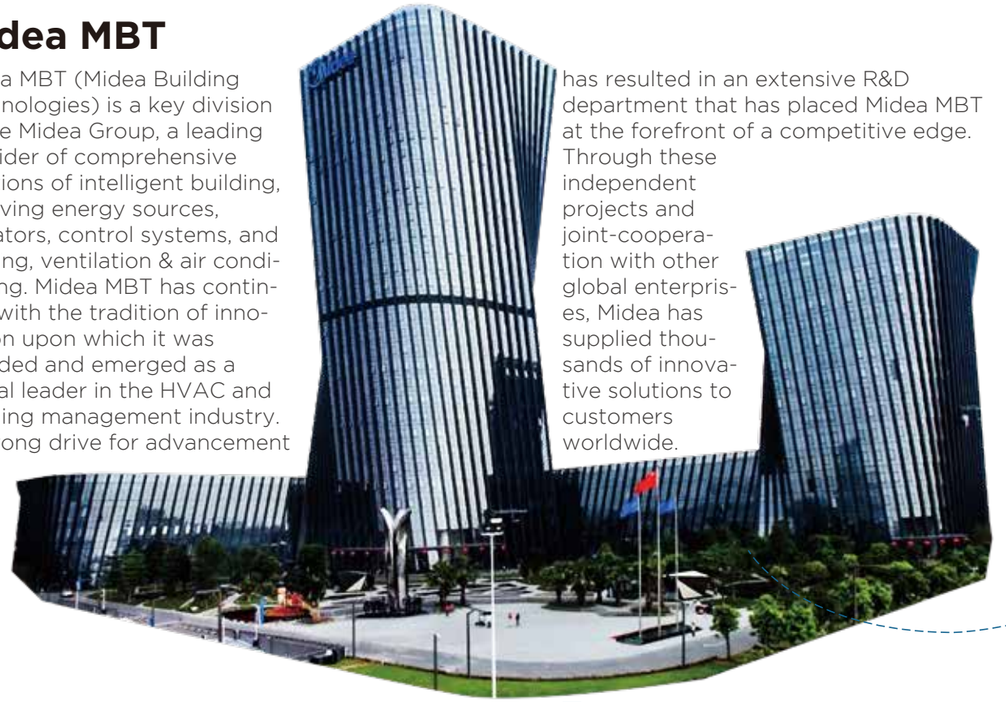
mbt.midea.com www.midea-group.com tsp.midea.com

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

Midea MBT

Midea MBT (Midea Building Technologies) is a key division of the Midea Group, a leading provider of comprehensive solutions of intelligent building, involving energy sources, elevators, control systems, and heating, ventilation & air conditioning. Midea MBT has continued with the tradition of innovation upon which it was founded and 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 a competitive edge. Through these independent projects and joint-cooperation with other global enterprises, Midea has supplied thousands of innovative solutions to customers worldwide.

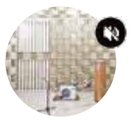


3 businesses constitute the significant components of Midea intelligent building solutions

4 production bases can achieve fast delivery

Over 100 testing labs cover all different real application sceneries


Security construction


Noise


Performance


Environmental Simulation


Reliable & long-lasting operation


EMC lab

All products can be visualized and digitalized throughout entire process

Midea VRF History

1999

- Cooperated with Toshiba in inverter technologies

2005

V3

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

2008-2014

V4

- Launched **V4, D4** Series VRF
- Complete product line with heat pump series, heat recovery series and water - cooled series.
- Maximum capacity of single unit is 16HP

2014

V5X

- Launched **V5X** Series VRF
- Full DC inverter technology
- Maximum capacity of single unit is 22HP

2017-2020

VX

- Launched heat pump **VX** Series VRF, cooling only **VC Pro** Series VRF and heat recovery **V6R** Series VRF
- Full DC inverter technology
- Maximum capacity of single unit is 34HP

2022

V8X

- Launching the 8th generation **V8X** Series VRF
- Full DC inverter technology
- Maximum capacity of single unit is 38HP

Benefits of Midea VRF

For End-users

Healthy Operation

Cost Saving Operation

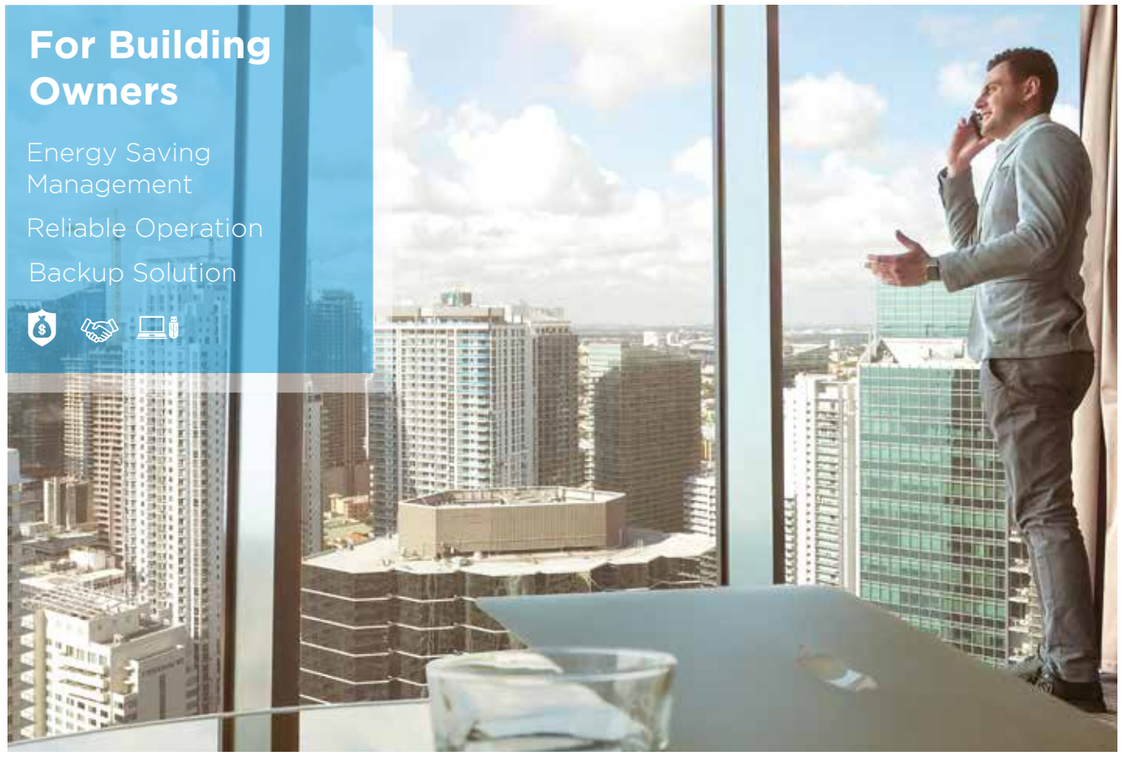
Comfortable Environment

For Consultants

Diversified Solutions

Professional Tool and Support

Design Flexibility



For Building Owners

Energy Saving Management

Reliable Operation

Backup Solution

For Construction Companies

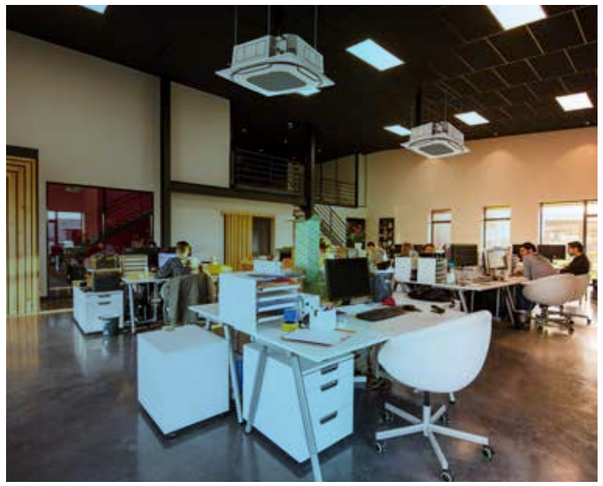
Green Solutions

Space Saving Design

Intelligent Management

Application Solutions

Office Complexes



Enjoy comfort while working

Be it small or large sized, Midea VRF provides solution for all office buildings and its smart control solutions makes the management of VRF simple and easy whereas the wide variety of indoor units are suitable for all designs.

Residential Apartments

One for every home

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

Hotels & Shopping Malls

Increase your business, not your bills

The high efficiency and reliability of Midea VRF makes it suitable to be used for all commercial applications. The intelligent control solutions like hotel key cards and touch screen controller makes the management easy.

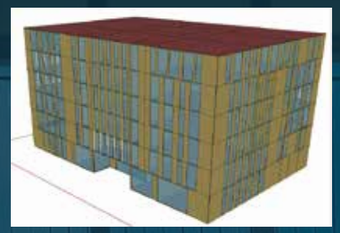
Hospitals/ Schools/ Airports

Meeting all expectations

The innovative design and a variety of indoor unit choices makes Midea VRF suitable for all kinds of applications. The newly designed puro-air kit is perfect for modern hospitals.

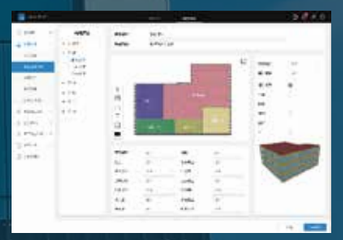
ALL DIGITALIZED SERVICE

Design Service



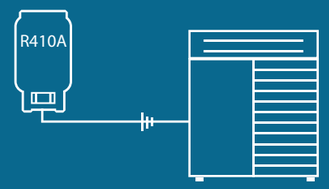
Energy Plus
Building load calculation

BIM
building
information
import



MSSP Online
VRF system design

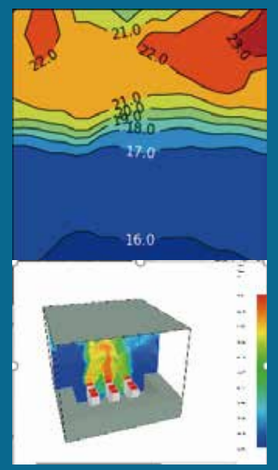
Installation service



Automatic refrigerant charge

Automatic commis-sioning report

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 main-tenance tool

Cloud-based big data analytics

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

Technical Support Platform (TSP)

TSP is a platform for customers to provide professional technical support. Through TSP, you can inquire product information, documentation, spare parts and troubleshooting, initiate technical questions and quality complaint process, and also support self-service spare parts order.

Website address: https://tsp.midea.com/

My order

Inquire spare parts from exploded view and place spare parts order directly in TSP.

Document inquiry and download

View or download product technical documentation online, such as catalogs, images, training PPTs, etc.

Technical inquiry & FAQ

Initiate technical questions online, and our technicians answer them online in time. Find a quick solution in the FAQ.

Troubleshooting

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

Complain

Initiate the product quality complaint process online, and our after-sales engineers handle related complaints in time.

Mobile Intelligence Service App (MISA)

MISA is the mobile terminal of TSP, with the same functions as TSP. The mobile service makes technical support more timely and convenient.

https://link.midea.com

FAQ

Complain

Technical Enquiry

Search product manuals

Trouble shooting

Spare Parts list

Download

Scan above to download the mobile app

Feedback

Thank you very much for your attention and advice

Midea Global Spare Parts Center

The global spare parts center provides high quality and fast spare parts supply. Midea online system (https://tsp.midea.com) can query and purchase spare parts with one click, further shortening the supply time of spare parts.

The "2 (HQ Spare parts center) +10 (Regional Spare parts center) +N (Country Spare parts inventory)" Spare Parts Layout can ensure the timely supply of global after-sales spare parts.

OUTDOOR UNITS

V8X (Combinable series)

V8Xi (Individual series)

The V8X Series

VRF uses a variety of algorithms and self-learning technology to monitor the operation of the equipment through operating parameters and timely maintenance, so that the equipment always runs in optimal condition throughout its life cycle.

Outdoor Unit Lineup

V8X (Combinable series)

HP	8-20	22-28	30-38
Single Unit			

HP	40-76	78-114
Combined Unit		

Note: Four units combination are possible for the 8-26 HP models, for four units combination please contact Midea.

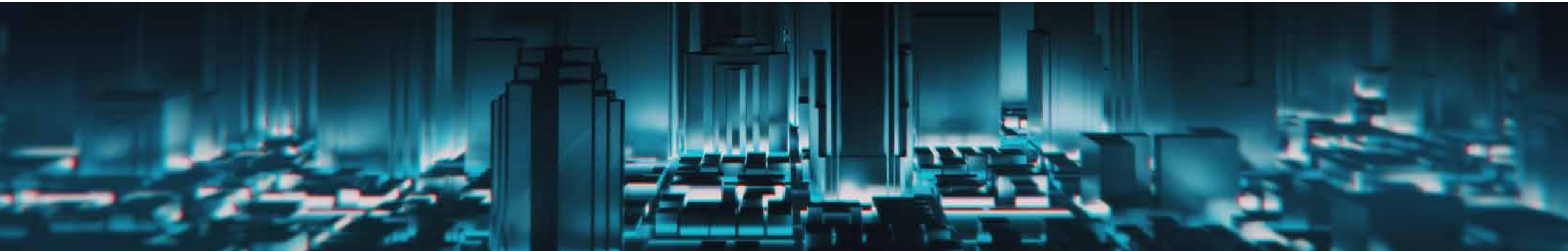
V8Xi (Individual series)

HP	8-20	22-28	30-38
Single Unit			

Outdoor Unit Functions

Functions ●: equipped as standard; O: customization option; X: without this function			V8X	V8Xi
Innovative Technologies	HyperLink	Midea original communication bus chip greatly simplifies installation and saves installation cost	●	●
	ShieldBox	IP55 Fully sealed electric control box realizes resisting all factors that cause intrusion and damage to the electric control box	●	●
	SuperSense	19 sensors achieves the state of each part of the refrigerant pipeline can be known in the whole process	●	●
	Meta 2.0	Triple variable control to maximize the comfort and energy efficiency	●	●
	Zen air 2.0	Provides comfort and healthy air supply	●	●
	Doctor M 2.0	Intelligent diagnostic technology makes maintenance easier and more efficient	●	●
High Efficiency	Full DC inverter technology	All electrical components of outdoor and indoor units are DC power supply, improving electrical efficiency and achieving energy saving	●	●
	Enhanced Vapor Injection (EVI) compressor	Increases refrigerant circulation and improves both cooling and heating capacity	●	●
	Micro-channel refrigerant subcooling	The refrigerant system can achieve 15°C refrigerant subcooling, which can further improve the refrigerant heat transfer efficiency while reducing the sound	●	●
	Low standby power consumption	The standby power consumption is as low as 3.5W	●	●
	G-type heat exchanger	Large capacity outdoor unit with G-type heat exchanger, which can increase the heat exchanger area and saves floor space	●	●
	60-step energy management	The system can be set 40% to 100% capacity output in 1% increments	●	●
	Duty cycling (unit)	Equalizes the running time of the outdoor units in a multiple-unit system,significantly extending unit lifespan (available for combined unit)	●	×
	Duty cycling (compressor)	Equalizes the running time of the compressor in each unit, significantly extending compressor lifespan (available for unit with two compressors)	●	●

Functions ●: equipped as standard; O: customization option; X: without this function			V8X	V8Xi
High Reliability	Backup operation (unit)	If one unit fails, the other units provide backup so that the system can continue operating (available for combined unit)	●	X
	Backup operation (compressor)	If one compressor fails, the other compressor provide backup so that the system can continue operating (available for unit with two compressors)	●	●
	Backup operation (fan motor)	If one fan motor fails, the other fan motor provide backup so that the system can continue operating (available for unit with two fan motors)	●	●
	Backup operation (sensor)	If one sensor fails, the virtual sensor provide backup so that the system can continue operating	●	●
	Precise oil control	Ensures all outdoor compressor oil is at a safe level, eliminating any compressor oil shortage problems.	●	●
	Heavy anti-corrosion protection	Can be customized with heavy anti-corrosion treatment for surface protection against corrosive air, acid rain and saline air (for installations in coastal regions) to extend overall useful life	○	○
	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	○	○
	Micro-channel refrigerant cooling PCB	10 times higher than ordinary refrigerant pipe cooling efficiency	●	●
	Chassis electrical heater	Prevents condensation on the chassis from freezing in winter	○	○
	Anti-snow shield	Prevents the snow accumulating on the outdoor unit, guaranteeing the unit operating stable in snowy days	○	○
	Auto snow-blowing function	Blows away accumulated snow on the outdoor unit, guaranteeing the unit operating stable in snowy days	●	●
	Auto dust-clean function	Blows away accumulated dust on the outdoor unit, guaranteeing the unit operating stable in dusty environment	●	●
	Alarm output	In case of system malfunction, remote output error information, remind maintenance personnel timely maintenance	●	●
	Fire alarm input	In case of fire, receive fire information in time and stop the system immediately to avoid serious problems	●	●



Outdoor Unit Functions

Functions ●: equipped as standard; O: customization option; X: without this function			V8X	V8Xi
Enhanced Comfort	Silent mode	15-step silent mode selections provide more freedom and convenience to match the customer needs	●	●
	Humidity control	Combined with the optional humidity sensor, the room humidity can be controlled by 35% to 75%	○	○
	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)	●	●
	Additional ambient temperature sensor	The additional external ambient temperature sensor can detect the true outdoor ambient temperature, correctly judge whether the system is 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 room temperature fluctuation	●	●
	Multiple priority modes	10 priority modes meet the requirements of all scenarios	●	●
Wide Application Range	Wide capacity range	Meets all customer requirements from small to large buildings	8-38HP (single) 40-114HP (combined)	8-38HP
	Wide range of indoor units	Provides 12 types and more 100 models of VRF indoor units to meet different application scenarios	●	●
	Wide operation range	Operates stably under extreme conditions	-15-55°C (C) -30-30°C (H)	-15-55°C (C) -30-30°C (H)
	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	●	●
	Auto addressing (ODU-ODU)	Distributes addresses to slave outdoor units automatically, further simplifying the installation (available for combined unit)	●	×

Functions ●: equipped as standard; O: customization option; X: without this function			V8X	V8Xi
Easy Installation And Service	Automatic refrigerant charging	Makes installation and service easier and more efficient	○	○
	Automatic refrigerant recycling	Refrigerant can recycle to ODUs or IDUs and normal ODUs, 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, indoor and outdoor units programme upgrade, etc., simplifying installation and maintenance.	○	○
	Digit display	4 digit 7-segment display can be intuitive for parameter setting, parameter check and error check	●	●
	High external static pressure	Up to 120Pa ESP allows easy handling in a variety of installation environments	0-20Pa ● 20-120Pa ○	0-20Pa ● 20-120Pa ○
	Arbitrary topology of communication wire	Supports any communication topology, greatly simplifies installation and reduces installation cost	●	●
	2-core non-polarity communication wiring between the indoor and outdoor units	Simplifies installation and reduces wiring failures	●	●
	Long communication wiring	Communication wiring up to 2000m makes installation more flexible	●	●
	Wide combination ratio	Combination ration can be extended to 50%-200% under certain conditions which can meet different project requirements	50-130% ● 50-200% (for single unit system) ○	50-130% ● 50-200% ○
	Supports manual and automatic defrosting	Improves maintenance efficiency	●	●
	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	●	●
	Flexible controller connection	Central controller and BMS gateway can connect to ODU at the same time, central controller can connect to ODU or IDU	●	●
	Refrigerant amount diagnosis	The unit can diagnose excessive or insufficient amounts of refrigerant, 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 done on-site or remotely via the web	●	●
	Intelligent maintenance tool	Intelligent bluetooth after-sales kit can simplify maintenance and improve maintenance efficiency	○	○

Note:
*1: The web function needs to be realized through the data cloud gateway, and the data cloud gateway needs to be purchased separately.

INNOVATIVE

TECHNOLOGIES

HyperLink New & Unique

ShieldBox New & Unique

SuperSense New & Unique

ETA 2.0

ENair 2.0

DOCTOR m. 2.0

HyperLink

New & Unique

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

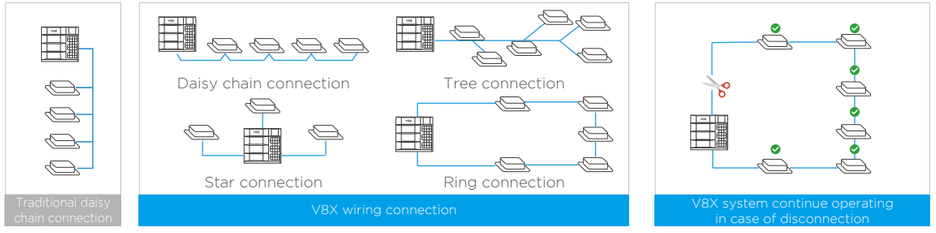
Benefits

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

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

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 wring is flexible, which greatly reduces the installation cost and has no possibility of wrong connection on site.

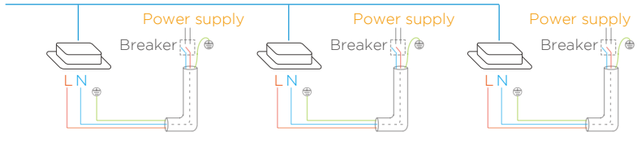


Super Anti-interference Capability

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

Flexible Power Supply for Indoor Units

HyerLink '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.



ShieldBox

New & Unique

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


Anti-corrosion


Dustproof


Rain & snow proof


Insect proof

Benefits

- High reliability
- Stable operation

IP (INGRESS PROTECTION)

IP 55

Dustproof grade code
Prevent entry foreign objects and dust

Waterproof grade code
Prevent water spray in all directions

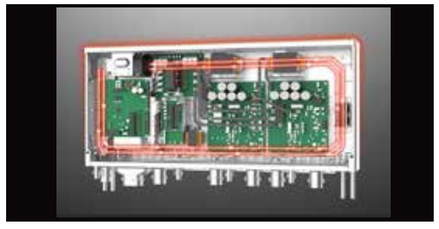
Fully enclosed electronic components are isolated from the external environment to protect against corrosion, sand, humidity, snowstorm and other harsh conditions, and prevent small animals and insects from entering the chamber. To provide comprehensive protection for internal electronic devices, improve 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.

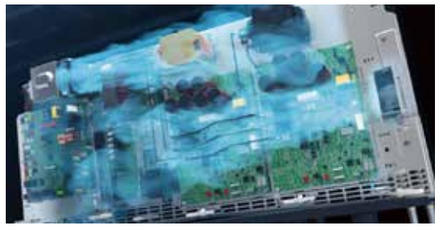
PTC Heater

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.



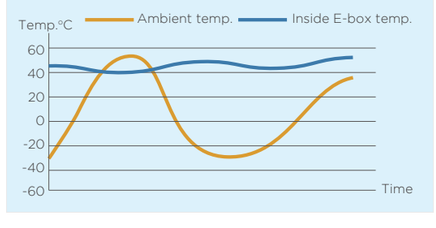
Built-in Circulating Fan

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.



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

New & Unique

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

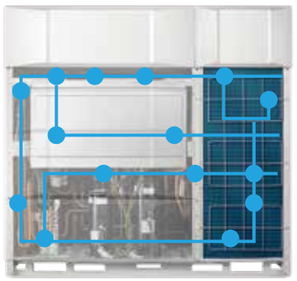
Benefits

- High reliability
- Stable operation
- Enhanced comfort

Up to 19 sensors are distributed throughout the refrigerant system, and the status of the refrigerant is known anywhere 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.

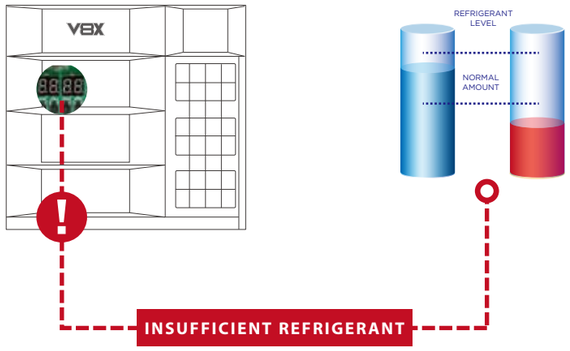
Complete Sensors

The V8X Series VRF has the industry's most comprehensive range of 19 condition sensors with built-in data models for compressors, heat exchangers, throttling components and more. By analyzing sensor data in real time, it can sense the status of the refrigerant anywhere in the system.



Refrigerant Amount Diagnosis*

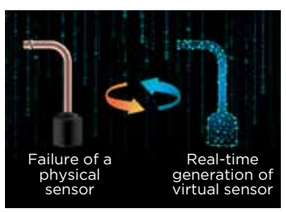
Thanks to the complete sensors, the refrigerant running state is clearly visible, so as to accurately diagnose the amount of refrigerant.



*This function is available at the end of July 2022.

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**.

Benefits

- Energy saving
- Enhanced comfort
- Fast cooling/heating

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

Variable Refrigerant Flow

STEP 1: Architectural space feature recognition

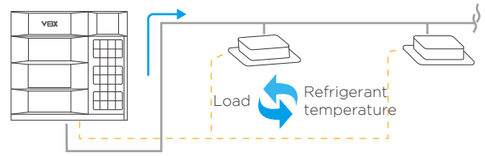
The indoor unit automatically recognizes the size of the building space and the effectiveness of the insulation according to the rate of temperature drop.

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

Variable Refrigerant Temperature

STEP 2: System refrigerant temperature determination

The system automatically matches the evaporating temperature (in cooling) or condensing temperature (in heating) to the room load to maximize comfort and energy efficiency.



Automatic matching of the corresponding refrigerant temperature to the load.

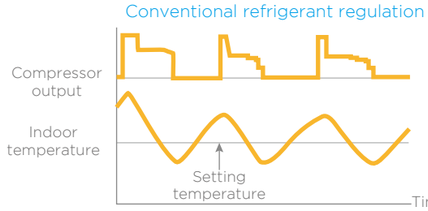
Variable Indoor Airflow

STEP 3: Adaptive indoor airflow and refrigerant flow

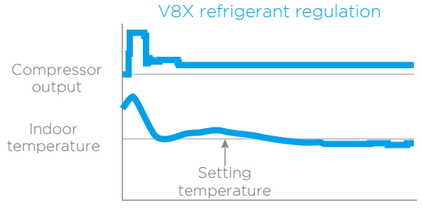
Each indoor unit automatically adjusts the corresponding indoor airflow and refrigerant flow according to the evaporating/condensing temperature, enabling precise temperature control.

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

Conventional refrigerant regulation

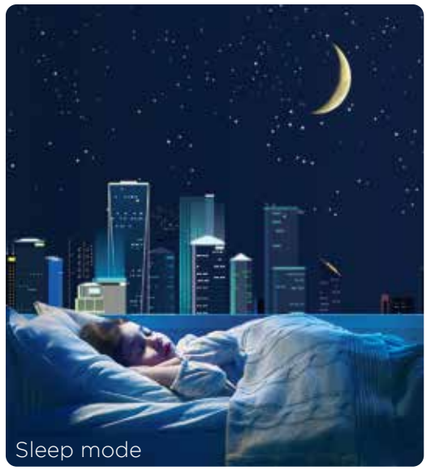


V8X refrigerant regulation



Zen Air 2.0

Further upgraded ZEN AIR technology to maximize **COMFORT**.



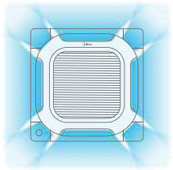
Benefits

- Quiet
- Enhanced comfort
- Healthy

0.5°C temperature adjustment, 7 fan speeds selection, sleep mode, silent mode, windless technology, high efficiency filter, a variety of sterilization device and other advanced technologies used in V8X Series VRF are dedicated to creating a quiet, comfortable and healthy indoor environment.

360° Airflow

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

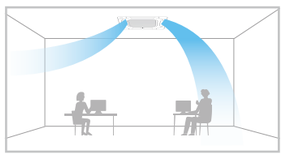


7 Fan Speeds

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

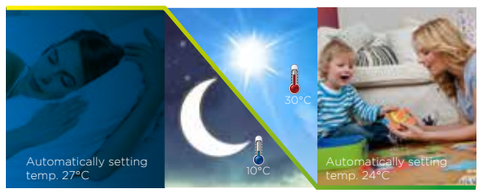
Individual Louver Control

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



Sleep Mode

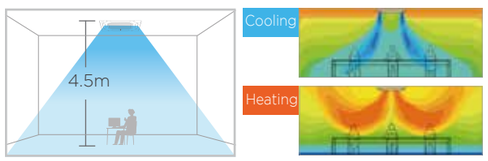
The smart sleep mode provides a comfortable sleep period and a refreshing wake up time.



*Temperature on left is for reference.

Long Distance Air Delivery*

The Four-way Cassette has an additional 50Pa static pressure for long airflow delivery and is capable of being used in spaces up to 4.5m in floor height.



*This function is available as a customization option.

Innovative Puro-air Kit

Protectors of health and safety

OSRAM From Germany - OSRAM quality UV light source

1st The world's first air conditioning sterilization product certification
99.9% Effective killing rate of white grape fungus
99.9% Effective killing rate of H1N1
98% Effective killing rate of natural bacteria

Ozone –Free
UV leakage-Free

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

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 V8X 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. Intelligent Bluetooth module and special Bluetooth after-sales kit can further simplify maintenance and improve maintenance efficiency.

Intelligent Maintenance Tool

With intelligent Bluetooth module or special Bluetooth after-sales kit, the data of the outdoor unit can be directly read and written on your smart phone without the needs of connecting PC or opening cabinet.

*The Bluetooth module is available as a customization option.

Real-time Monitoring of Operating Parameters

The V8X Series VRF synchronizes and stores all the unit parameters to the cloud through the data cloud gateway, including the running status, locking status, dirty blocking rate, all spot inspection parameters and so on. Users can query real-time and historical parameters on computers, tablets and mobile phones at any time.

Cloud-based Big Data Analytics

Midea V8X 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.

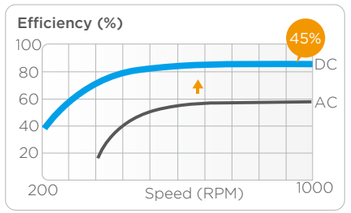
*The data cloud gateway is still under development and needs to be purchased separately.

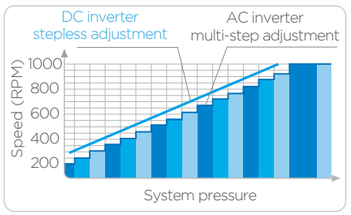
High Efficiency

Full DC Inverter Technology

Full DC Inverter for Outdoor Components

The V8X 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.





Wider frequency adjustment range

Faster cooling and heating

Higher energy efficiency

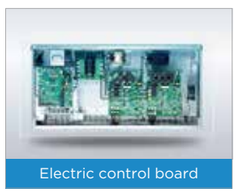
Full DC Inverter Technology

Full DC Inverter for Indoor Components

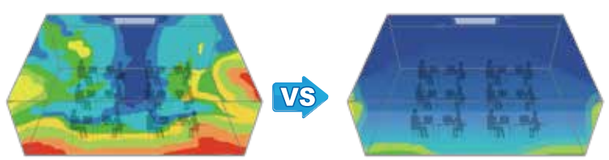
All power devices such as indoor fan motor, drain pump and electric control board are fully DC, which increases electrical efficiency by 20% and results in more accurate temperature control, a more constant indoor temperature and higher energy efficiency.


Fan motor


Drain pump

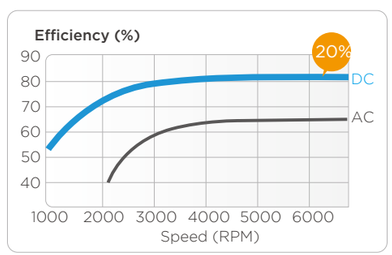

Electric control board

20%
Efficiency improvements



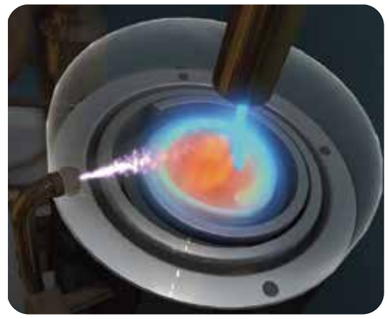
Uneven temperature distribution

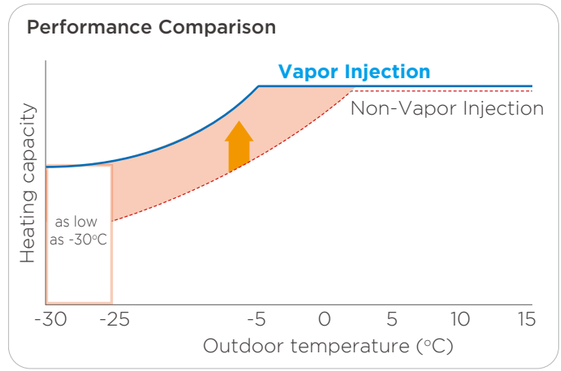
Uniform temperature distribution



Enhanced Vapor Injection (EVI) Compressor

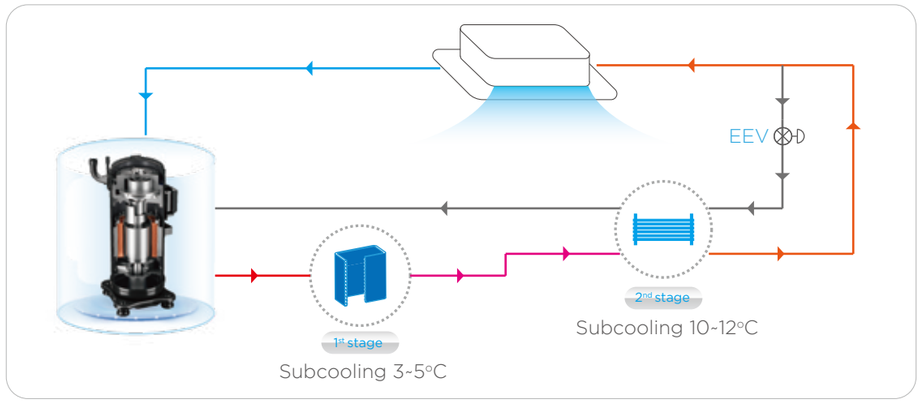
The enhanced vapor injection DC inverter compressor increases refrigerant circulation and improves both cooling and heating capacity.





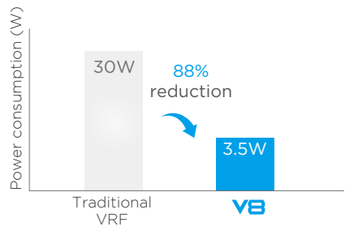
Advanced Subcooling Technology

The V8X 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.



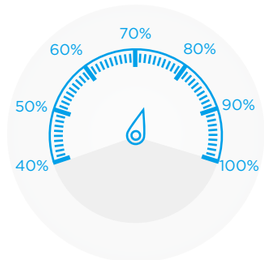
Low Standby Power Consumption

Compared to the standby power consumption of traditional VRF of about 30W, the V8X 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 electricity supply restriction conditions and remains system continue to operate.



High Reliability

Quadruple Backup

In two fans, two compressors and multiple units, one can run in backup for another. Additionally, the V8X 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.

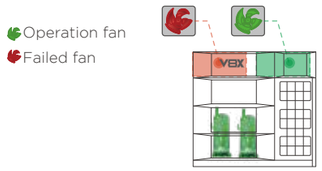
Intelligent load-bearing between units during normal operation

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.

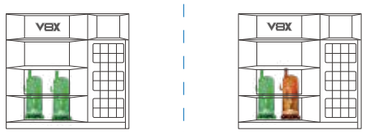
In normal operation, each fan runs on demand



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

Continue operating in case of failure of one compressor

4 Sensor Backup

New & Unique

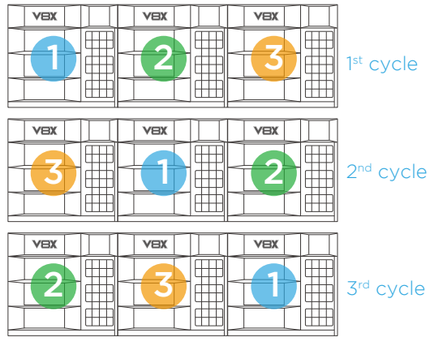
Through digital algorithms, each physical sensor generates a corresponding virtual sensor that acts as a backup to each other, ensuring that the failure of one sensor does not affect the normal operation of the system.

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

Double Duty Cycling

1 Unit Duty Cycling

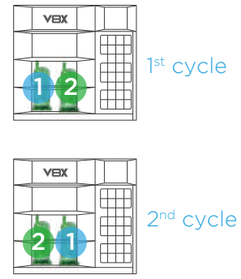
In a multi-unit system, duty cycling equalizes the running time of each outdoor unit, significantly extending unit lifespan.



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.



Compressor start-up sequence

ShieldBox

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

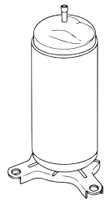
SuperSense

V8X 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 realize intelligent analysis of operation parameters, intelligent error diagnosis and forecasting, and visualized energy saving.

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.

1

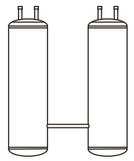


Compressor internal oil separation.

2

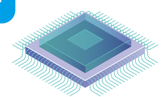
High-efficiency centrifugal oil separator (with separation efficiency of up to 99%) ensures that oil is separated from the discharge gas and returned to the compressors in a timely fashion.

3



Oil balance pipes between gas-liquid separator ensure even oil distribution to keep compressors running normally.

4



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

Heavy Anti-corrosion Protection*

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

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

UL Anti-Corrosion Certificate*

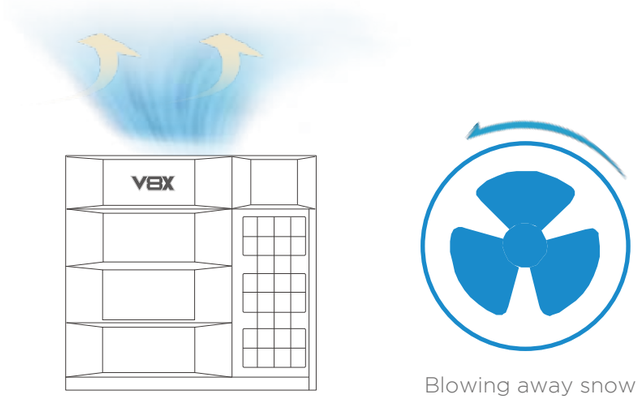
It has been certified by UL that our VRF outdoor unit can withstand 27 years of simulated severe corrosion under a salt contaminated traffic environment.

*UL anti-corrosion certificate is available for heavy anti-corrosion treatment units.

Outdoor Unit can resist 27 years of simulated severe corrosion under a salt contaminated traffic environment

Auto Snow-blowing Function

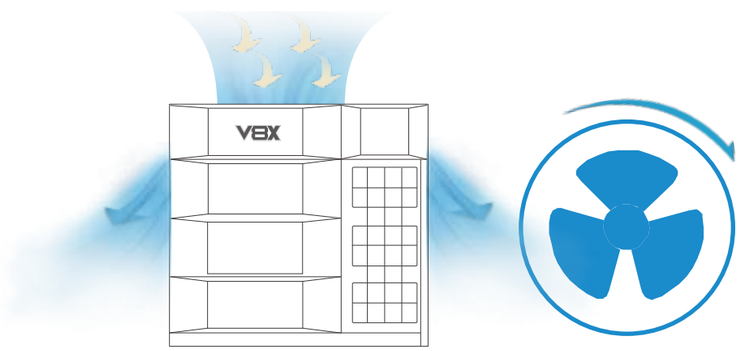
The innovatively designed auto snow-blowing function enables the outdoor unit to prevent the accumulation of snow by itself.



Blowing away snow

Auto Dust-clean Function

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

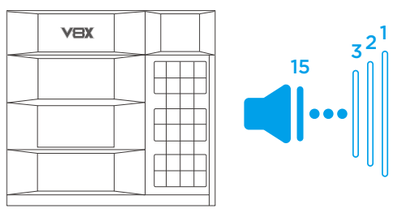


Self-clean

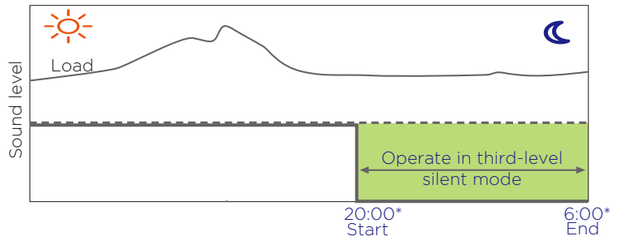
Enhanced Comfort

Advanced Silent Technology

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



15 silent options



Night silent mode

*The entry and exit time of the night silent mode can be set in the wired controller.

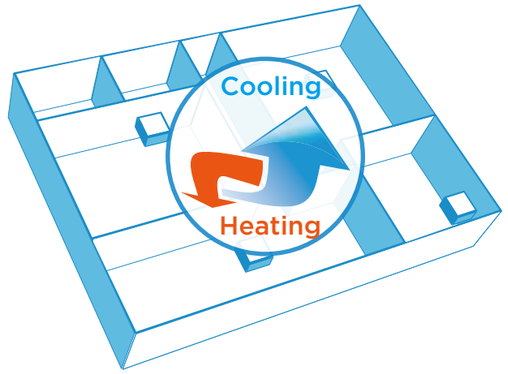
Humidity Control, More Comfortable*

The optional humidity control function can accurately control the indoor humidity. The default dehumidification mode ensures that the indoor humidity is always in the most comfortable range of 35~75%.

*This function is available as a customization option.

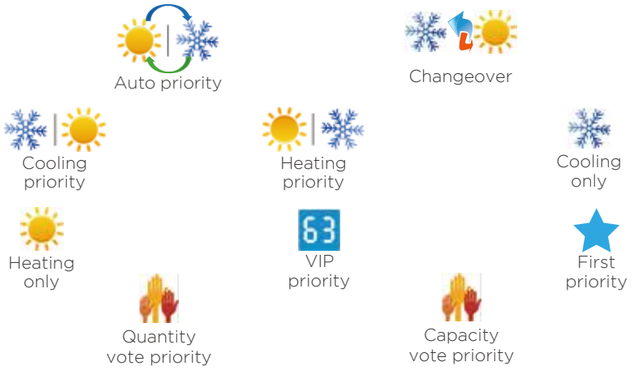
Auto Cooling-heating Changeover

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



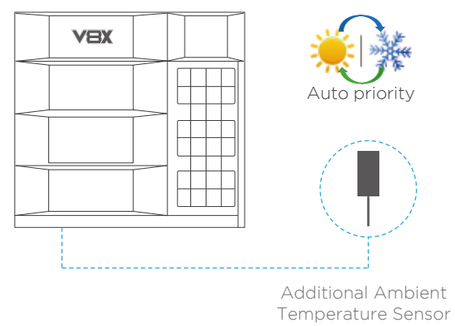
10 Priority Modes

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



Additional Ambient Temperature Sensor*

The V8X Series VRF can be equipped with an additional external ambient temperature sensor to determine whether the system is operating in cooling or heating in auto priority mode. For some installations, the ambient temperature sensor fixed on the unit cannot detect the true ambient temperature, resulting in the system operating in an inappropriate mode and affecting indoor comfort. The external ambient temperature sensor can detect the true outdoor ambient temperature, correctly judge whether the system is running in cooling or heating, ensuring indoor comfort.



*This function is available as a customization option.

Wide Application Range

Wide Capacity Range

The V8X Series VRF are available in individual series and combinable series. The individual series has capacities from 8HP to 38HP and the combinable series from 8HP to 114HP, perfectly suited for small to large buildings.

V8X - Combinable Series

Single unit

8-20HP

Single unit

22-28HP

Single unit

30-38HP

Combined unit

40-76HP

Combined unit

78-114HP

Note: Four units combination are possible for the 8-26 HP models, for four units combination please contact Midea.

V8Xi - Individual Series

Single unit

8-20HP

Single unit

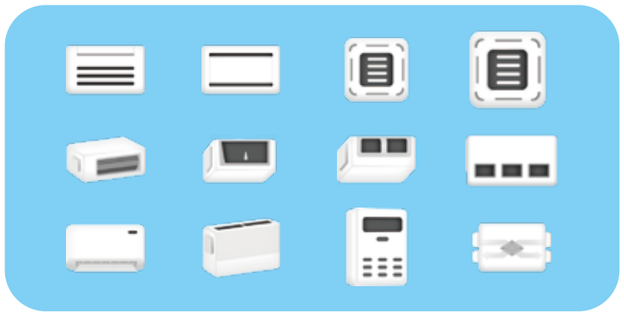
22-28HP

Single unit

30-38HP

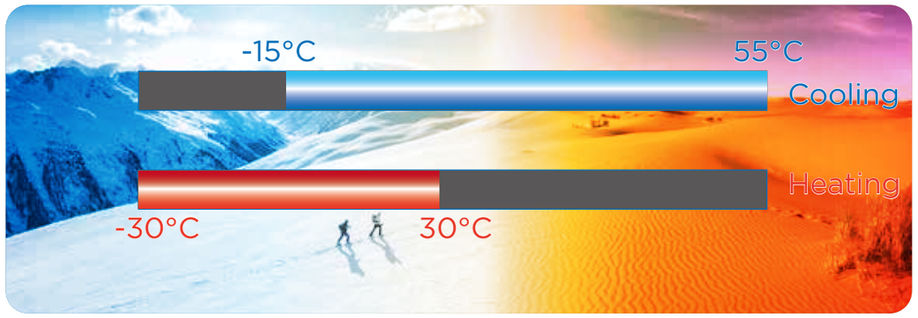
Wide Range of Indoor Units

The V8X Series VRF offers 12 types of over 100 models of indoor units to meet different scenarios of applications such as offices, shopping malls, hotels, airports, schools, hospitals, etc.



Wide Operation Range

Thanks to the EVI compressor and refrigerant cooling technology, the V8X Series VRF can operate at temperatures as low as -30°C for heating and up to 55°C for cooling.



Long Piping Capability

The total piping length of the V8X system can be up to 1100m, the level difference between indoor and outdoor units can be up to 110m and the level difference between indoor units can be up to 40m, making the V8X Series VRF perfectly suitable for all buildings.

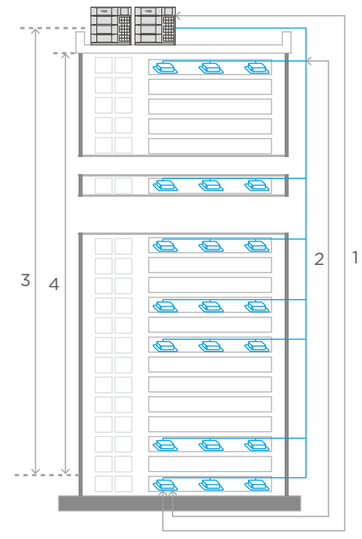
Total piping length: **1100m**
1 Longest piping length - actual (equivalent): **220(260)m**

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

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

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

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



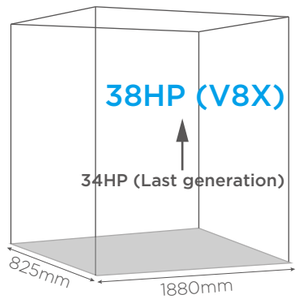
Easy Installation and Service

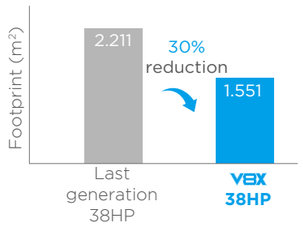
Free Wiring

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

Space Saving

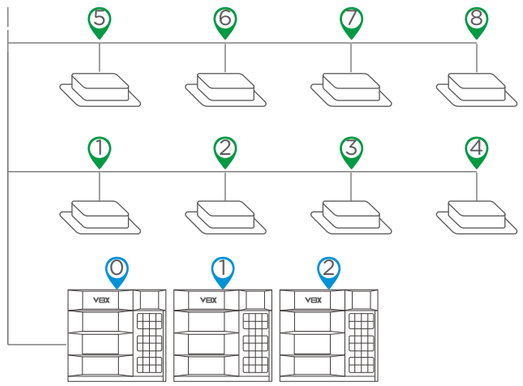
The V8X Series VRF has large capacity and small size, with a capacity of up to 36 HP in a single unit. A single unit can provide cooling/heating for a space of 400m². The space-saving advantages are particularly obvious for large projects.





Auto Addressing

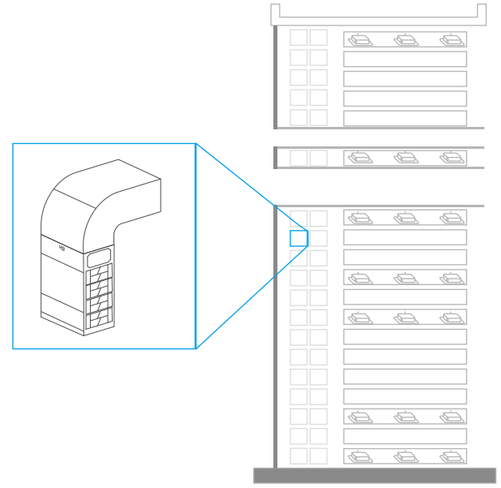
Addresses for all indoor units and combined outdoor units can be assigned automatically by the V8X system, further simplifying installation.



External Static Pressure up to 120Pa*

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

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



Automatic Refrigerant Charging*

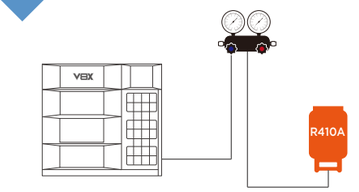
Compared to manual refrigerant charging, automatic refrigerant charging greatly simplifies the process, making installation and maintenance easier and more efficient.

Manual refrigerant charging

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

Automatic refrigerant charging

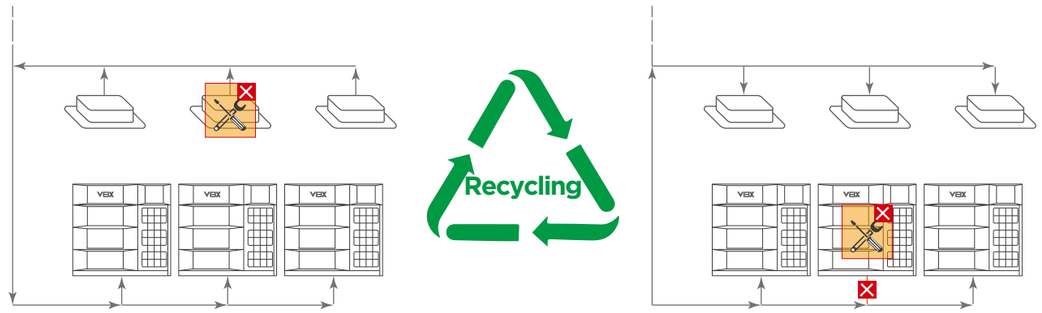
1. Connect refrigerant tank to the outdoor unit & activate automatic charging function
2. Close the shut-off valve automatically & finish filling process



*This function is available as a customization option.

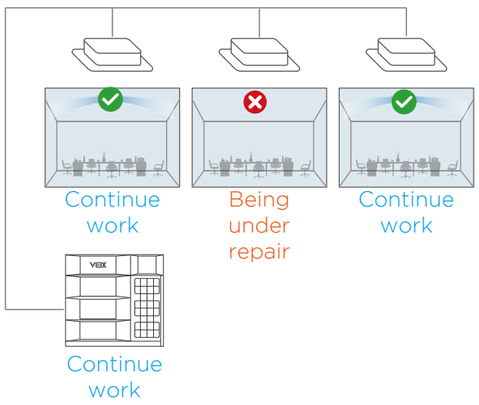
Automatic Refrigerant Recycling

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 easier and more efficient.



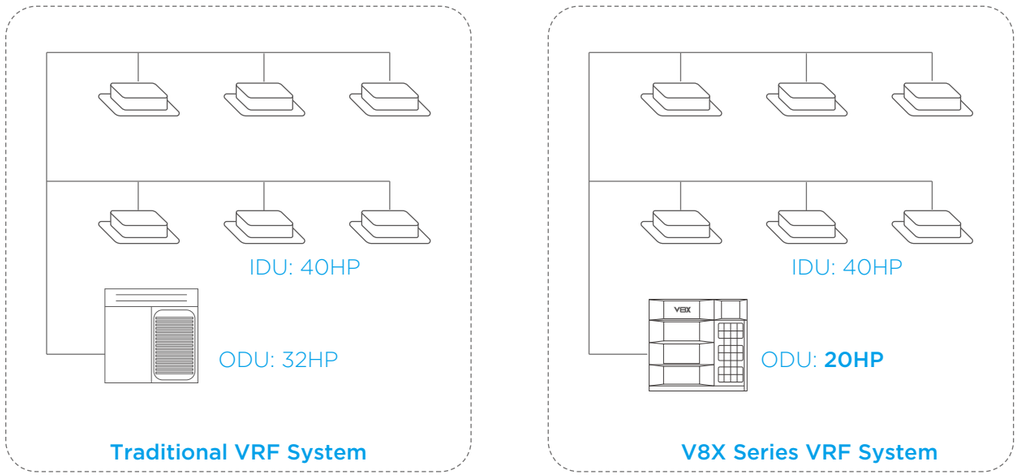
Maintenance Mode

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 maintenance period as the remaining indoor units continue to operate.



Wide Combination Ratio*

Compared to traditional VRF with combination ratio of 50-130%, the V8X 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 customization option.

Easy Software Program Upgrade

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

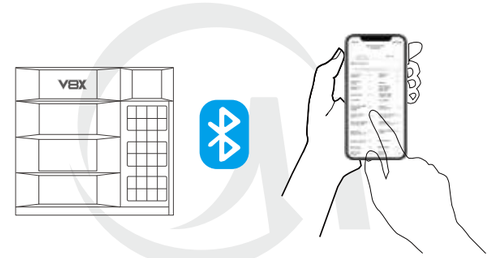
*The data cloud gateway is still under development and needs to be purchased separately.

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.

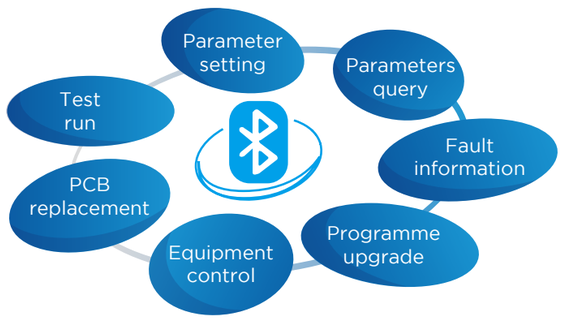
Useful in the following situations:

- 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



Specifications

V8X (Combinable series)

HP			8	10	12	14
Model			MV8X-252WV2GN1(PRO)	MV8X-280WV2GN1(PRO)	MV8X-335WV2GN1(PRO)	MV8X-400WV2GN1(PRO)
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	25.2	28	33.5	40
		kBtu/h	86.0	95.5	114.3	136.5
	Power input	kW	5.3	6.5	7.8	9.8
	EER		4.76	4.32	4.29	4.10
Heating[2]	Capacity	kW	27	31.5	37.5	45
		kBtu/h	92.1	107.5	128.0	153.5
	Power input	kW	5.0	6.2	7.8	9.5
	COP		5.39	5.11	4.80	4.72
Connected indoor unit	Total capacity		50-130%	50-130%	50-130%	50%-130%
	Maximum quantity		13	16	19	23
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		1	1	1	1
Fan motors	Type		DC	DC	DC	DC
	Quantity		1	1	1	1
	Airflow rate	m^3/h	12600	12600	13500	14400
	Static pressure	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	7	7	7	7
Pipe connections[3]	Liquid pipe	mm	Ø12.7	Ø12.7	Ø12.7	Ø12.7
	Gas pipe	mm	Ø25.4	Ø25.4	Ø25.4	Ø25.4
Sound pressure level[4]		dB(A)	56	57	59	59
Sound power level[4]		dB(A)	83	84	85	86
Net dimensions (W×H×D)		mm	940×1760×825	940×1760×825	940×1760×825	940×1760×825
Packed dimensions (W×H×D)		mm	1005×1945×890	1005×1945×890	1005×1945×890	1005×1945×890
Net weight		kg	195	195	197	197
Gross weight		kg	213	213	215	215
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

HP			16	18	20	22
Model			MV8X-450WV2GN1(PRO)	MV8X-500WV2GN1(PRO)	MV8X-560WV2GN1(PRO)	MV8X-615WV2GN1(PRO)
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	45	50	56	61.5
		kBtu/h	153.5	170.6	191.1	209.8
	Power input	kW	10.7	12.2	14.0	15.6
	EER		4.19	4.11	4.00	3.95
Heating[2]	Capacity	kW	50	56	63	69
		kBtu/h	170.6	191.1	215.0	235.4
	Power input	kW	10.7	12.8	14.4	16.6
	COP		4.66	4.39	4.37	4.15
Connected indoor unit	Total capacity		50-130%	50-130%	50-130%	50-130%
	Maximum quantity		26	29	33	36
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		1	1	1	2
Fan motors	Type		DC	DC	DC	DC
	Quantity		1	1	1	2
	Airflow rate	m^3/h	15600	15600	16500	22000
	Static pressure	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	8	8	8.4	9.3
Pipe connections[3]	Liquid pipe	mm	Ø15.9	Ø15.9	Ø15.9	Ø15.9
	Gas pipe	mm	Ø28.6	Ø28.6	Ø28.6	Ø28.6
Sound pressure level[4]		dB(A)	59	60	61	62
Sound power level4		dB(A)	86	88	89	89
Net dimensions (W×H×D)		mm	940×1760×825	940×1760×825	940×1760×825	1340×1760×825
Packed dimensions (W×H×D)		mm	1005×1945×890	1005×1945×890	1005×1945×890	1405×1945×890
Net weight		kg	213	213	215	295
Gross weight		kg	230	230	232	315
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			24	26	28	30
Model			MV8X-670WV2GN1(PRO)	MV8X-730WV2GN1(PRO)	MV8X-785WV2GN1(PRO)	MV8X-850WV2GN1(PRO)
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	67	73	78.5	85
		kBtu/h	228.6	249.1	267.9	290.0
	Power input	kW	17.9	18.8	20.6	22.4
	EER		3.75	3.89	3.81	3.79
Heating[2]	Capacity	kW	75	81.5	87.5	95
		kBtu/h	255.9	278.1	298.6	324.2
	Power input	kW	18.5	19.8	21.4	24.4
	COP		4.06	4.12	4.08	3.89
Connected indoor unit	Total capacity		50-130%	50-130%	50-130%	50-130%
	Maximum quantity		39	43	46	50
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		2	2	2	2
Fan motors	Type		DC	DC	DC	DC
	Quantity		2	2	2	2
	Airflow rate	m^3/h	22000	21500	21500	29000
	Static pressure	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	9.3	12	12	19
Pipe connections[3]	Liquid pipe	mm	Ø15.9	Ø15.9	Ø15.9	Ø22.2
	Gas pipe	mm	Ø28.6	Ø28.6	Ø28.6	Ø31.8
Sound pressure level[4]		dB(A)	62	62	62	63
Sound power level[4]		dB(A)	92	93	93	93
Net dimensions (W×H×D)		mm	1340×1760×825	1340×1760×825	1340×1760×825	1880×1760×825
Packed dimensions (W×H×D)		mm	1405×1945×890	1405×1945×890	1405×1945×890	1945×1945×890
Net weight		kg	295	315	315	373
Gross weight		kg	315	335	335	403
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

HP			32	34	36	38
Model			MV8X-900WV2GN1(PRO)	MV8X-950WV2GN1(PRO)	MV8X-1010WV2GN1(PRO)	MV8X-1060WV2GN1(PRO)
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	90	95.2	101	106
		kBtu/h	307.1	324.8	344.6	361.7
	Power input	kW	24.7	26.4	28.7	30.6
	EER		3.65	3.60	3.52	3.46
Heating[2]	Capacity	kW	100	106	112	119
		kBtu/h	341.2	361.7	382.2	406.0
	Power input	kW	26.2	28.3	30.7	33.1
	COP		3.81	3.74	3.65	3.60
Connected indoor unit	Total capacity		50-130%	50-130%	50-130%	50-130%
	Maximum quantity		53	56	59	62
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		2	2	2	2
Fan motors	Type		DC	DC	DC	DC
	Quantity		2	2	2	2
	Airflow rate	m^3/h	28000	28000	29000	29000
	Static pressure	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	21	21	21	21
Pipe connections[3]	Liquid pipe	mm	Ø22.2	Ø22.2	Ø22.2	Ø22.2
	Gas pipe	mm	Ø34.9	Ø34.9	Ø34.9	Ø34.9
Sound pressure level[4]		dB(A)	64	64	66	66
Sound power level[4]		dB(A)	93	94	94	94
Net dimensions (W×H×D)		mm	1880×1760×825	1880×1760×825	1880×1760×825	1880×1760×825
Packed dimensions (W×H×D)		mm	1945×1945×890	1945×1945×890	1945×1945×890	1945×1945×890
Net weight		kg	405	405	408	408
Gross weight		kg	435	435	438	438
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			40	42	44	46
Model (Combination unit)			MV8X-1115WV2GN1(PRO)	MV8X-1170WV2GN1(PRO)	MV8X-1230WV2GN1(PRO)	MV8X-1285WV2GN1(PRO)
Combination type			18HP+22HP	18HP+24HP	18HP+26HP	18HP+28HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	111.5	117.0	123.0	128.5
		kBtu/h	380.4	399.2	419.7	438.5
	Power input	kW	27.8	30.1	31.0	32.8
	EER		4.01	3.89	3.97	3.92
Heating[2]	Capacity	kW	125.0	131.0	137.5	143.5
		kBtu/h	426.5	447.0	469.2	489.7
	Power input	kW	29.4	31.3	32.6	34.2
	COP		4.25	4.19	4.22	4.20
Connected indoor unit	Total capacity		50-130%	50-130%	50-130%	50-130%
	Maximum quantity		64			
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		3	3	3	3
Fan motors	Type		DC	DC	DC	DC
	Quantity		3	3	3	3
	Airflow rate	m^3/h	37600	37600	37100	37100
	Static pressure	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	8+9.3	8+9.3	8+12	8+12
Pipe connections[3]	Liquid pipe	mm	Ø19.1			
	Gas pipe	mm	Ø38.1			
Sound pressure level[4]		dB(A)	64			
Sound power level[4]		dB(A)	92	94	94	94
Net dimensions (W×H×D)		mm	(940×1760×825)+ (1340×1760×825)	(940×1760×825)+ (1340×1760×825)	(940×1760×825)+ (1340×1760×825)	(940×1760×825)+ (1340×1760×825)
Packed dimensions (W×H×D)		mm	(1005×1945×890)+ (1405×1945×890)	(1005×1945×890)+ (1405×1945×890)	(1005×1945×890)+ (1405×1945×890)	(1005×1945×890)+ (1405×1945×890)
Net weight		kg	213+295	213+295	213+315	213+315
Gross weight		kg	230+315	230+315	230+335	230+335
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

HP			48	50	52	54
Model (Combination unit)			MV8X-1350WV2GN1(PRO)	MV8X-1400WV2GN1(PRO)	MV8X-1455WV2GN1(PRO)	MV8X-1510WV2GN1(PRO)
Combination type			18HP+30HP	24HP+26HP	24HP+28HP	16HP+38HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	135.0	140.0	145.5	151.0
		kBtu/h	460.6	477.7	496.5	515.2
	Power input	kW	34.6	36.7	38.5	41.3
	EER		3.90	3.81	3.78	3.66
Heating[2]	Capacity	kW	151.0	156.5	162.5	169.0
		kBtu/h	515.3	534.0	554.5	576.6
	Power input	kW	37.2	38.3	39.9	43.8
	COP		4.06	4.09	4.07	3.86
Connected indoor unit	Total capacity		50-130%	50-130%	50-130%	50-130%
	Maximum quantity		64			
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		3	4	4	3
Fan motors	Type		DC	DC	DC	DC
	Quantity		3	4	4	3
	Airflow rate	m^3/h	44600	43500	43500	44600
	Static pressure	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	8+19	9.3+12	9.3+12	8+21
Pipe connections[3]	Liquid pipe	mm	Ø19.1			
	Gas pipe	mm	Ø38.1			
Sound pressure level[4]		dB(A)	65			67
Sound power level[4]		dB(A)	94	96	96	95
Net dimensions (W×H×D)		mm	(940×1760×825)+ (1880×1760×825)	(1340×1760×825)×2	(1340×1760×825)×2	(940×1760×825)+ (1880×1760×825)
Packed dimensions (W×H×D)		mm	(1005×1945×890)+ (1945×1945×890)	(1405×1945×890)×2	(1405×1945×890)×2	(1005×1945×890)+ (1945×1945×890)
Net weight		kg	213+373	295+315	295+315	213+408
Gross weight		kg	230+403	315+335	315+335	230+438
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V8X Series Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			56	58	60	62
Model (Combination unit)			MV8X-1560WV2GN1(PRO)	MV8X-1620WV2GN1(PRO)	MV8X-1675WV2GN1(PRO)	MV8X-1730WV2GN1(PRO)
Combination type			18HP+38HP	20HP+38HP	22HP+38HP	24HP+38HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	156.0	162.0	167.5	173.0
		kBtu/h	532.3	552.8	571.5	590.3
	Power input	kW	42.8	44.6	46.2	48.5
	EER		3.64	3.63	3.63	3.57
Heating[2]	Capacity	kW	175.0	182.0	188.0	194.0
		kBtu/h	597.1	621.0	641.4	661.9
	Power input	kW	45.9	47.5	49.7	51.6
	COP		3.81	3.83	3.78	3.76
Connected indoor unit	Total capacity		50-130%	50-130%	50-130%	50-130%
	Maximum quantity		64			
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		3	3	4	4
Fan motors	Type		DC	DC	DC	DC
	Quantity		3	3	4	4
	Airflow rate	m^3/h	44600	45500	51000	51000
	Static pressure	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	8+21	8.4+21	9.3+21	9.3+21
Pipe connections[3]	Liquid pipe	mm	Ø19.1			
	Gas pipe	mm	Ø41.3			
Sound pressure level[4]		dB(A)	67	67	68	68
Sound power level[4]		dB(A)	95	95	95	96
Net dimensions (W×H×D)		mm	(940×1760×825)+ (1880×1760×825)	(940×1760×825)+ (1880×1760×825)	(1340×1760×825)+ (1880×1760×825)	(1340×1760×825)+ (1880×1760×825)
Packed dimensions (W×H×D)		mm	(1005×1945×890)+ (1945×1945×890)	(1005×1945×890)+ (1945×1945×890)	(1405×1945×890)+ (1945×1945×890)	(1405×1945×890)+ (1945×1945×890)
Net weight		kg	213+408	215+408	295+408	295+408
Gross weight		kg	230+438	232+438	315+438	315+438
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

HP			64	66	68	70
Model (Combination unit)			MV8X-1790WV2GN1(PRO)	MV8X-1845WV2GN1(PRO)	MV8X-1910WV2GN1(PRO)	MV8X-1960WV2GN1(PRO)
Combination type			26HP+38HP	28HP+38HP	30HP+38HP	32HP+38HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	179.0	184.5	191.0	196.0
		kBtu/h	610.8	629.6	651.7	668.8
	Power input	kW	49.4	51.2	53.0	55.3
	EER		3.62	3.60	3.60	3.54
Heating[2]	Capacity	kW	200.5	206.5	214.0	219.0
		kBtu/h	684.1	704.6	730.2	747.2
	Power input	kW	52.9	54.5	57.5	59.3
	COP		3.79	3.79	3.72	3.69
Connected indoor unit	Total capacity		50-130%	50-130%	50-130%	50-130%
	Maximum quantity		64			
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		4	4	4	4
Fan motors	Type		DC	DC	DC	DC
	Quantity		4	4	4	4
	Airflow rate	m^3/h	50500	50500	58000	57000
	Static pressure	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	12+21	12+21	19+21	21×2
Pipe connections[3]	Liquid pipe	mm	Ø19.1		Ø22.2	
	Gas pipe	mm	Ø41.3		Ø44.5	
Sound pressure level[4]		dB(A)	68	68	68	68
Sound power level[4]		dB(A)	97	97	97	97
Net dimensions (W×H×D)		mm	(1340×1760×825)+ (1880×1760×825)	(1340×1760×825)+ (1880×1760×825)	(1880×1760×825)×2	(1880×1760×825)×2
Packed dimensions (W×H×D)		mm	(1405×1945×890)+ (1945×1945×890)	(1405×1945×890)+ (1945×1945×890)	(1945×1945×890)×2	(1945×1945×890)×2
Net weight		kg	315+408	315+408	373+408	
Gross weight		kg	335+438	335+438	403+438	
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V8X Series Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			72	74	76	78
Model (Combination unit)			MV8X-2010WV2GN1(PRO)	MV8X-2070WV2GN1(PRO)	MV8X-2120WV2GN1(PRO)	MV8X-2175WV2GN1(PRO)
Combination type			34HP+38HP	36HP+38HP	38HP+38HP	18HP+22HP+38HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	201.2	207.0	212.0	217.5
		kBtu/h	686.5	706.3	723.4	742.1
	Power input	kW	57.0	59.3	61.2	58.4
	EER		3.53	3.49	3.46	3.72
Heating[2]	Capacity	kW	225.0	231.0	238.0	244.0
		kBtu/h	767.7	788.2	812.0	832.5
	Power input	kW	61.4	63.8	66.2	62.5
	COP		3.66	3.62	3.60	3.90
Connected indoor unit	Total capacity		50-130%	50-130%	50-130%	50-130%
	Maximum quantity		64			
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		4	4	4	5
Fan motors	Type		DC	DC	DC	DC
	Quantity		4	4	4	5
	Airflow rate	m^3/h	57000	58000	58000	66600
	Static pressure	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	21×2	21×2	21×2	8+9.3+21
Pipe connections[3]	Liquid pipe	mm	Ø22.2			
	Gas pipe	mm	Ø44.5			
Sound pressure level[4]		dB(A)	68	69	69	68
Sound power level[4]		dB(A)	97	97	97	96
Net dimensions (W×H×D)		mm	(1880×1760×825)×2	(1880×1760×825)×2	(1880×1760×825)×2	(940×1760×825)+(1340×1760×825)+(1880×1760×825)
Packed dimensions (W×H×D)		mm	(1945×1945×890)×2	(1945×1945×890)×2	(1945×1945×890)×2	(1005×1945×890)+(1405×1945×890)+(1945×1945×890)
Net weight		kg	405+408		408×2	213+295+408
Gross weight		kg	435+438		438×2	230+315+438
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

HP			80	82	84	86
Model (Combination unit)			MV8X-2230WV2GN1(PRO)	MV8X-2290WV2GN1(PRO)	MV8X-2345WV2GN1(PRO)	MV8X-2410WV2GN1(PRO)
Combination type			18HP+24HP+38HP	18HP+26HP+38HP	18HP+28HP+38HP	20HP+28HP+38HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	223.0	229.0	234.5	241.0
		kBtu/h	760.9	781.4	800.2	822.3
	Power input	kW	60.7	61.6	63.4	65.2
	EER		3.67	3.72	3.70	3.70
Heating[2]	Capacity	kW	250.0	256.5	262.5	270.0
		kBtu/h	853.0	875.2	895.7	921.3
	Power input	kW	64.4	65.7	67.3	70.3
	COP		3.88	3.90	3.90	3.84
Connected indoor unit	Total capacity		50-130%	50-130%	50-130%	50-130%
	Maximum quantity		64			
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		5	5	5	5
Fan motors	Type		DC	DC	DC	DC
	Quantity		5	5	5	5
	Airflow rate	m^3/h	66600	66100	66100	73600
	Static pressure	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	8+9.3+21	8+12+21	8+12+21	8+19+21
Pipe connections[3]	Liquid pipe	mm	Ø22.2		Ø25.4	
	Gas pipe	mm	Ø44.5		Ø50.8	
Sound pressure level[4]		dB(A)	68			
Sound power level[4]		dB(A)	97	97	97	97
Net dimensions (W×H×D)		mm	(940×1760×825)+(1340×1760×825)+(1880×1760×825)	(940×1760×825)+(1340×1760×825)+(1880×1760×825)	(940×1760×825)+(1340×1760×825)+(1880×1760×825)	(940×1760×825)+(1880×1760×825)×2
Packed dimensions (W×H×D)		mm	(1005×1945×890)+(1405×1945×890)+(1945×1945×890)	(1005×1945×890)+(1405×1945×890)+(1945×1945×890)	(1005×1945×890)+(1405×1945×890)+(1945×1945×890)	(1005×1945×890)+(1945×1945×890)×2
Net weight		kg	213+295+408	213+315+408	213+315+408	213+373+408
Gross weight		kg	230+315+438	230+335+438	230+335+438	230+403+438
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V8X Series Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			88	90	92	94
Model (Combination unit)			MV8X-2460WV2GN1(PRO)	MV8X-2515WV2GN1(PRO)	MV8X-2570WV2GN1(PRO)	MV8X-2620WV2GN1(PRO)
Combination type			24HP+26HP+38HP	24HP+28HP+38HP	16HP+38HP+38HP	18HP+38HP+38HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	246.0	251.5	257.0	262.0
		kBtu/h	839.4	858.2	876.9	894.0
	Power input	kW	67.3	69.1	71.9	73.4
	EER		3.66	3.64	3.57	3.57
Heating[2]	Capacity	kW	275.5	281.5	288.0	294.0
		kBtu/h	940.0	960.5	982.6	1003.1
	Power input	kW	71.4	73.0	76.9	79.0
	COP		3.86	3.86	3.75	3.72
Connected indoor unit	Total capacity		50-130%	50-130%	50-130%	50-130%
	Maximum quantity		64			
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		6	6	5	5
Fan motors	Type		DC	DC	DC	DC
	Quantity		6	6	5	5
	Airflow rate	m^3/h	72500	72500	73600	73600
	Static pressure	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	9.3+12+21	9.3+12+21	8+21×2	8+21×2
Pipe connections[3]	Liquid pipe	mm	Ø25.4		Ø25.4	
	Gas pipe	mm	Ø50.8		Ø50.8	
Sound pressure level[4]		dB(A)	69	69	69	70
Sound power level[4]		dB(A)	98	98	97	98
Net dimensions (W×H×D)		mm	(1340×1760×825)×2+(1880×1760×825)	(1340×1760×825)×2+(1880×1760×825)	(940×1760×825)+(1880×1760×825)×2	(940×1760×825)+(1880×1760×825)×2
Packed dimensions (W×H×D)		mm	(1405×1945×890)×2+(1945×1945×890)	(1405×1945×890)×2+(1945×1945×890)	(1005×1945×890)+(1945×1945×890)×2	(1005×1945×890)+(1945×1945×890)×2
Net weight		kg	295+315+408	295+315+408	213+408×2	213+408×2
Gross weight		kg	315+335+438	315+335+438	230+438×2	230+438×2
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

HP			96	98	100	102
Model (Combination unit)			MV8X-2680WV2GN1(PRO)	MV8X-2735WV2GN1(PRO)	MV8X-2790WV2GN1(PRO)	MV8X-2850WV2GN1(PRO)
Combination type			20HP+38HP+38HP	22HP+38HP+38HP	24HP+38HP+38HP	26HP+38HP+38HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	268.0	273.5	279.0	285.0
		kBtu/h	914.5	933.2	952.0	972.5
	Power input	kW	75.2	76.8	79.1	80.0
	EER		3.56	3.56	3.53	3.56
Heating[2]	Capacity	kW	301.0	307.0	313.0	319.5
		kBtu/h	1027.0	1047.4	1067.9	1090.1
	Power input	kW	80.6	82.8	84.7	86.0
	COP		3.73	3.71	3.70	3.72
Connected indoor unit	Total capacity		50-130%	50-130%	50-130%	50-130%
	Maximum quantity		64			
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		5	6	6	6
Fan motors	Type		DC	DC	DC	DC
	Quantity		5	6	6	6
	Airflow rate	m^3/h	74500	80000	80000	79500
	Static pressure	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	8.4+21×2	9.3+21×2	9.3+21×2	12+21×2
Pipe connections[3]	Liquid pipe	mm	Ø25.4		Ø25.4	
	Gas pipe	mm	Ø50.8		Ø50.8	
Sound pressure level[4]		dB(A)	70			
Sound power level[4]		dB(A)	98	98	98	99
Net dimensions (W×H×D)		mm	(940×1760×825)+(1880×1760×825)×2	(1340×1760×825)+(1880×1760×825)×2	(1340×1760×825)+(1880×1760×825)×2	(1340×1760×825)+(1880×1760×825)×2
Packed dimensions (W×H×D)		mm	(1005×1945×890)+(1945×1945×890)×2	(1405×1945×890)+(1945×1945×890)×2	(1405×1945×890)+(1945×1945×890)×2	(1405×1945×890)+(1945×1945×890)×2
Net weight		kg	215+408×2	295+408×2	295+408×2	315+408×2
Gross weight		kg	232+438×2	315+438×2	315+438×2	335+438×2
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V8X Series Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			104	106	108
Model (Combination unit)			MV8X-2905WV2GN1(PRO)	MV8X-2970WV2GN1(PRO)	MV8X-3020WV2GN1(PRO)
Combination type			28HP+38HP+38HP	30HP+38HP+38HP	34HP+36HP+38HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	290.5	297.0	302.0
		kBtu/h	991.3	1013.4	1030.5
	Power input	kW	81.8	83.6	85.7
	EER		3.55	3.55	3.52
Heating[2]	Capacity	kW	325.5	333.0	337.0
		kBtu/h	1110.6	1136.2	1149.9
	Power input	kW	87.6	90.6	92.1
	COP		3.72	3.68	3.66
Connected indoor unit	Total capacity		50-130%	50-130%	50-130%
	Maximum quantity		64		
Compressors	Type		DC inverter	DC inverter	DC inverter
	Quantity		6	6	6
Fan motors	Type		DC	DC	DC
	Quantity		6	6	6
	Airflow rate	m^3/h	79500	87000	86000
	Static pressure	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	12+21×2	19+21×2	21×3
Pipe connections[3]	Liquid pipe	mm	Ø25.4		Ø25.4
	Gas pipe	mm	Ø50.8		Ø50.8
Sound pressure level[4]		dB(A)	70		
Sound power level[4]		dB(A)	99	99	99
Net dimensions (W×H×D)		mm	(1340×1760×825)+ (1880×1760×825)×2	(1880×1760×825)×3	(1880×1760×825)×3
Packed dimensions (W×H×D)		mm	(1405×1945×890)+ (1945×1945×890)×2	(1945×1945×890)×3	(1945×1945×890)×3
Net weight		kg	315+408×2	373+408×2	405+408×2
Gross weight		kg	335+438×2	403+438×2	435+438×2
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 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V8X Series Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			110	112	114
Model (Combination unit)			MV8X-3070WV2GN1(PRO)	MV8X-3130WV2GN1(PRO)	MV8X-3180WV2GN1(PRO)
Combination type			34HP+38HP+38HP	36HP+38HP+38HP	38HP+38HP+38HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	307.2	313.0	318.0
		kBtu/h	1048.2	1068.0	1085.1
	Power input	kW	87.6	89.9	91.8
	EER		3.50	3.48	3.46
Heating[2]	Capacity	kW	344.0	350.0	357.0
		kBtu/h	1173.7	1194.2	1218.0
	Power input	kW	94.5	96.9	99.3
	COP		3.64	3.61	3.60
Connected indoor unit	Total capacity		50-130%	50-130%	50-130%
	Maximum quantity		64		
Compressors	Type		DC inverter	DC inverter	DC inverter
	Quantity		6	6	6
Fan motors	Type		DC	DC	DC
	Quantity		6	6	6
	Airflow rate	m^3/h	86000	87000	87000
	Static pressure	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	21×3	21×3	21×3
Pipe connections[3]	Liquid pipe	mm	Ø28.6	Ø28.6	Ø28.6
	Gas pipe	mm	Ø54.0	Ø54.0	Ø54.0
Sound pressure level[4]		dB(A)	70		
Sound power level[4]		dB(A)	99	99	99
Net dimensions (W×H×D)		mm	(1880×1760×825)×3	(1880×1760×825)×3	(1880×1760×825)×3
Packed dimensions (W×H×D)		mm	(1945×1945×890)×3	(1945×1945×890)×3	(1945×1945×890)×3
Net weight		kg	405+408×2	408×3	408×3
Gross weight		kg	435+438×2	438×3	438×3
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 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V8X Series Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

V8Xi (Individual series)

HP			8	10	12	14
Model			MV8Xi-252WV2GN1(PRO)	MV8Xi-280WV2GN1(PRO)	MV8Xi-335WV2GN1(PRO)	MV8Xi-400WV2GN1(PRO)
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	25.2	28.0	33.5	40.0
		kBtu/h	86.0	95.5	114.3	136.5
	Power input	kW	5.7	7.4	8.9	10.9
	EER		4.41	3.80	3.75	3.66
Heating[2]	Capacity	kW	27.0	31.5	37.5	45.0
		kBtu/h	92.1	107.5	128.0	153.5
	Power input	kW	5.4	6.7	8.2	10.7
	COP		4.98	4.72	4.57	4.19
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%	50%-130%
	Maximum quantity		13	16	19	23
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		1	1	1	1
Fan motors	Type		DC	DC	DC	DC
	Quantity		1	1	1	1
	Airflow rate	m^3/h	12600	12600	13500	14400
	Static pressure	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	7	7	7	7
Pipe connections[3]	Liquid pipe	mm	Ø12.7	Ø12.7	Ø12.7	Ø12.7
	Gas pipe	mm	Ø25.4	Ø25.4	Ø25.4	Ø25.4
Sound pressure level[4]		dB(A)	56	57	59	59
Sound power level[4]		dB(A)	83	84	85	86
Net dimensions (W×H×D)		mm	940×1760×825	940×1760×825	940×1760×825	940×1760×825
Packed dimensions (W×H×D)		mm	1005×1945×890	1005×1945×890	1005×1945×890	1005×1945×890
Net weight		kg	195	195	197	197
Gross weight		kg	213	213	215	215
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

HP			16	18	20	22
Model			MV8Xi-450WV2GN1(PRO)	MV8Xi-500WV2GN1(PRO)	MVXi-560WV2GN1(PRO)	MV8Xi-615WV2GN1(PRO)
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	45.0	50.0	56.0	61.5
		kBtu/h	153.5	170.6	191.1	209.8
	Power input	kW	12.8	14.7	16.7	18.8
	EER		3.52	3.41	3.35	3.27
Heating[2]	Capacity	kW	50.0	56.0	63.0	69.0
		kBtu/h	170.6	191.1	215.0	235.4
	Power input	kW	11.7	13.7	16.0	17.4
	COP		4.26	4.09	3.94	3.96
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%	50%-130%
	Maximum quantity		26	29	33	36
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		1	1	1	2
Fan motors	Type		DC	DC	DC	DC
	Quantity		1	1	1	2
	Airflow rate	m^3/h	15600	15600	16500	22000
	Static pressure	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	8	8	8.4	9.3
Pipe connections[3]	Liquid pipe	mm	Ø15.9	Ø15.9	Ø15.9	Ø15.9
	Gas pipe	mm	Ø28.6	Ø28.6	Ø28.6	Ø28.6
Sound pressure level[4]		dB(A)	60	61	62	62
Sound power level[4]		dB(A)	86	88	89	89
Net dimensions (W×H×D)		mm	940×1760×825	940×1760×825	1340×1760×825	1340×1760×825
Packed dimensions (W×H×D)		mm	1005×1945×890	1005×1945×890	1405×1945×890	1405×1945×890
Net weight		kg	213	213	215	295
Gross weight		kg	230	230	232	315
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

HP			24	26	28	30
Model			MV8Xi-670WV2GN1(PRO)	MV8Xi-730WV2GN1(PRO)	MV8Xi-785WV2GN1(PRO)	MV8Xi-850WV2GN1(PRO)
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	67.0	73.0	78.5	85.0
		kBtu/h	228.6	249.1	267.9	290.0
	Power input	kW	20.9	22.4	24.0	26.5
	EER		3.20	3.26	3.27	3.21
Heating[2]	Capacity	kW	75.0	81.5	87.5	95.0
		kBtu/h	255.9	278.1	298.6	324.2
	Power input	kW	19.6	21.5	23.6	26.4
	COP		3.83	3.79	3.71	3.60
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%	50%-130%
	Maximum quantity		39	43	46	50
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		2	2	2	2
Fan motors	Type		DC	DC	DC	DC
	Quantity		2	2	2	2
	Airflow rate	m^3/h	22000	21500	21500	29000
	Static pressure	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	9.3	12	12	19
Pipe connections[3]	Liquid pipe	mm	Ø15.9	Ø15.9	Ø15.9	Ø22.2
	Gas pipe	mm	Ø28.6	Ø28.6	Ø28.6	Ø31.8
Sound pressure level[4]		dB(A)	62	62	63	64
Sound power level[4]		dB(A)	92	93	93	93
Net dimensions (W×H×D)		mm	1340×1760×825	1340×1760×825	1880×1760×825	1880×1760×825
Packed dimensions (W×H×D)		mm	1405×1945×890	1405×1945×890	1945×1945×890	1945×1945×890
Net weight		kg	295	315	315	373
Gross weight		kg	315	335	335	403
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

HP			32	34	36	38
Model			MV8Xi-900WV2GN1(PRO)	MV8Xi-950WV2GN1(PRO)	MV8Xi-1010WV2GN1(PRO)	MV8Xi-1060WV2GN1(PRO)
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	90.0	95.2	101.0	106.0
		kBtu/h	307.1	324.8	344.6	361.7
	Power input	kW	28.2	30.5	32.8	35.2
	EER		3.19	3.12	3.08	3.01
Heating[2]	Capacity	kW	100.0	106.0	112.0	119.0
		kBtu/h	341.2	361.7	382.2	406.0
	Power input	kW	28.7	31.8	34.5	37.9
	COP		3.49	3.33	3.25	3.14
Connected indoor unit	Total capacity		50%-130%	50%-130%	50%-130%	50%-130%
	Maximum quantity		53	56	59	62
Compressors	Type		DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		2	2	2	2
Fan motors	Type		DC	DC	DC	DC
	Quantity		2	2	2	2
	Airflow rate	m^3/h	28000	28000	29000	29000
	Static pressure	Pa	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)	0-20 (standard) 20-120 (customized)
Refrigerant	Type		R410A	R410A	R410A	R410A
	Factory charge	kg	21	21	21	21
Pipe connections[3]	Liquid pipe	mm	Ø22.2	Ø22.2	Ø22.2	Ø22.2
	Gas pipe	mm	Ø34.9	Ø34.9	Ø34.9	Ø34.9
Sound pressure level[4]		dB(A)	64	66	66	67
Sound power level[4]		dB(A)	93	94	94	94
Net dimensions (W×H×D)		mm	1880×1760×825	1880×1760×825	1880×1760×825	1880×1760×825
Packed dimensions (W×H×D)		mm	1945×1945×890	1945×1945×890	1945×1945×890	1945×1945×890
Net weight		kg	405	405	408	408
Gross weight		kg	435	435	438	438
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

C-VCMAX202309

Midea

Catalogue

VC MAX Series VRF

COOLING ONLY

SMART IN ONE

Midea Building Technologies Division

Midea Group

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Postal code: 528311

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Quality Assurance ISO 9001

Environmental Management ISO 14001

Occupational Health and Safety Management ISO 45001

OUTDOOR UNITS

VC MAX

Outdoor Unit Lineup

VC MAX (Combinable series)

Single Unit

8-20HP	22-30HP
	

Combined Unit

32-60HP


62-90HP


Outdoor Unit Functions

Functions ●: equipped as standard; O: customization option			VC MAX
Innovative Technologies	HyperLink	Midea original communication bus chip greatly simplifies installation and saves installation costs	●
	ShieldBox	IP55 fully sealed electric control box realizes resisting all protects against intrusion and damage to the electric control box	●
	SuperSense	17 sensors monitor the state of each part of the refrigerant pipeline throughout the whole process	●
	Midea ETA 2.0	Triple variable control maximizes comfort and energy efficiency	●
	Zen Air 2.0	Provides comfort and healthy air supply	●
	Doctor M 2.0	Intelligent diagnostic technology makes maintenance easier and more efficient	●
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	●
	Micro-channel refrigerant subcooling	The refrigerant system can achieve 15°C refrigerant subcooling, which can further improve the refrigerant heat transfer efficiency while reducing noise	●
	Low standby power consumption	The standby power consumption is 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	Duty cycling (unit)	Equalizes the running time of the outdoor units in a multiple-unit system, significantly extending unit lifespan (available for combined units)	●
	Duty cycling (compressor)	Equalizes the running time of the compressor in each unit, significantly extending compressor lifespan (available for units with two compressors)	●
	Backup operation (unit)	If one unit fails, the other units provide backup so that the system can continue operating (available for combined units)	●
	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)	●
	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)	●
	Backup operation (sensor)	If one sensor fails, the virtual sensor provides backup so that the system can continue operating	●

Outdoor Unit Functions

Functions ●: equipped as standard; O: customization option			VC MAX
High Reliability	Precise oil control	Ensures all outdoor compressor oil is at a safe level, eliminating compressor oil shortages	●
	Heavy anti-corrosion protection	Can be customized with heavy anti-corrosion treatment for surface protection against corrosive air, acid rain and saline air (for installations in coastal regions) to extend overall useful life	○
	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	○
	Micro-channel refrigerant cooling PCB	10 times higher than ordinary refrigerant pipe cooling efficiency	●
	Auto dust-clean function	Blows away accumulated dust on the outdoor unit, guaranteeing stable unit operations in a dusty environment	●
	Resistant to magnitude 8 earthquakes	A reinforced frame footprint to prevent tipping and deformation damage in magnitude 8 earthquakes	○
	Resistant to violent typhoon	A reinforced trusses and double fastening for stable operation even under violent typhoon	○
	Alarm output	In the event of system malfunction, remotely output error information and remind maintenance personnel to conduct maintenance	○
	Fire alarm input	In the event of fire, receive fire information in time and stop the system immediately to avoid serious problems	●
Enhanced Comfort	Silent mode	15-step silent mode selections provide more freedom and convenience to match the needs of customers	●
	0.1 °C control precision	Control precision of the sensor can reach 0.1°C, ensuring less fluctuations in room temperature	●
Wide Application Range	Wide capacity range	Meets all customer requirements from small to large buildings	8-30HP (single) 32-90HP (combined)
	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	-15-55°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	●

Outdoor Unit Functions

Functions ●: equipped as standard; O: customization option			VC MAX
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	○
	Automatic refrigerant recycling	Refrigerant can be recycled to ODUs or IDUs and normal ODUs, 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.	○
	Digit display	4 digit 7-segment display can be intuitive for parameter setting, parameter checks and error checks	●
	High external static pressure	Up to 120Pa ESP allows easy handling in a variety of installation environments	0-20Pa ● 20-120Pa ○
	Arbitrary topology of communication wire	Supports any communication topology, greatly simplifies installation and reduces installation cost	●
	2-core non-polarity communication wiring between the indoor and outdoor units	Simplifies installation and reduces wiring failures	●
	Long communication wiring	Communication wiring up to 2000m makes installation more flexible	●
	Wide combination ratio	Combination ration can be extended to 50%-200% under certain conditions which can meet different project requirements	50-130% ● 50-200% (for single unit system) ○
	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	●
	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	●
	Intelligent maintenance tool	Intelligent bluetooth after-sales kit can simplify maintenance and improve maintenance efficiency	○

*Note: The web function needs to be realized through the data cloud gateway, and the data cloud gateway needs to be purchased separately.

INNOVATIVE
TECHNOLOGIES

HyperLink New & Unique

ShieldBox New & Unique

SuperSense New & Unique

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.

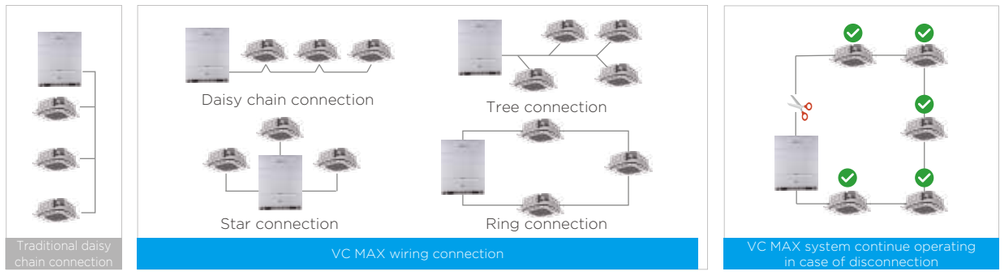
Benefits

- 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 an 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 wring is flexible, which greatly reduces installation costs and has no possibility of wrong connection on site.



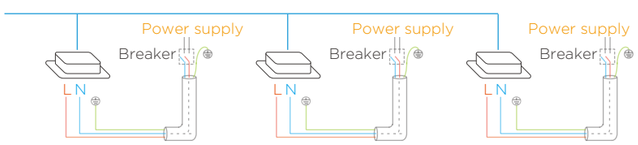
*In ring connection, the communication wire must be connected polarized (M1 port to M1 port and M2 port to M2 port).

Super Anti-interference Capability

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

Flexible Power Supply for Indoor Units

HyerLink '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.



ShieldBox

New & Unique

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


Anti-corrosion


Dustproof


Rain & snow proof


Insect proof

Benefits

- High reliability
- Stable operation

IP (INGRESS PROTECTION)

IP 55

Dustproof grade code
Prevent entry foreign objects and dust

Waterproof grade code
Prevent water spray in all directions

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

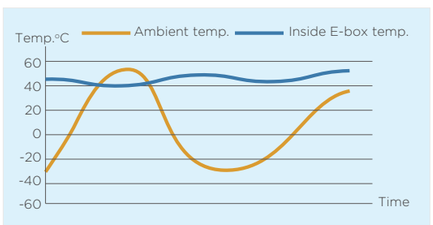
All electronic components including inverter module, filter module and power module are cooled by specially designed microchannel refrigerant to ensure that the electronic components work in the best temperature range.

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.

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

New & Unique

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

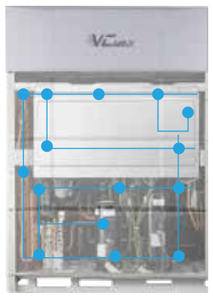
Benefits

- High reliability
- Stable operation
- Enhanced comfort

Up to 17 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.

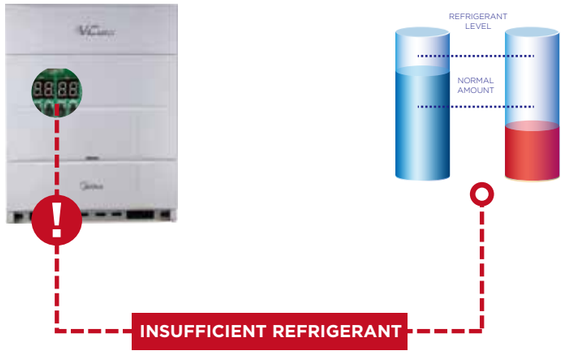
Complete Sensors

The VC MAS Series VRF is equipped with up to 17 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**.

Benefits

- 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%.

Variable Refrigerant Flow

STEP 1: Architectural space feature recognition

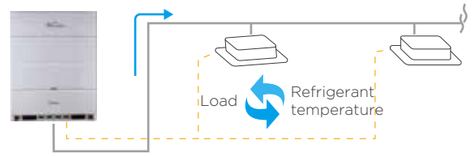
The indoor unit automatically recognizes the size of the building space and the effectiveness of the insulation according to the rate of temperature drop.

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

Variable Refrigerant Temperature

STEP 2: System refrigerant temperature determination

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

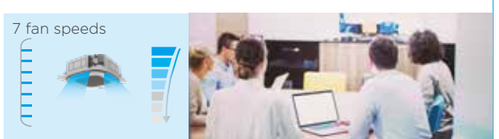


Automatic matching of the corresponding refrigerant temperature to the load.

Variable Indoor Airflow

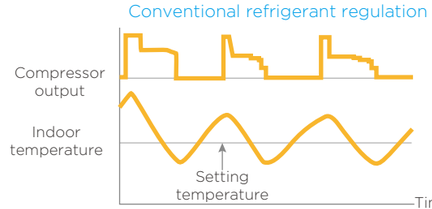
STEP 3: Adaptive indoor airflow and refrigerant flow

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

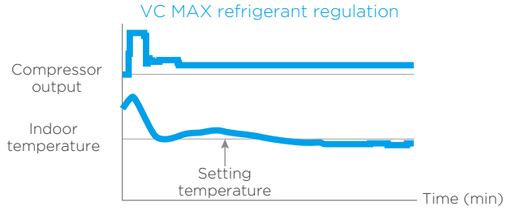


Automatic matching of the corresponding indoor airflow to the load and refrigerant temperature.

Conventional refrigerant regulation

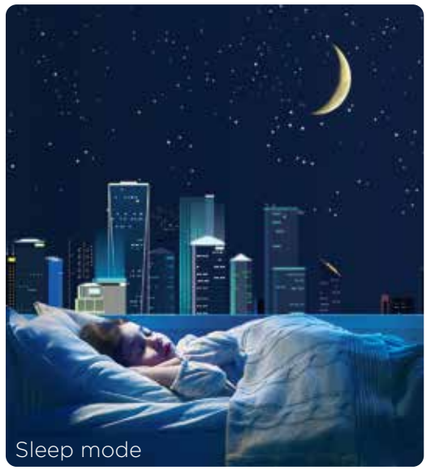


VC MAX refrigerant regulation



Zen Air 2.0

Further upgraded ZEN AIR technology to maximize **COMFORT**.



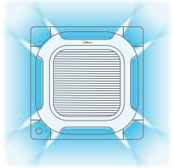
Benefits

- 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.

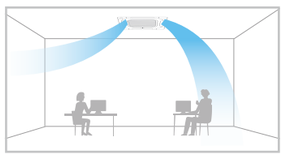


7 Fan Speeds

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

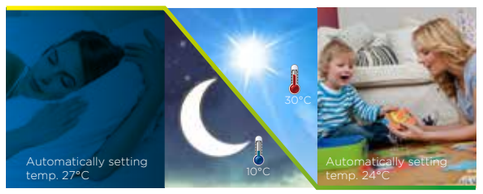
Individual Louver Control

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



Sleep Mode

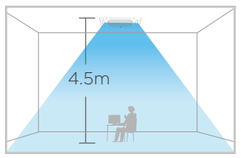
The smart sleep mode provides a comfortable sleep period and a refreshing wake up time.

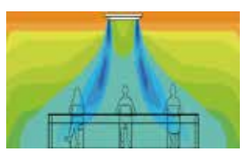


*The above temperatures are for reference only.

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

From Germany - OSRAM quality UV light source

Ozone –Free
UV leakage-Free

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

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

Cloud-based Big Data Analytics

Midea VC MAX 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.

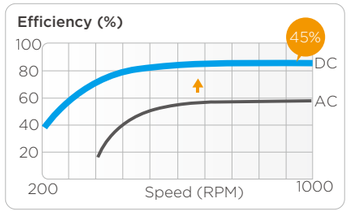
*The data cloud gateway needs to be purchased separately.

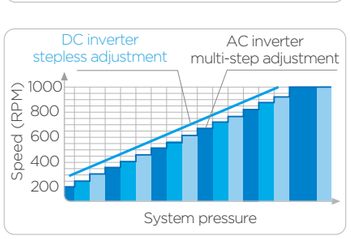
High Efficiency

Full DC Inverter Technology

Full DC Inverter for Outdoor Components

The VC MAX 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.





Wider frequency adjustment range

Faster cooling

Higher energy efficiency

Full DC Inverter for Indoor Components

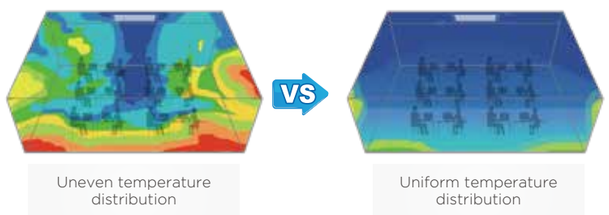
All power devices such as indoor fan motor, drain pump and electric control board are fully DC, which increases electrical efficiency by 20% and results in more accurate temperature control, a more constant indoor temperature and higher energy efficiency.

Fan motor

Drain pump

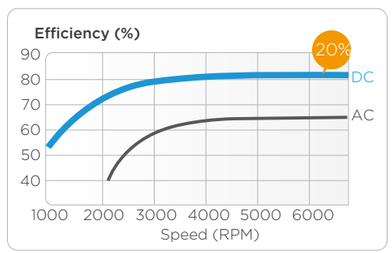
Electric control board

20%
Efficiency improvements



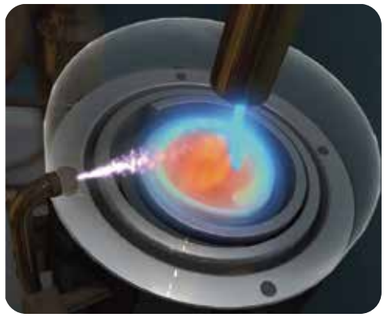
Uneven temperature distribution

Uniform temperature distribution



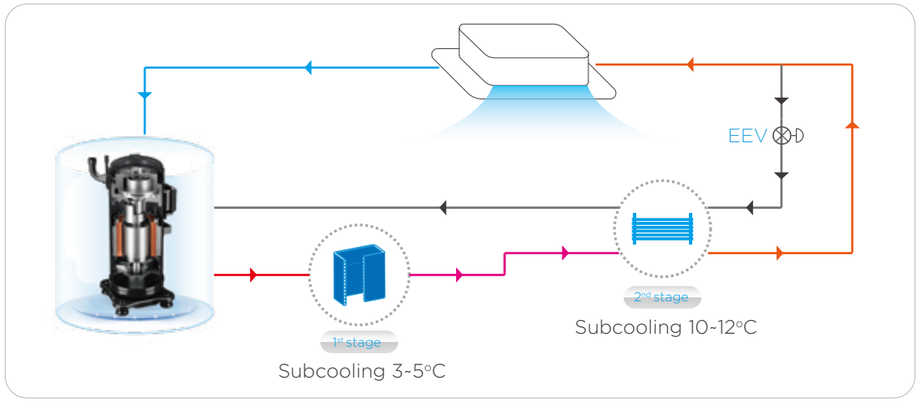
Enhanced Vapor Injection (EVI) Compressor

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



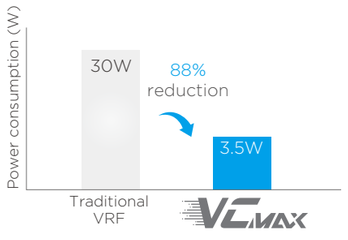
Advanced Subcooling Technology

The VC MAX 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.



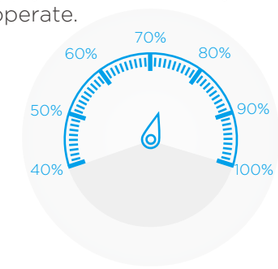
Low Standby Power Consumption

Compared to the standby power consumption of traditional VRF of about 30W, the VC MAX 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 VC MAX 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.

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.

In normal operation, each fan runs on demand

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

Operation compressor Failed compressor

Operation fan Failed 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

Continue operating in case of failure of one compressor

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

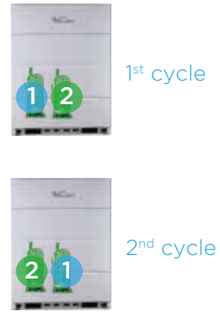
1 Unit Duty Cycling

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.



Compressor start-up sequence

ShieldBox

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

Anti-corrosion

Dustproof

Rain & snow proof

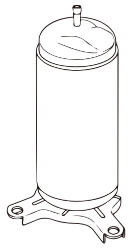
Insect proof

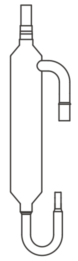
SuperSense

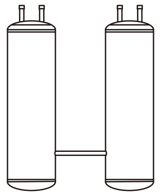
VC MAX Series VRF uses up to 17 sensors for each outdoor unit and 4 sensors for each indoor unit. The operating status of the system refrigerant is clearly visible, which can achieve intelligent analysis of operation parameters, intelligent error diagnosis and forecasting, and visualized energy saving.

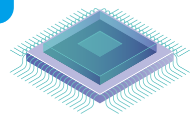
Precise Oil Control

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

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 
Oil balance pipes between gas-liquid separator ensure even oil distribution to keep compressors running normally.

4 
The automatic oil return program determines the oil return through the running time and the oil discharge amount, enabling precise oil return.

Heavy Anti-corrosion Protection*

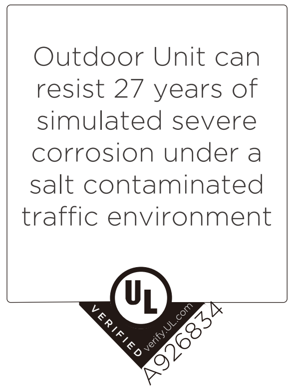
Standard outdoor units are given anti-corrosion treatment for non-extreme conditions and can also be customized with heavy anti-corrosion treatment on main components for surface protection against corrosive air, acid rain and saline air (for installations in coastal regions) to extend overall useful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

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

UL Anti-Corrosion Certificate*

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

*UL anti-corrosion certificate is available for heavy anti-corrosion treatment units.



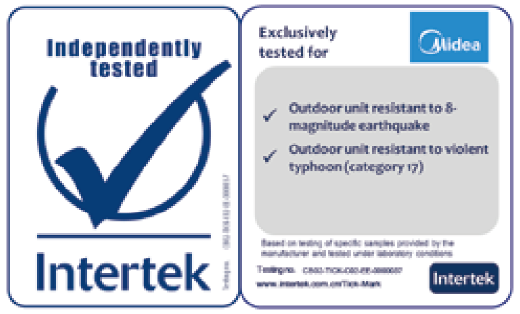
Auto Dust-clean Function

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

Resistant to Magnitude 8 Earthquakes*

The VC MAX Series VRF has a reinforced frame footprint to prevent tipping and deformation damage and can still operate normally in magnitude 8 earthquakes.

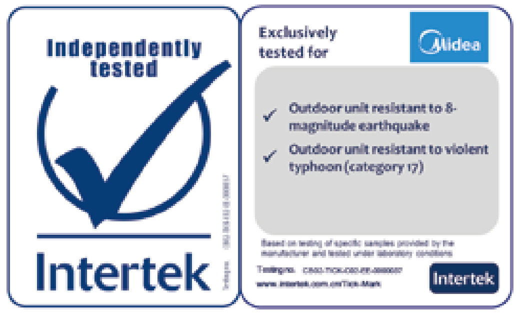
*This function is available as a customization option.



Resistant to Violent Typhoons*

The VC MAX Series VRF has reinforced trusses and double fastening for stable operation even under violent typhoons (Category 17).

*This function is available as a customization option.



Enhanced Comfort

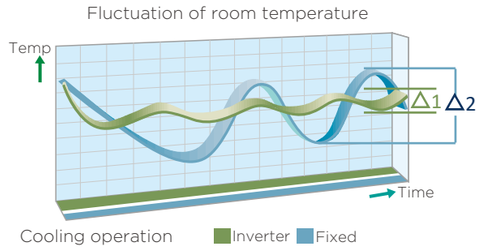
Advanced Silent Technology

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

15 silent options

Fast Cooling

Thanks to advanced full DC inverter technology, the system can quickly reach full load output, shorten cooling time, reduce temperature fluctuations, and create a more comfortable living environment.



Wide Application Range

Wide Capacity Range

The capacity of one VC MAX Series VRF system is from 8HP to 90HP with up to 3 units combined, perfectly suited for small to large buildings.

8-20HP

22-30HP

32-60HP

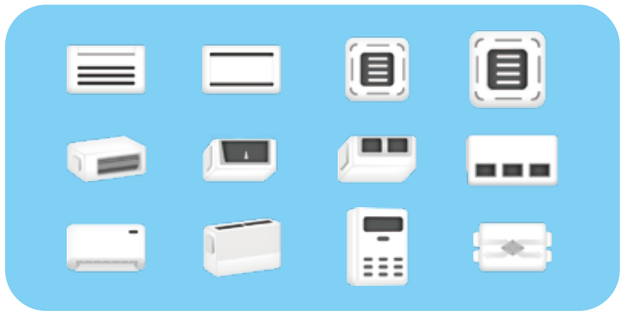
62-90HP

Wide Operation Range

Thanks to the refrigerant cooling technology, the VC MAX Series VRF can operate stably in a temperature range as low as -15°C and as high as 55°C.

Wide Range of Indoor Units

The VC MAX 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.



Long Piping Capability

The VC MAX 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 VC MAX Series VRF adaptable to a wide range of building designs.

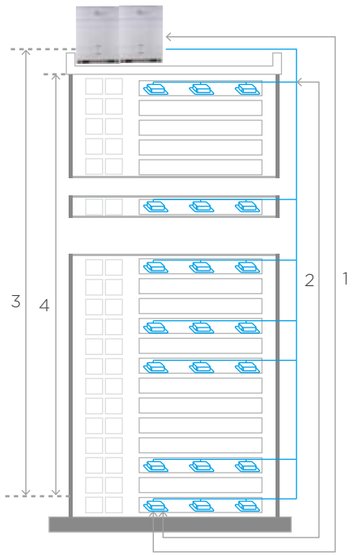
Total piping length: **1100m**
1 Longest piping length - actual (equivalent): **220(260)m**

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

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

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

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



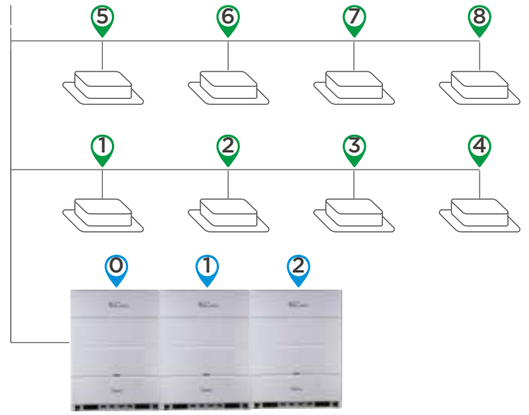
Easy Installation and Service

Free Wiring

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

Auto Addressing

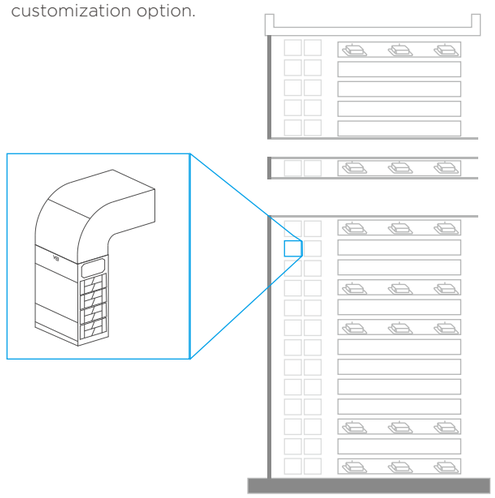
Addresses for all indoor units and combined outdoor units can be assigned automatically by the VC MAX system, further simplifying installation.



External Static Pressure up to 120Pa*

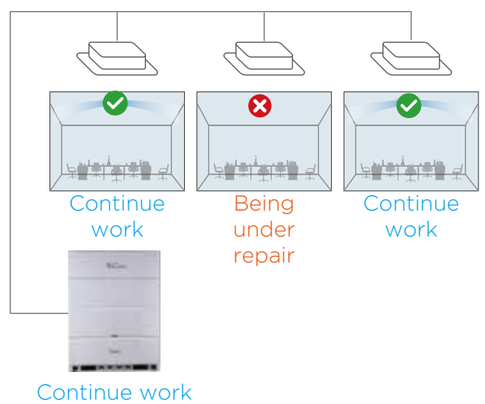
The static pressure of the outdoor unit can be up to 120Pa which facilitates installation of the unit on each floor of high-rise buildings or on balconies.

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



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*

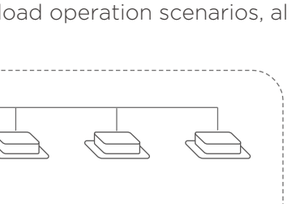
Compared to manual refrigerant charging, automatic refrigerant charging greatly simplifies the process, making installation and maintenance easier and more efficient.

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

Automatic refrigerant charging

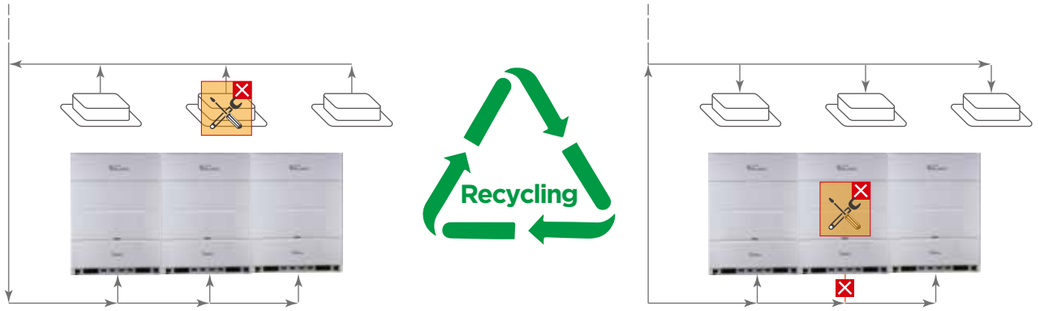
1. Connect refrigerant tank to the outdoor unit & activate automatic charging function
2. Close the shut-off valve automatically & finish the filling process



*This function is available as a customization option.

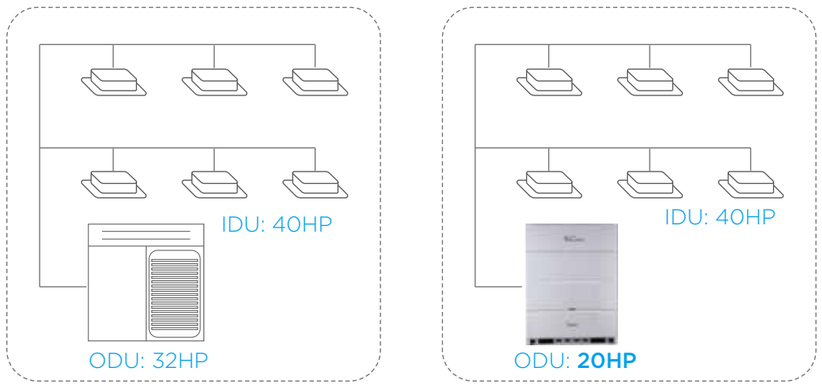
Automatic Refrigerant Recycling

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.



Wide Combination Ratio*

Compared to traditional VRF with combination ratio of 50-130%, the VC MAX 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.



Traditional VRF System | VC MAX Series VRF System

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

Easy Software Program Upgrade

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

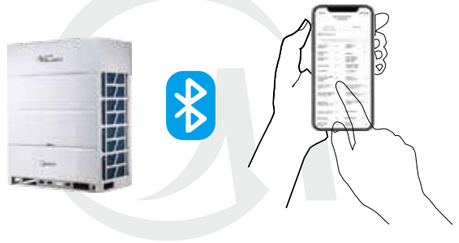
*The data cloud gateway needs to be purchased separately.

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.

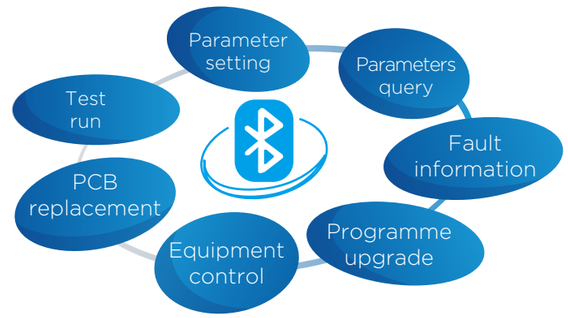
Useful in the following situations:

- 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



Specifications

VC MAX Series VRF

HP			8	10	12
Model name			MVC-M224WV2GN1	MVC-M280WV2GN1	MVC-M335WV2GN1
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	22.4	28	33.5
		kBtu/h	76.4	95.5	114.2
	Power input	kW	4.8	6.8	8.8
	EER		4.65	4.14	3.81
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
	Maximum quantity		13	16	19
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		1	1	1
Fan	Type		DC	DC	DC
	Quantity		1	1	1
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m^3/h	12600	12600	13500
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	7.4	7.4	7.4
Pipe connections[2]	Liquid pipe	mm	Φ12.7	Φ12.7	Φ12.7
	Gas pipe	mm	Φ25.4	Φ25.4	Φ25.4
Sound pressure level[3]		dB(A)	57	58	60
Net dimensions (W×H×D)		mm	940×1760×825	940×1760×825	940×1760×825
Packed dimensions (W×H×D)		mm	1010×1945×890	1010×1945×890	1010×1945×890
Net weight		kg	185	185	185
Gross weight		kg	200	200	200
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

HP			14	16	18
Model name			MVC-M400WV2GN1	MVC-M450WV2GN1	MVC-M500WV2GN1
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	40	45	50
		kBtu/h	136.4	153.5	170.5
	Power input	kW	9.7	12.3	13.4
	EER		4.12	3.67	3.74
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
	Maximum quantity		23	26	29
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		1	1	1
Fan	Type		DC	DC	DC
	Quantity		1	1	1
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m^3/h	15600	15600	16500
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	8.4	8.4	10
Pipe connections[2]	Liquid pipe	mm	Φ15.9	Φ15.9	Φ15.9
	Gas pipe	mm	Φ28.6	Φ28.6	Φ28.6
Sound pressure level[3]		dB(A)	60	61	62
Net dimensions (W×H×D)		mm	940×1760×825	940×1760×825	940×1760×825
Packed dimensions (W×H×D)		mm	1010×1945×890	1010×1945×890	1010×1945×890
Net weight		kg	200	200	212
Gross weight		kg	215	215	232
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

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. Diameters given are those of the unit's stop valves.
3. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

VC MAX Series VRF

HP			20	22	24
Model name			MVC-M560WV2GN1	MVC-M615WV2GN1	MVC-M670WV2GN1
Power supply		V/N/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	191.0	209.7	228.5
	Power input	kW	17.4	17.3	19.0
	EER		3.21	3.55	3.52
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		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		1	1	1
Fan	Type		DC	DC	DC
	Quantity		1	2	2
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m^3/h	16500	21500	21500
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	10	12.8	12.8
Pipe connections[2]	Liquid pipe	mm	Φ15.9	Φ19.1	Φ19.1
	Gas pipe	mm	Φ28.6	Φ31.8	Φ31.8
Sound pressure level[3]		dB(A)	63	63	64
Net dimensions (W×H×D)		mm	940×1760×825	1340×1760×825	1340×1760×825
Packed dimensions (W×H×D)		mm	1010×1945×890	1410×1945×890	1410×1945×890
Net weight		kg	225	260	260
Gross weight		kg	245	285	285
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

HP			26	28	30
Model name			MVC-M730WV2GN1	MVC-M785WV2GN1	MVC-M850WV2GN1
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	73	78.5	85
		kBtu/h	248.9	267.7	289.9
	Power input	kW	19.4	22.3	26.4
	EER		3.76	3.52	3.22
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	50-130% of outdoor unit capacity	50-130% of outdoor unit capacity
	Maximum quantity		43	46	50
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		2	2	2
Fan	Type		DC	DC	DC
	Quantity		2	2	2
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m^3/h	22000	22000	22000
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	15.4	15.4	15.4
Pipe connections[2]	Liquid pipe	mm	Φ22.2	Φ22.2	Φ22.2
	Gas pipe	mm	Φ31.8	Φ31.8	Φ31.8
Sound pressure level[3]		dB(A)	64	64	64
Net dimensions (W×H×D)		mm	1340×1760×825	1340×1760×825	1340×1760×825
Packed dimensions (W×H×D)		mm	1410×1945×890	1410×1945×890	1410×1945×890
Net weight		kg	325	325	325
Gross weight		kg	350	350	350
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

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. Diameters given are those of the unit's stop valves.
3. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

VC MAX Series VRF

HP			32	34	36
Model name (Combination unit)			MVC-M900WV2GN1	MVC-M960WV2GN1	MVC-M1010WV2GN1
Combination type			16HP+16HP	14HP+20HP	16HP+20HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	90.0	96.0	101.0
		kBtu/h	307.0	327.4	344.5
	Power input	kW	24.6	27.1	29.7
	EER		3.66	3.54	3.40
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		53	56	59
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		2	2	2
Fan	Type		DC	DC	DC
	Quantity		2	2	2
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m^3/h	31200	32100	32100
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	8.4×2	8.4+10	8.4+10
Pipe connections[2]	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ31.8	Φ31.8	Φ38.1
Sound pressure level[3]		dB(A)	64	65	65
Net dimensions (W×H×D)		mm	(940×1760×825)×2	(940×1760×825)×2	(940×1760×825)×2
Packed dimensions (W×H×D)		mm	(1010×1945×890)×2	(1010×1945×890)×2	(1010×1945×890)×2
Net weight		kg	200×2	200+225	200+225
Gross weight		kg	215×2	215+245	215+245
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

HP			38	40	42
Model name (Combination unit)			MVC-M1060WV2GN1	MVC-M1120WV2GN1	MVC-M1170WV2GN1
Combination type			18HP+20HP	16HP+24HP	18HP+24HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	106.0	112.0	117.0
		kBtu/h	361.5	382.0	399.0
	Power input	kW	30.8	31.3	32.4
	EER		3.44	3.58	3.61
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		62	64	64
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		2	2	2
Fan	Type		DC	DC	DC
	Quantity		2	3	3
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m^3/h	33000	37100	38000
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	10×2	8.4+12.8	10+12.8
Pipe connections[2]	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ38.1	Φ38.1	Φ38.1
Sound pressure level[3]		dB(A)	66	66	66
Net dimensions (W×H×D)		mm	(940×1760×825)×2	(940×1760×825)+(1340×1760×825)	(940×1760×825)+(1340×1760×825)
Packed dimensions (W×H×D)		mm	(1010×1945×890)×2	(1010×1945×890)+(1410×1945×890)	(1010×1945×890)+(1410×1945×890)
Net weight		kg	212+225	200+260	212+260
Gross weight		kg	232+245	215+285	232+285
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

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. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.
3. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

VC MAX Series VRF

HP			44	46	48
Model name (Combination unit)			MVC-M1230WV2GN1	MVC-M1300WV2GN1	MVC-M1350WV2GN1
Combination type			20HP+24HP	16HP+30HP	18HP+30HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	123.0	130.0	135.0
		kBtu/h	419.5	443.4	460.4
	Power input	kW	36.4	38.7	39.8
	EER		3.38	3.36	3.39
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		64	64	64
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		2	3	3
Fan	Type		DC	DC	DC
	Quantity		3	3	3
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m^3/h	38000	37600	38500
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	10+12.8	8.4+15.4	10+15.4
Pipe connections[2]	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ38.1	Φ38.1	Φ38.1
Sound pressure level[3]		dB(A)	67	66	66
Net dimensions (W×H×D)		mm	(940×1760×825)+(1340×1760×825)	(940×1760×825)+(1340×1760×825)	(940×1760×825)+(1340×1760×825)
Packed dimensions (W×H×D)		mm	(1010×1945×890)+(1410×1945×890)	(1010×1945×890)+(1410×1945×890)	(1010×1945×890)+(1410×1945×890)
Net weight		kg	225+260	200+325	212+325
Gross weight		kg	245+285	215+350	232+350
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

HP			50	52	54
Model name (Combination unit)			MVC-M1410WV2GN1	MVC-M1465WV2GN1	MVC-M1520WV2GN1
Combination type			20HP+30HP	22HP+30HP	24HP+30HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	141.0	146.5	152.0
		kBtu/h	480.9	499.6	518.4
	Power input	kW	43.8	43.7	45.4
	EER		3.22	3.35	3.35
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		64	64	64
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		3	3	3
Fan	Type		DC	DC	DC
	Quantity		3	4	4
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m^3/h	38500	43500	43500
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	10+15.4	12.8+15.4	12.8+15.4
Pipe connections[2]	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ38.1	Φ38.1	Φ38.1
Sound pressure level[3]		dB(A)	67	67	67
Net dimensions (W×H×D)		mm	(940×1760×825)+(1340×1760×825)	(1340×1760×825)×2	(1340×1760×825)×2
Packed dimensions (W×H×D)		mm	(1010×1945×890)+(1410×1945×890)	(1410×1945×890)×2	(1410×1945×890)×2
Net weight		kg	225+325	260+325	260+325
Gross weight		kg	245+350	285+350	285+350
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

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. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.
3. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

VC MAX Series VRF

HP			56	58	60
Model name (Combination unit)			MVC-M1580WV2GN1	MVC-M1635WV2GN1	MVC-M1700WV2GN1
Combination type			26HP+30HP	28HP+30HP	30HP+30HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	158.0	163.5	170.0
		kBtu/h	538.8	557.6	579.8
	Power input	kW	45.8	48.7	52.8
	EER		3.45	3.36	3.22
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		64	64	64
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		4	4	4
Fan	Type		DC	DC	DC
	Quantity		4	4	4
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m^3/h	44000	44000	44000
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	15.4×2	15.4×2	15.4×2
Pipe connections[2]	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ41.3	Φ41.3	Φ41.3
Sound pressure level[3]		dB(A)	67	67	67
Net dimensions (W×H×D)		mm	(1340×1760×825)×2	(1340×1760×825)×2	(1340×1760×825)×2
Packed dimensions (W×H×D)		mm	(1410×1945×890)×2	(1410×1945×890)×2	(1410×1945×890)×2
Net weight		kg	325×2	325×2	325×2
Gross weight		kg	350×2	350×2	350×2
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

HP			62	64	66
Model name (Combination unit)			MVC-M1750WV2GN1	MVC-M1810WV2GN1	MVC-M1860WV2GN1
Combination type			16HP+16HP+30HP	14HP+20HP+30HP	16HP+20HP+30HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	175.0	181.0	186.0
		kBtu/h	596.9	617.3	634.4
	Power input	kW	51.0	53.5	56.1
	EER		3.43	3.38	3.32
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		64	64	64
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		4	4	4
Fan	Type		DC	DC	DC
	Quantity		4	4	4
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m^3/h	53200	54100	54100
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	8.4×2+15.4	8.4+10+15.4	8.4+10+15.4
Pipe connections[2]	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ41.3	Φ41.3	Φ41.3
Sound pressure level[3]		dB(A)	67	67	68
Net dimensions (W×H×D)		mm	(940×1760×825)×2+(1340×1760×825)	(940×1760×825)×2+(1340×1760×825)	(940×1760×825)×2+(1340×1760×825)
Packed dimensions (W×H×D)		mm	(1010×1945×890)×2+(1410×1945×890)	(1010×1945×890)×2+(1410×1945×890)	(1010×1945×890)×2+(1410×1945×890)
Net weight		kg	200×2+325	200+225+325	200+225+325
Gross weight		kg	215×2+350	215+245+350	215+245+350
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

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. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.
3. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

VC MAX Series VRF

HP			68	70	72
Model name (Combination unit)			MVC-M1910WV2GN1	MVC-M1970WV2GN1	MVC-M2020WV2GN1
Combination type			18HP+20HP+30HP	16HP+24HP+30HP	18HP+24HP+30HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	191.0	197.0	202.0
		kBtu/h	651.4	671.9	688.9
	Power input	kW	57.2	57.7	58.8
	EER		3.34	3.41	3.44
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		64	64	64
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		4	4	4
Fan	Type		DC	DC	DC
	Quantity		4	5	5
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m^3/h	55000	59100	60000
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	10×2+15.4	8.4+12.8+15.4	10+12.8+15.4
Pipe connections[2]	Liquid pipe	mm	Φ22.2	Φ22.2	Φ22.2
	Gas pipe	mm	Φ44.5	Φ44.5	Φ44.5
Sound pressure level[3]		dB(A)	68	68	68
Net dimensions (W×H×D)		mm	(940×1760×825)×2+(1340×1760×825)	(940×1760×825)+(1340×1760×825)×2	(940×1760×825)+(1340×1760×825)×2
Packed dimensions (W×H×D)		mm	(1010×1945×890)×2+(1410×1945×890)	(1010×1945×890)+(1410×1945×890)×2	(1010×1945×890)+(1410×1945×890)×2
Net weight		kg	212+225+325	200+260+325	212+260+325
Gross weight		kg	232+245+350	215+285+350	232+285+350
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

HP			74	76	78
Model name (Combination unit)			MVC-M2080WV2GN1	MVC-M2150WV2GN1	MVC-M2200WV2GN1
Combination type			20HP+24HP+30HP	16HP+30HP+30HP	18HP+30HP+30HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	208.0	215.0	220.0
		kBtu/h	709.4	733.3	750.3
	Power input	kW	62.8	65.1	66.2
	EER		3.31	3.30	3.32
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		64	64	64
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		4	5	5
Fan	Type		DC	DC	DC
	Quantity		5	5	5
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m^3/h	60000	59600	60500
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	10+12.8+15.4	8.4+15.4×2	10+15.4×2
Pipe connections[2]	Liquid pipe	mm	Φ22.2	Φ22.2	Φ22.2
	Gas pipe	mm	Φ44.5	Φ44.5	Φ44.5
Sound pressure level[3]		dB(A)	69	68	68
Net dimensions (W×H×D)		mm	(940×1760×825)+(1340×1760×825)×2	(940×1760×825)+(1340×1760×825)×2	(940×1760×825)+(1340×1760×825)×2
Packed dimensions (W×H×D)		mm	(1010×1945×890)+(1410×1945×890)×2	(1010×1945×890)+(1410×1945×890)×2	(1010×1945×890)+(1410×1945×890)×2
Net weight		kg	225+260+325	200+325×2	212+325×2
Gross weight		kg	245+285+350	215+350×2	232+350×2
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

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. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.
3. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

VC MAX Series VRF

HP			80	82	84
Model name (Combination unit)			MVC-M2260WV2GN1	MVC-M2315WV2GN1	MVC-M2370WV2GN1
Combination type			20HP+30HP+30HP	22HP+30HP+30HP	24HP+30HP+30HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	226.0	231.5	237.0
		kBtu/h	770.8	789.5	808.3
	Power input	kW	70.2	70.1	71.8
	EER		3.22	3.30	3.30
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		64	64	64
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		5	5	5
Fan	Type		DC	DC	DC
	Quantity		5	6	6
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m^3/h	60500	65500	65500
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	10+15.4×2	12.8+15.4×2	12.8+15.4×2
Pipe connections[2]	Liquid pipe	mm	Φ22.2	Φ22.2	Φ25.4
	Gas pipe	mm	Φ44.5	Φ44.5	Φ50.8
Sound pressure level[3]		dB(A)	69	69	69
Net dimensions (W×H×D)		mm	(940×1760×825)+(1340×1760×825)×2	(1340×1760×825)×3	(1340×1760×825)×3
Packed dimensions (W×H×D)		mm	(1010×1945×890)+(1410×1945×890)×2	(1410×1945×890)×3	(1410×1945×890)×3
Net weight		kg	225+325×2	260+325×2	260+325×2
Gross weight		kg	245+350×2	285+350×2	285+350×2
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

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. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.
3. 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			86	88	90
Model name (Combination unit)			MVC-M2430WV2GN1	MVC-M2485WV2GN1	MVC-M2550WV2GN1
Combination type			26HP+30HP+30HP	28HP+30HP+30HP	30HP+30HP+30HP
Power supply		V/N/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)
Cooling[1]	Capacity	kW	243.0	248.5	255.0
		kBtu/h	828.7	847.5	869.7
	Power input	kW	72.2	75.1	79.2
	EER		3.37	3.31	3.22
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		64	64	64
Compressor	Type		Scroll DC inverter	Scroll DC inverter	Scroll DC inverter
	Quantity		6	6	6
Fan	Type		DC	DC	DC
	Quantity		6	6	6
	Static pressure	Pa	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)	0-20 (default); 20-120 (customized)
	Airflow rate	m^3/h	66000	66000	66000
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	kg	15.4×3	15.4×3	15.4×3
Pipe connections[2]	Liquid pipe	mm	Φ25.4	Φ25.4	Φ25.4
	Gas pipe	mm	Φ50.8	Φ50.8	Φ50.8
Sound pressure level[3]		dB(A)	69	69	69
Net dimensions (W×H×D)		mm	(1340×1760×825)×3	(1340×1760×825)×3	(1340×1760×825)×3
Packed dimensions (W×H×D)		mm	(1410×1945×890)×3	(1410×1945×890)×3	(1410×1945×890)×3
Net weight		kg	325×3	325×3	325×3
Gross weight		kg	350×3	350×3	350×3
Ambient temp. operation range (Cooling)		°C	-15 to 55	-15 to 55	-15 to 55

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. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the Engineering Data Book for connection piping diameters.
3. 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.

C-V8S202208

Midea

2022

SMART IN ONE

V8S

VRF Catalogue

Compact size with modular design perfectly suitable for limited installation spaces

Midea Building Technologies Division
Midea Group

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

OUTDOOR UNITS

V8S VRF

The V8S Series VRF uses a variety of algorithms and self-learning technology to monitor the operation of the equipment through operating parameters and timely maintenance, so that the equipment always runs in optimal condition throughout its life cycle.

V8S VRF Lineup

Outdoor Unit

8-14HP	16-24HP
	

26-48HP	50-72HP
	

74-96HP


Outdoor Unit Functions

Functions ●: equipped as standard; O: customization option;			V8S
Key Technologies	HyperLink	Midea original communication bus chip greatly simplifies installation and saves installation cost	●
	SuperSense	18 sensors achieves the state of each part of the refrigerant pipeline can be known in the whole process	●
	Meta 2.0	Triple variable control to maximize the comfort and energy efficiency	●
	Zen air 2.0	Provides comfort and healthy air supply	●
	Doctor M 2.0	Intelligent diagnostic technology makes maintenance easier and more efficient	●
High Efficiency	Full DC inverter technology	All electrical components of outdoor and indoor units are DC power supply, improving electrical efficiency and achieving energy saving	●
	Enhanced Vapor Injection (EVI) compressor	Increases refrigerant circulation and improves both cooling and heating capacity	●
	Micro-channel refrigerant subcooling	The refrigerant system can achieve 15°C refrigerant subcooling, which can further improve the refrigerant heat transfer efficiency while reducing the sound	●
	Low standby power consumption	The standby power consumption is as low as 3.5W	●
	60-step energy management	The system can be set 40% to 100% capacity output in 1% increments	●

Functions ●: equipped as standard; O: customization option;			V8S
High Reliability	Duty cycling	Equalizes the running time of the outdoor units in a multiple-unit system,significantly extending unit lifespan (available for combined unit)	●
	Backup operation (unit)	If one unit fails, the other units provide backup so that the system can continue operating (available for combined unit)	●
	Backup operation (fan motor)	If one fan motor fails, the other fan motor provide backup so that the system can continue operating	●
	Backup operation (sensor)	If one sensor fails, the virtual sensor provide backup so that the system can continue operating	●
	Precise oil control	Ensures all outdoor compressor oil is at a safe level, eliminating any compressor oil shortage problems.	●
	Heavy anti-corrosion protection	Can be customized with heavy anti-corrosion treatment for surface protection against corrosive air, acid rain and saline air (for installations in coastal regions) to extend overall useful life	○
	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	○
	Micro-channel refrigerant cooling PCB	10 times higher than ordinary refrigerant pipe cooling efficiency	●
	Auto dust-clean function	Blows away accumulated dust on the outdoor unit, guaranteeing the unit operating stable in dusty environment	●
	Alarm output	In case of system malfunction, remote output error information, remind maintenance personnel timely maintenance	●
	Fire alarm input	In case of fire, receive fire information in time and stop the system immediately to avoid serious problems	●

Outdoor Unit Functions

Functions ●: equipped as standard; O: customization option;			V8S
Enhanced Comfort	Silent mode	15-step silent mode selections provide more freedom and convenience to match the customer needs	●
	Humidity control	Combined with the optional humidity sensor, the room humidity can be controlled by 35% to 75%	○
	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)	●
	Additional ambient temperature sensor	The additional external ambient temperature sensor can detect the true outdoor ambient temperature, correctly judge whether the system is 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℃, ensuring less room temperature fluctuation	●
	Multiple priority modes	10 priority modes meet the requirements of all scenarios	●
Wide Application Range	Wide capacity range	Meets all customer requirements from small to large buildings	8-24HP (single) 26-96HP (combined)
	Wide range of indoor units	Provides 12 types and more than 100 models of VRF indoor units to meet different application scenarios	●
	Wide operation range	Operates stably under extreme conditions	-15-55°C (C) -30-30°C (H)
	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	●
	Auto addressing (ODU-ODU)	Distributes addresses to slave outdoor units automatically, further simplifying the installation (available for combined unit)	●

Functions ●: equipped as standard; O: customization option;			V8S
Easy Installation And Service	Automatic refrigerant charging	Makes installation and service easier and more efficient	○
	Automatic refrigerant recycling	Refrigerant can recycle to ODUs or IDUs and normal ODUs, 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, indoor and outdoor units programme upgrade, etc., simplifying installation and maintenance.	○
	Digit display	4 digit 7-segment display can be intuitive for parameter setting, parameter check and error check	●
	High external static pressure	Up to 80Pa ESP allows easy handling in a variety of installation environments	0-35Pa ● 35-80Pa ○
	Arbitrary topology of communication wire	Supports any communication topology, greatly simplifies installation and reduces installation cost	●
	2-core non-polarity communication wiring between the indoor and outdoor units	Simplifies installation and reduces wiring failures	●
	Long communication wiring	Communication wiring up to 2000m makes installation more flexible	●
	Wide combination ratio	Combination ration can be extended to 50%-200% under certain conditions which can meet different project requirements	50-130% ● 50-200% (for single unit system) ○
	Supports manual and automatic defrosting	Improves maintenance efficiency	●
	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	●
	Flexible controller connection	Central controller and BMS gateway can connect to ODU at the same time, central controller can connect to ODU or IDU	●
	Refrigerant amount diagnosis	The unit can diagnose excessive or insufficient amounts of refrigerant, 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 done on-site or remotely via the web	●
	Intelligent maintenance tool	Intelligent bluetooth after-sales kit can simplify maintenance and improve maintenance efficiency	○

Note:
*The web function needs to be realized through the data cloud gateway, and the data cloud gateway needs to be purchased separately.

INNOVATIVE

TECHNOLOGIES

HyperLink New & Unique

SuperSense New & Unique

ETA 2.0

ENair 2.0

DOCTOR m. 2.0

HyperLink

New & Unique

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

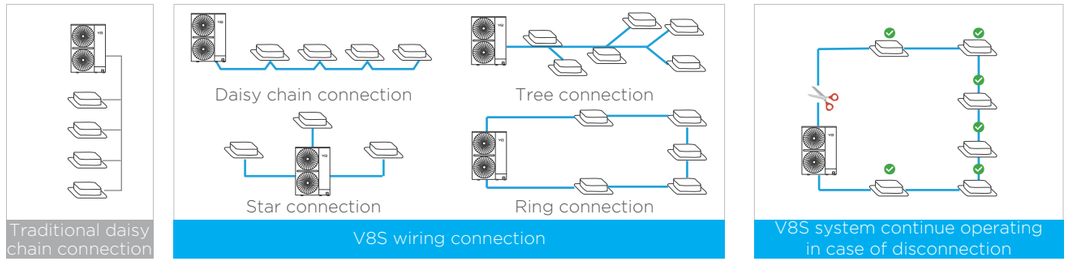
Benefits

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

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

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 wring is flexible, which greatly reduces the installation cost and has no possibility of wrong connection on site.

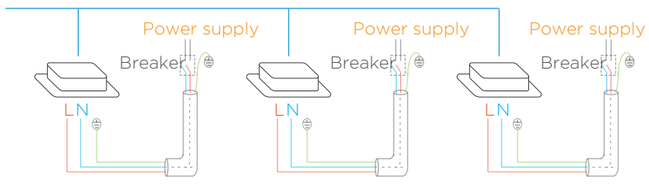


Super Anti-interference Capability

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

Flexible Power Supply for Indoor Units

HyerLink '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.



SuperSense

New & Unique

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

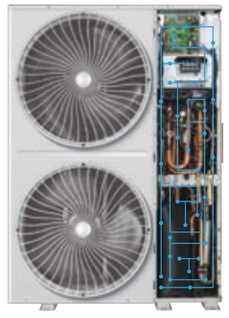
Benefits

- High reliability
- Stable operation
- Enhanced comfort

Up to 18 sensors are distributed throughout the refrigerant system, and the status of the refrigerant is known anywhere 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.

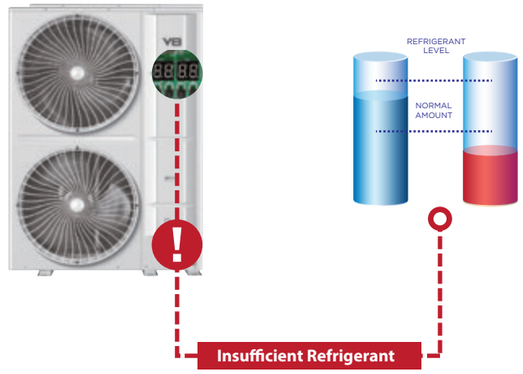
Complete Sensors

The V8S VRF has the industry's most comprehensive range of 18 condition sensors with built-in data models for compressors, heat exchangers, throttling components and more. By analyzing sensor data in real time, it can sense the status of the refrigerant anywhere in the system.



Refrigerant Amount Diagnosis*

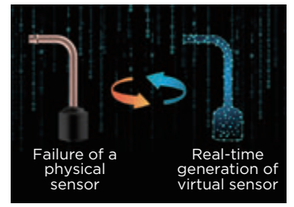
Thanks to the complete sensors, the refrigerant running state is clearly visible, so as to accurately diagnose the amount of refrigerant.



*This function is available at the end of July 2022.

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**.

Benefits

- Energy saving
- Enhanced comfort
- Fast cooling/heating

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

Variable Refrigerant Flow

STEP 1: Architectural space feature recognition

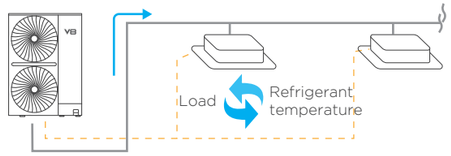
The indoor unit automatically recognizes the size of the building space and the effectiveness of the insulation according to the rate of temperature drop.

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

Variable Refrigerant Temperature

STEP 2: System refrigerant temperature determination

The system automatically matches the evaporating temperature (in cooling) or condensing temperature (in heating) to the room load to maximize comfort and energy efficiency.



Automatic matching of the corresponding refrigerant temperature to the load.

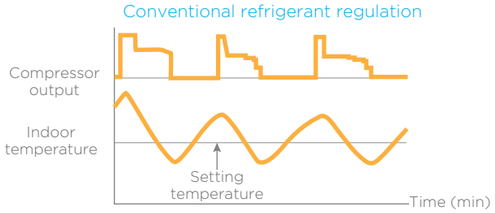
Variable Indoor Airflow

STEP 3: Adaptive indoor airflow and refrigerant flow

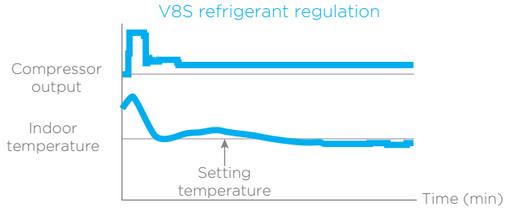
Each indoor unit automatically adjusts the corresponding indoor airflow and refrigerant flow according to the evaporating/condensing temperature, enabling precise temperature control.

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

Conventional refrigerant regulation

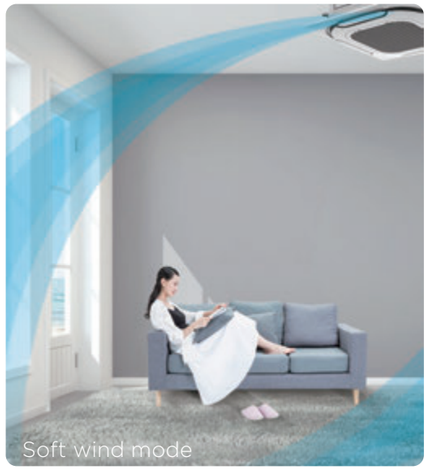


V8S refrigerant regulation



Zen Air 2.0

Further upgraded ZEN AIR technology to maximize **COMFORT**.



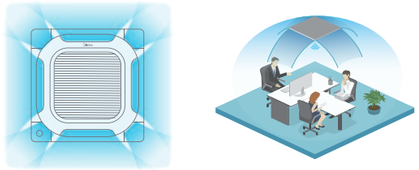
Benefits

- Quiet
- Enhanced comfort
- Healthy

0.5°C temperature adjustment, 7 fan speeds selection, sleep mode, silent mode, windless technology, high efficiency filter, a variety of sterilization device and other advanced technologies used in V8S Series VRF are dedicated to creating a quiet, comfortable and healthy indoor environment.

360° Airflow

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

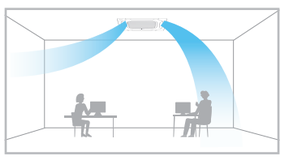


7 Fan Speeds

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

Individual Louver Control

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



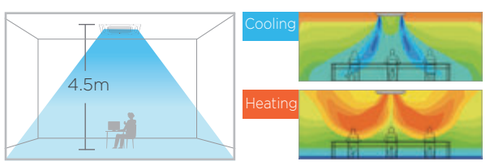
Sleep Mode

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

*Temperature on left is for reference.

Long Distance Air Delivery*

The Four-way Cassette has an additional 50Pa static pressure for long airflow delivery and is capable of being used in spaces up to 4.5m in floor height.

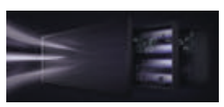


*This function is available as a customization option.

Innovative Puro-air Kit

Protectors of health and safety

OSRAM From Germany - OSRAM quality UV light source



1st The world's first air conditioning sterilization product certification
99.9% Effective killing rate of white grape fungus
99.9% Effective killing rate of H1N1
98% Effective killing rate of natural bacteria

Ozone –Free
UV leakage-Free

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

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 V8S 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. Intelligent Bluetooth module and special Bluetooth after-sales kit can further simplify maintenance and improve maintenance efficiency.

Intelligent Maintenance Tool

With intelligent Bluetooth module or special Bluetooth after-sales kit, the data of the outdoor unit can be directly read and written on your smart phone without the needs of connecting PC or opening cabinet.

* Bluetooth module is available as a customization option.

Real-time Monitoring of Operating Parameters

The V8S Series VRF synchronizes and stores all the unit parameters to the cloud through the data cloud gateway, including the running status, locking status, dirty blocking rate, all spot inspection parameters and so on. Users can query real-time and historical parameters on computers, tablets and mobile phones at any time.

Cloud-based Big Data Analytics

Midea V8S 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.

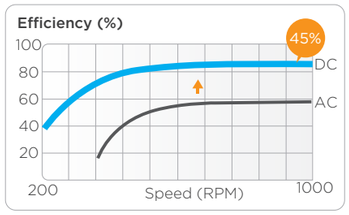
*The data cloud gateway is still under development and needs to be purchased separately.

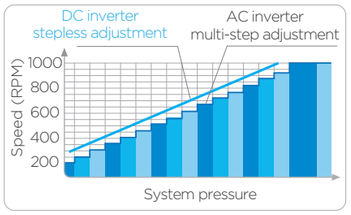
High Efficiency

Full DC Inverter Technology

Full DC Inverter for Outdoor Components

The V8S 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.





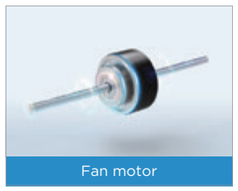
Wider frequency adjustment range

Faster cooling and heating

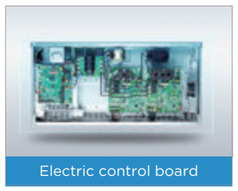
Higher energy efficiency

Full DC Inverter for Indoor Components

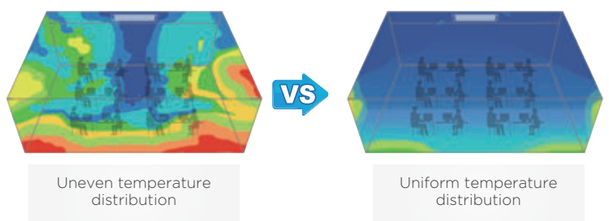
All power devices such as indoor fan motor, drain pump and electric control board are fully DC, which increases electrical efficiency by 20% and results in more accurate temperature control, a more constant indoor temperature and higher energy efficiency.


Fan motor


Drain pump

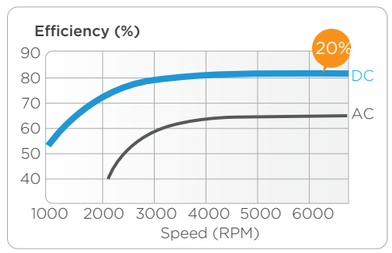

Electric control board

20% Efficiency improvements



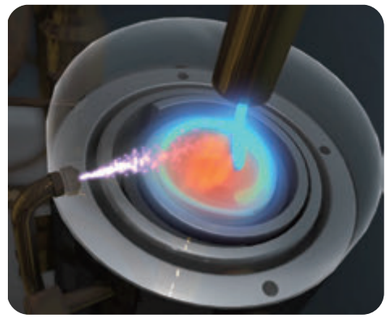
Uneven temperature distribution

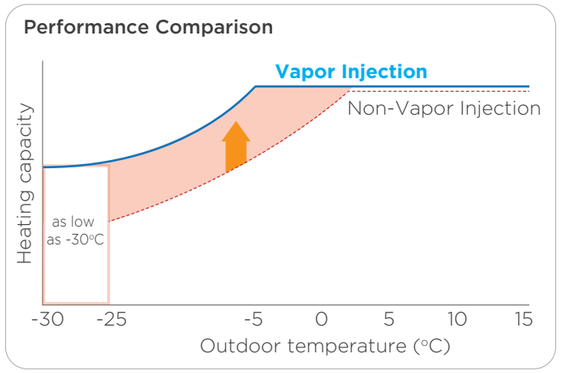
Uniform temperature distribution



Enhanced Vapor Injection (EVI) Compressor

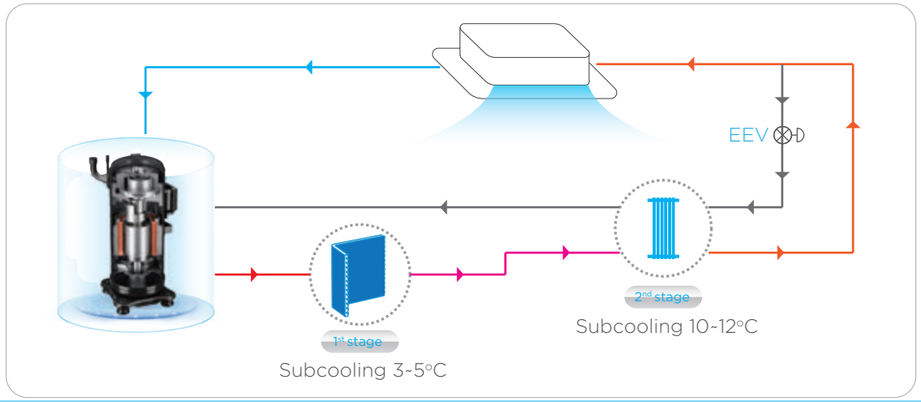
The enhanced vapor injection DC inverter compressor increases refrigerant circulation and improves both cooling and heating capacity.





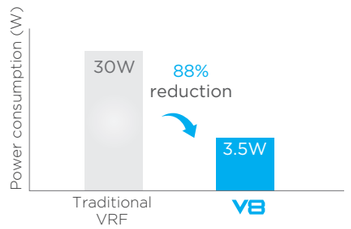
Advanced Subcooling Technology

The V8S 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.



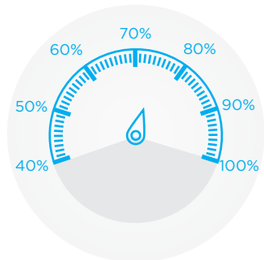
Low Standby Power Consumption

Compared to the standby power consumption of traditional VRF of about 30W, the V8S 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 electricity supply restriction conditions and remains system continue to operate.



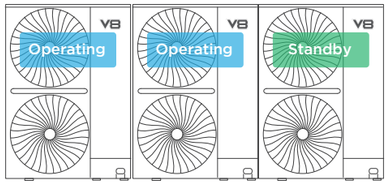
High Reliability

Triple Backup

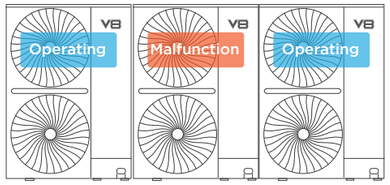
The V8S supports unit backup, fan backup and sensor backup. The triple backup ensures no shutdown in the event of a failure, further guaranteeing comfort.

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.



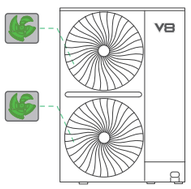
Intelligent load-bearing between units during normal operation



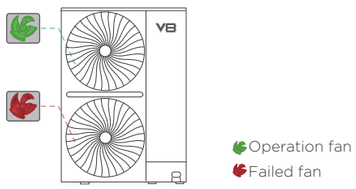
Standby unit backup operating with no system shutdown

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.



In normal operation, each fan runs on demand



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

3 Sensor Backup

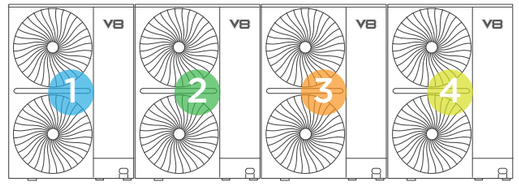
New & Unique

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.

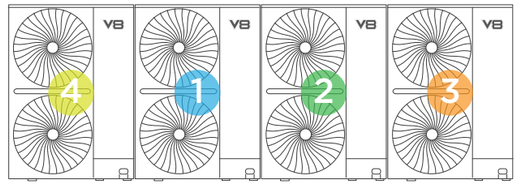
Automatic backup operation of the corresponding virtual sensor in case of failure of one physical sensor

Duty Cycling

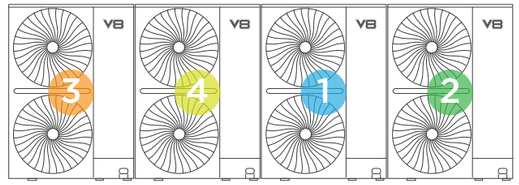
In a multi-unit system, duty cycling equalizes the running time of each outdoor unit, significantly extending unit lifespan.



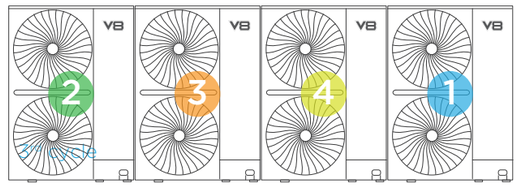
1st cycle



2nd cycle



3rd cycle



4th cycle

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.

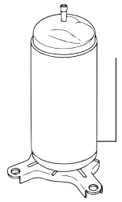
SuperSense

V8S Series VRF uses up to 18 sensors for each outdoor unit and 4 sensors for each indoor unit. The operating status of the system refrigerant is clearly visible, which can realize intelligent analysis of operation parameters, intelligent error diagnosis and forecasting, and visualized energy saving.

Precise Oil Control

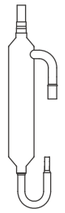
Three stages of oil control technology ensure all outdoor compressor oil is always kept at a safe level, eliminating any compressor oil shortage problems.

1



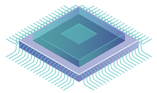
Compressor internal oil separation.

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.

Heavy Anti-corrosion Protection*

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

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

UL Anti-Corrosion Certificate*

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

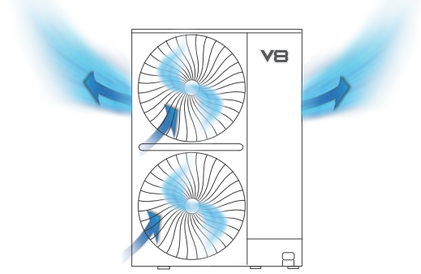
*UL anti-corrosion certificate is available for heavy anti-corrosion treatment units.

Outdoor Unit can resist 27 years of simulated severe corrosion under a salt contaminated traffic environment

UL VERIFIED verify.ul.com A926834

Auto Dust-clean Function

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

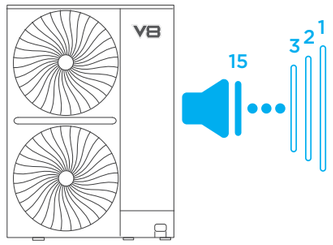


Self-clean

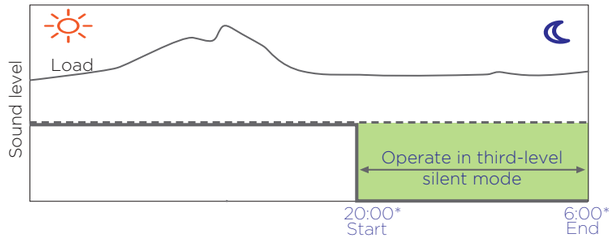
Enhanced Comfort

Advanced Silent Technology

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



15 silent options



Night silent mode

*The entry and exit time of the night silent mode can be set in the wired controller.

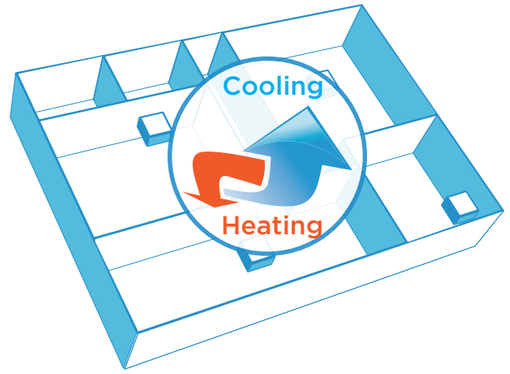
Humidity Control, More Comfortable*

The optional humidity control function can accurately control the indoor humidity. The default dehumidification mode ensures that the indoor humidity is always in the most comfortable range of 35~75%.

*This function is available as a customization option.

Auto Cooling-heating Changeover

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

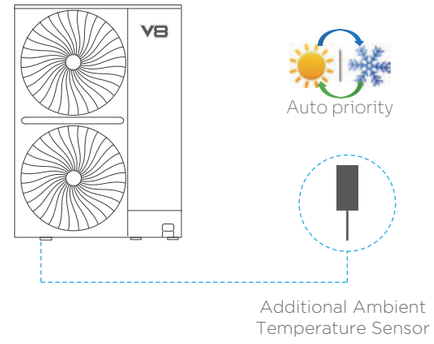


10 Priority Modes

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

Additional Ambient Temperature Sensor*

The V8S Series VRF can be equipped with an additional external ambient temperature sensor to determine whether the system is operating in cooling or heating in auto priority mode. For some installations, the ambient temperature sensor fixed on the unit cannot detect the true ambient temperature, resulting in the system operating in an inappropriate mode and affecting indoor comfort. The external ambient temperature sensor can detect the true outdoor ambient temperature, correctly judge whether the system is running in cooling or heating, ensuring indoor comfort.



*This function is available as a customization option.

Wide Application Range

Wide Capacity Range

The capacity of one V8S Series VRF system is from 8HP to 96HP with up to 4 units combined, perfectly suited for small to large buildings.

Single unit

8-14HP

Single unit

16-24HP

Combined unit

26-48HP

Combined unit

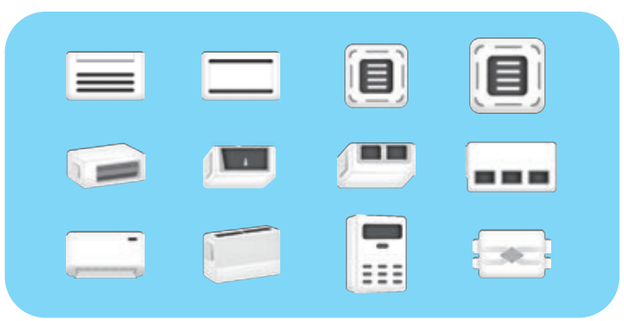
50-72HP

Combined unit

74-96HP

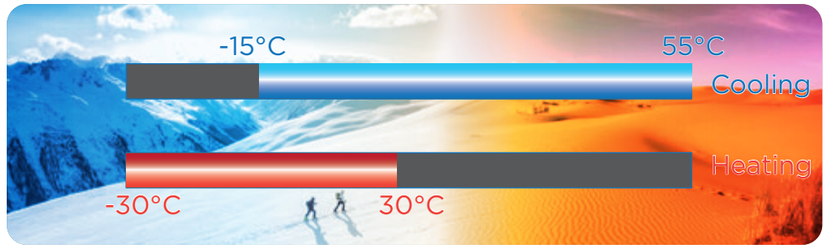
Wide Range of Indoor Units

The V8S Series VRF offers 12 types of over 100 models of indoor units to meet different scenarios of applications such as offices, shopping malls, hotels, airports, schools, hospitals, etc.



Wide Operation Range

Thanks to the EVI compressor and refrigerant cooling technology, the V8S Series VRF can operate at temperatures as low as -30°C for heating and up to 55°C for cooling.



Long Piping Capability

The total piping length of the V8S system can be up to 560m, the level difference between indoor and outdoor units can be up to 50m and the level difference between indoor units can be up to 30m, making the V8S Series VRF perfectly suitable for all buildings.

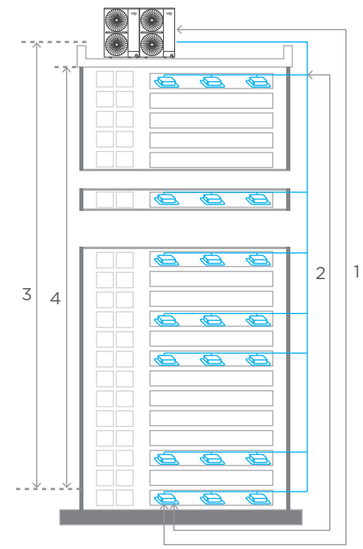
Total piping length: **560m**
1 Longest piping length - actual (equivalent): **150(175)m**

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 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

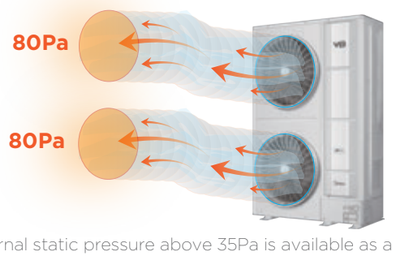
HyperLink communication technology supports any wiring pattern rather than just daisy chain connection, reducing the installation cost and the possibility of incorrect connection. It has stronger anti-interference ability, achieving communication distance up to 2000m.

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*

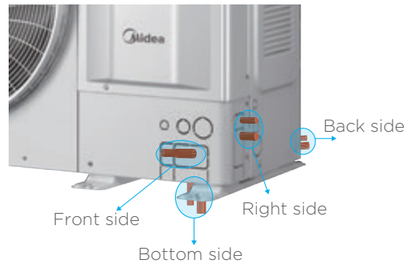
The static pressure of the outdoor unit can be up to 80Pa which facilitates installation of the unit on each floor of high-rise building or on balconies.



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

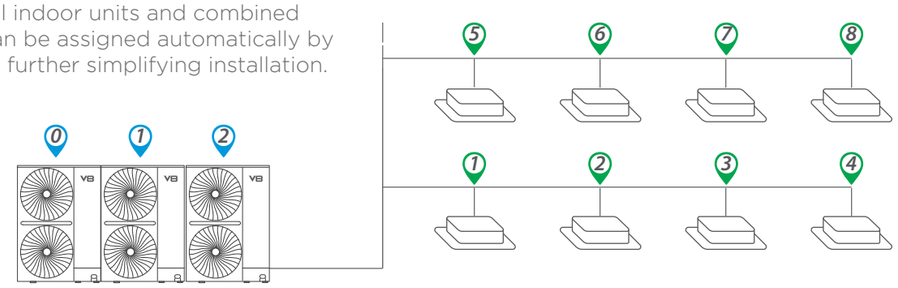
Four-way Piping Connection

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



Auto Addressing

Addresses for all indoor units and combined outdoor units can be assigned automatically by the V8S system, further simplifying installation.



Automatic Refrigerant Charging*

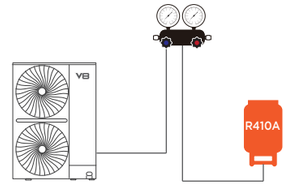
Compared to manual refrigerant charging, automatic refrigerant charging greatly simplifies the process, making installation and maintenance easier and more efficient.

Manual refrigerant charging

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

Automatic refrigerant charging

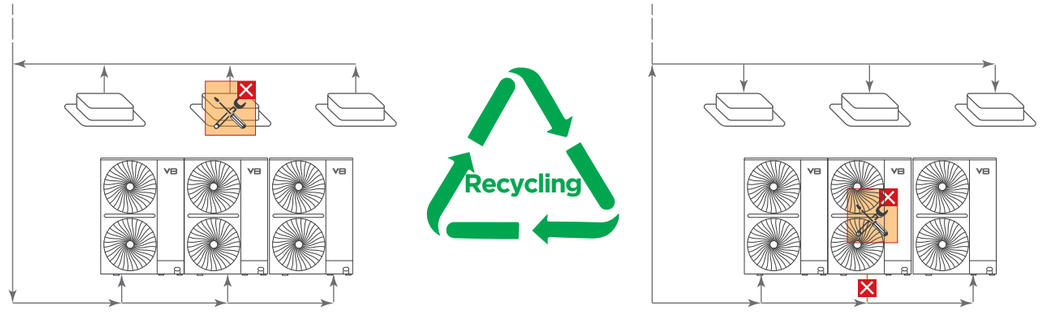
1. Connect refrigerant tank to the outdoor unit & activate automatic charging function
2. Close the shut-off valve automatically & finish filling process



*This function is available as a customization option.

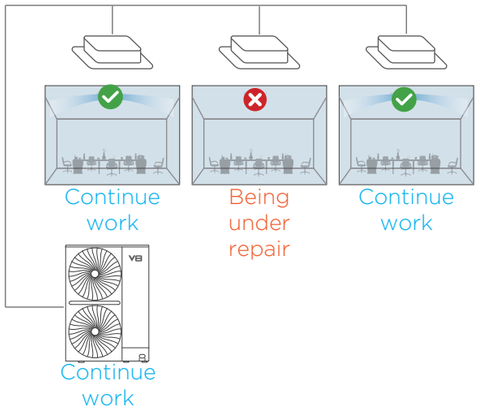
Automatic Refrigerant Recycling

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 easier and more efficient.



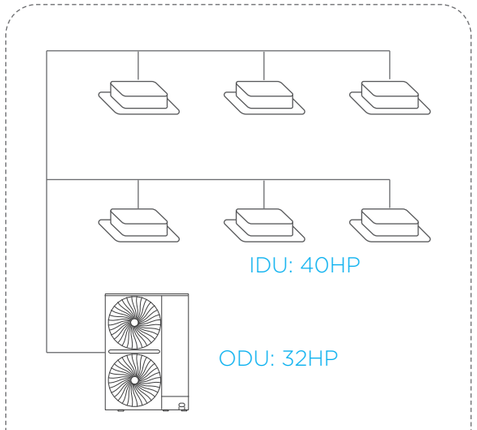
Maintenance Mode

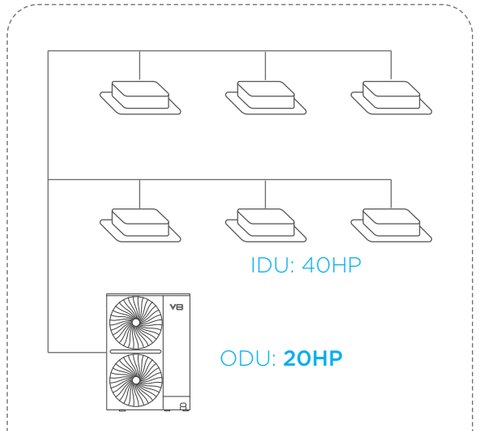
The maintenance mode allows the shutdown of some indoor units without shutting down the whole VRF system, and it can be activated on site during maintenance period as the remaining indoor units continue to operate.



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 customization option.

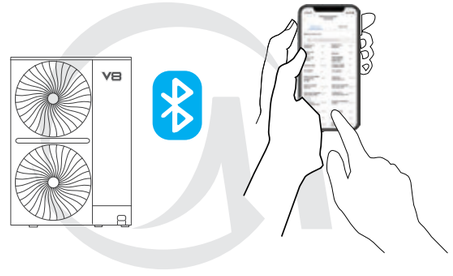
Easy Software Program Upgrade

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

*The data cloud gateway is still under development and 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.

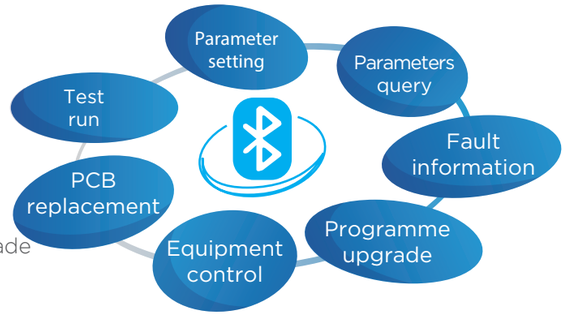


Useful in the following situations:

- 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



Specifications

V8S (380-415V/3N/50(60)Hz)

HP			8	10	12	14
Model			MV8S-252WV2GN1	MV8S-280WV2GN1	MV8S-335WV2GN1	MV8S-400WV2GN1
Power supply		V/N/Hz	380-415/3/50(60)			
Cooling[1]	Capacity	kW	25.2	28	33.5	40
		kBtu/h	86.0	95.5	114.3	136.5
	Power input	kW	5.8	7.5	8.0	11.2
	EER		4.38	3.73	4.21	3.57
Heating[2]	Capacity	kW	27	31.5	37.5	45
		kBtu/h	92.1	107.5	128.0	153.5
	Power input	kW	5.7	6.8	7.9	10.5
	COP		4.78	4.67	4.78	4.29
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity			
	Maximum quantity		13	16	20	23
Compressors	Type		DC inverter			
	Quantity		1			
Fan motors	Type		DC			
	Quantity		2			
	Airflow rate	m^3/h	11800	12500	12500	12500
	Static pressure	Pa	0-35 (standard); 35-80 (customized)			
Refrigerant	Type		R410A			
	Factory charge	kg	6.1	6.1	6.4	7.4
Pipe connections[3]	Liquid pipe	mm	Ø12.7	Ø12.7	Ø12.7	Ø12.7
	Gas pipe	mm	Ø25.4	Ø25.4	Ø25.4	Ø25.4
Sound pressure level[4]		dB(A)	56	57	58	59
Net dimensions (W×H×D)		mm	1130×1760×445	1130×1760×445	1130×1760×445	1130×1760×445
Packed dimensions (W×H×D)		mm	1210×1916×597	1210×1916×597	1210×1916×597	1210×1916×597
Net weight		kg	177	177	180	182
Gross weight		kg	191	191	194	196
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30

HP			16	18	20	22	24
Model			MV8S-450WV2GN1	MV8S-500WV2GN1	MV8S-560WV2GN1	MV8S-615WV2GN1	MV8S-670WV2GN1
Power supply		V/N/Hz	380-415/3/50(60)				
Cooling[1]	Capacity	kW	45	50	56	61.5	67
		kBtu/h	153.5	170.6	191.1	209.8	228.6
	Power input	kW	11.6	12.8	15.6	18.1	19.7
	EER		3.88	3.91	3.59	3.40	3.41
Heating[2]	Capacity	kW	50	56.5	63	69	75
		kBtu/h	170.6	192.8	215.0	235.4	255.9
	Power input	kW	11.9	13.5	14.2	16.9	17.5
	COP		4.20	4.19	4.44	4.08	4.29
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity				
	Maximum quantity		26	29	33	36	39
Compressors	Type		DC inverter				
	Quantity		1	1			1
Fan motors	Type		DC				
	Quantity		2	2			2
	Airflow rate	m^3/h	18500	20000	18500	19000	19000
	Static pressure	Pa	0-35 (standard); 35-80 (customized)				
Refrigerant	Type		R410A				
	Factory charge	kg	8	8	8.5	8.5	9.7
Pipe connections[3]	Liquid pipe	mm	Ø15.9	Ø15.9	Ø15.9	Ø15.9	Ø15.9
	Gas pipe	mm	Ø28.6	Ø28.6	Ø28.6	Ø28.6	Ø28.6
Sound pressure level[4]		dB(A)	60	61	61	62	64
Net dimensions (W×H×D)		mm	1250×1760×445	1250×1760×445	1250×1760×445	1250×1760×445	1250×1760×445
Packed dimensions (W×H×D)		mm	1330×1916×597	1330×1916×597	1330×1916×597	1330×1916×597	1330×1916×597
Net weight		kg	208	208	228	228	233
Gross weight		kg	223	223	243	243	248
Ambient temp. operation range	Cooling	°C(DB)	-15 to 55	-15 to 55	-15 to 55	-15 to 55	-15 to 55
	Heating	°C(DB)	-30 to 30	-30 to 30	-30 to 30	-30 to 30	-30 to 30

Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those of the unit's stop valves.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

V8S (380-415V/3N/50(60)Hz)

HP			26	28	30
Model (Combination unit)			MV8S-735WV2GN1	MV8S-800WV2GN1	MV8S-850WV2GN1
Combination type			12HP+14HP	14HP+14HP	14HP+16HP
Power supply		V/N/Hz	380-415/3/50(60)		
Cooling[1]	Capacity	kW	73.5	80.0	85.0
		kBtu/h	250.8	273.0	290.0
	Power input	kW	19.2	22.4	22.8
	EER		3.83	3.57	3.73
Heating[2]	Capacity	kW	82.5	90.0	95.0
		kBtu/h	281.5	307.1	324.1
	Power input	kW	18.4	21.0	22.4
	COP		4.48	4.29	4.24
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		43	46	50
Compressor	Type		DC inverter		
	Quantity		2	2	2
Fan	Type		Propeller	Propeller	Propeller
Fan motors	Type		DC	DC	DC
	Quantity		4	4	4
	Airflow rate	m^3h	25000	25000	31000
	Static pressure	Pa	0-35 (standard); 35-80 (customized)		
Refrigerant	Type		R410A		
	Factory charge	kg	6.4+7.4	7.4×2	7.4+8
Pipe connections[3]	Liquid pipe	mm	Ø19.1	Ø19.1	Ø19.1
	Gas pipe	mm	Ø31.8	Ø31.8	Ø31.8
Sound pressure level[4]		dB(A)	62	62	63
Net dimensions (W×H×D)		mm	(1130×1760×445)×2	(1130×1760×445)×2	(1130×1760×445)+(1250×1760×445)
Packed dimensions (W×H×D)		mm	(1210×1916×597)×2	(1210×1916×597)×2	(1210×1916×597)+(1330×1916×597)
Net weight		kg	180+182	182×2	182+208
Gross weight		kg	194+196	196×2	196+223
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

HP			32	34	36
Model (Combination unit)			MV8S-900WV2GN1	MV8S-950WV2GN1	MV8S-1000WV2GN1
Combination type			14HP+18HP	16HP+18HP	18HP+18HP
Power supply		V/N/Hz	380-415/3/50(60)		
Cooling[1]	Capacity	kW	90.0	95.0	100.0
		kBtu/h	307.1	324.1	341.2
	Power input	kW	24.0	24.4	25.6
	EER		3.75	3.89	3.91
Heating[2]	Capacity	kW	101.5	106.5	113.0
		kBtu/h	346.3	363.4	385.6
	Power input	kW	24.0	25.4	27.0
	COP		4.23	4.19	4.19
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		53	56	59
Compressor	Type		DC inverter		
	Quantity		2	2	2
Fan	Type		Propeller	Propeller	Propeller
Fan motors	Type		DC	DC	DC
	Quantity		4	4	4
	Airflow rate	m^3h	32500	38500	40000
	Static pressure	Pa	0-35 (standard); 35-80 (customized)		
Refrigerant	Type		R410A		
	Factory charge	kg	7.4+8	8×2	8×2
Pipe connections[3]	Liquid pipe	mm	Ø19.1	Ø19.1	Ø19.1
	Gas pipe	mm	Ø31.8	Ø31.8	Ø38.1
Sound pressure level[4]		dB(A)	63	64	64
Net dimensions (W×H×D)		mm	(1130×1760×445)+(1250×1760×445)	(1250×1760×445)×2	(1250×1760×445)×2
Packed dimensions (W×H×D)		mm	(1210×1916×597)+(1330×1916×597)	(1330×1916×597)×2	(1330×1916×597)×2
Net weight		kg	182+208	208×2	208×2
Gross weight		kg	196+223	223×2	223×2
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 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent lengths between the farthest IDU and the first outdoor branch joint of less than 90m. For systems with lengths of 90m or longer, please refer to the V8S Series Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

V8S (380-415V/3N/50(60)Hz)

HP Model (Combination unit)			38 MV8S-1070WV2GN1	40 MV8S-1115WV2GN1	42 MV8S-1170WV2GN1
Combination type			14HP+24HP	18HP+22HP	18HP+24HP
Power supply		V/N/Hz	380-415/3/50(60)		
Cooling[1]	Capacity	kW	107.0	111.5	117.0
		kBtu/h	365.1	380.4	399.2
	Power input	kW	30.9	30.9	32.5
	EER		3.46	3.61	3.60
Heating[2]	Capacity	kW	120.0	125.5	131.5
		kBtu/h	409.4	428.2	448.7
	Power input	kW	28.0	30.4	31.0
	COP		4.29	4.13	4.24
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		63	64	64
Compressor	Type		DC inverter		
	Quantity		2	2	2
Fan	Type		Propeller	Propeller	Propeller
Fan motors	Type		DC	DC	DC
	Quantity		4	4	4
	Airflow rate	m^3/h	31500	39000	39000
	Static pressure	Pa	0-35 (standard); 35-80 (customized)		
Refrigerant	Type		R410A		
	Factory charge	kg	7.4+9.7	8+8.5	8+9.7
Pipe connections[3]	Liquid pipe	mm	Ø19.1	Ø19.1	Ø19.1
	Gas pipe	mm	Ø38.1	Ø38.1	Ø38.1
Sound pressure level[4]		dB(A)	65	65	66
Net dimensions (W×H×D)		mm	(1130×1760×445)+(1250×1760×445)	(1250×1760×445)×2	(1250×1760×445)×2
Packed dimensions (W×H×D)		mm	(1210×1916×597)+(1330×1916×597)	(1330×1916×597)×2	(1330×1916×597)×2
Net weight		kg	182+233	208+228	208+233
Gross weight		kg	196+248	223+243	223+248
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

HP Model (Combination unit)			44 MV8S-1230WV2GN1	46 MV8S-1285WV2GN1	48 MV8S-1340WV2GN1
Combination type			22HP+22HP	22HP+24HP	24HP+24HP
Power supply		V/N/Hz	380-415/3/50(60)		
Cooling[1]	Capacity	kW	123.0	128.5	134.0
		kBtu/h	419.7	438.4	457.2
	Power input	kW	36.2	37.8	39.4
	EER		3.40	3.40	3.40
Heating[2]	Capacity	kW	138.0	144.0	150.0
		kBtu/h	470.9	491.3	511.8
	Power input	kW	33.8	34.4	35.0
	COP		4.08	4.19	4.29
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64		
Compressor	Type		DC inverter		
	Quantity		2	2	2
Fan	Type		Propeller	Propeller	Propeller
Fan motors	Type		DC	DC	DC
	Quantity		4	4	4
	Airflow rate	m^3/h	38000	38000	38000
	Static pressure	Pa	0-35 (standard); 35-80 (customized)		
Refrigerant	Type		R410A		
	Factory charge	kg	8.5×2	8.5+9.7	9.7×2
Pipe connections[3]	Liquid pipe	mm	Ø19.1	Ø19.1	Ø19.1
	Gas pipe	mm	Ø38.1	Ø38.1	Ø38.1
Sound pressure level[4]		dB(A)	65	66	67
Net dimensions (W×H×D)		mm	(1250×1760×445)×2	(1250×1760×445)×2	(1250×1760×445)×2
Packed dimensions (W×H×D)		mm	(1330×1916×597)×2	(1330×1916×597)×2	(1330×1916×597)×2
Net weight		kg	228×2	228+233	233×2
Gross weight		kg	243×2	243+248	248×2
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 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent lengths between the farthest IDU and the first outdoor branch joint of less than 90m. For systems with lengths of 90m or longer, please refer to the V8S Series Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

V8S (380-415V/3N/50(60)Hz)

HP Model (Combination unit)			50 MV8S-1400WV2GN1	52 MV8S-1470WV2GN1	54 MV8S-1500WV2GN1
Combination type			14HP+18HP+18HP	14HP+14HP+24HP	18HP+18HP+18HP
Power supply		V/N/Hz	380-415/3/50(60)		
Cooling[1]	Capacity	kW	140.0	147.0	150.0
		kBtu/h	477.7	501.6	511.8
	Power input	kW	36.8	42.1	38.4
	EER		3.80	3.49	3.91
Heating[2]	Capacity	kW	158.0	165.0	169.5
		kBtu/h	539.1	563.0	578.3
	Power input	kW	37.5	38.5	40.5
	COP		4.21	4.29	4.19
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64		
Compressor	Type		DC inverter		
	Quantity		3	3	3
Fan	Type		Propeller	Propeller	Propeller
Fan motors	Type		DC	DC	DC
	Quantity		6	6	6
	Airflow rate	m^3/h	52500	44000	60000
	Static pressure	Pa	0-35 (standard); 35-80 (customized)		
Refrigerant	Type		R410A		
	Factory charge	kg	7.4+8×2	7.4×2+9.7	8×3
Pipe connections[3]	Liquid pipe	mm	Ø19.1	Ø19.1	Ø19.1
	Gas pipe	mm	Ø38.1	Ø38.1	Ø38.1
Sound pressure level[4]		dB(A)	65	66	66
Net dimensions (W×H×D)		mm	(1130×1760×445)+(1250×1760×445)×2	(1130×1760×445)×2+(1250×1760×445)	(1250×1760×445)×3
Packed dimensions (W×H×D)		mm	(1210×1916×597)+(1330×1916×597)×2	(1210×1916×597)×2+(1330×1916×597)	(1330×1916×597)×3
Net weight		kg	182+208×2	182×2+233	208×3
Gross weight		kg	196+223×2	196×2+248	223×3
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

HP Model (Combination unit)			56 MV8S-1570WV2GN1	58 MV8S-1615WV2GN1	60 MV8S-1670WV2GN1
Combination type			14HP+18HP+24HP	18HP+18HP+22HP	18HP+18HP+24HP
Power supply		V/N/Hz	380-415/3/50(60)		
Cooling[1]	Capacity	kW	157.0	161.5	167.0
		kBtu/h	535.7	551.0	569.8
	Power input	kW	43.7	43.7	45.3
	EER		3.59	3.70	3.69
Heating[2]	Capacity	kW	176.5	182.0	188.0
		kBtu/h	602.2	621.0	641.5
	Power input	kW	41.5	43.9	44.5
	COP		4.25	4.15	4.22
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64	64	
Compressor	Type		DC inverter		
	Quantity		3	3	3
Fan	Type		Propeller	Propeller	Propeller
Fan motors	Type		DC	DC	DC
	Quantity		6	6	6
	Airflow rate	m^3/h	51500	59000	59000
	Static pressure	Pa	0-35 (standard); 35-80 (customized)		
Refrigerant	Type		R410A		
	Factory charge	kg	7.4+8+9.7	8×2+8.5	8×2+9.7
Pipe connections[3]	Liquid pipe	mm	Ø19.1	Ø19.1	Ø19.1
	Gas pipe	mm	Ø41.2	Ø41.2	Ø41.2
Sound pressure level[4]		dB(A)	67	66	67
Net dimensions (W×H×D)		mm	(1130×1760×445)+(1250×1760×445)×2	(1250×1760×445)×3	(1250×1760×445)×3
Packed dimensions (W×H×D)		mm	(1210×1916×597)+(1330×1916×597)×2	(1330×1916×597)×3	(1330×1916×597)×3
Net weight		kg	182+208+233	208×2+228	208×2+233
Gross weight		kg	196+223+248	223×2+243	223×2+248
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 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent lengths between the farthest IDU and the first outdoor branch joint of less than 90m. For systems with lengths of 90m or longer, please refer to the V8S Series Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

V8S (380-415V/3N/50(60)Hz)

HP Model (Combination unit)			62 MV8S-1730WV2GN1	64 MV8S-1785WV2GN1	66 MV8S-1845WV2GN1
Combination type			18HP+22HP+22HP	18HP+22HP+24HP	22HP+22HP+22HP
Power supply		V/N/Hz	380-415/3/50(60)		
Cooling[1]	Capacity	kW	173.0	178.5	184.5
		kBtu/h	590.3	609.0	629.5
	Power input	kW	49.0	50.6	54.3
	EER		3.53	3.53	3.40
Heating[2]	Capacity	kW	194.5	200.5	207.0
		kBtu/h	663.6	684.1	706.3
	Power input	kW	47.3	47.9	50.7
	COP		4.11	4.19	4.08
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64		
Compressor	Type		DC inverter		
	Quantity		3	3	3
Fan	Type		Propeller	Propeller	Propeller
Fan motors	Type		DC	DC	DC
	Quantity		6	6	6
	Airflow rate	m^3/h	58000	58000	57000
	Static pressure	Pa	0-35 (standard); 35-80 (customized)		
Refrigerant	Type		R410A		
	Factory charge	kg	8+8.5×2	8+8.5+9.7	8.5×3
Pipe connections[3]	Liquid pipe	mm	Ø19.1	Ø19.1	Ø19.1
	Gas pipe	mm	Ø41.2	Ø41.2	Ø41.2
Sound pressure level[4]		dB(A)	66	67	67
Net dimensions (W×H×D)		mm	(1250×1760×445)×3	(1250×1760×445)×3	(1250×1760×445)×3
Packed dimensions (W×H×D)		mm	(1330×1916×597)×3	(1330×1916×597)×3	(1330×1916×597)×3
Net weight		kg	208+228×2	208+228+233	228×3
Gross weight		kg	223+243×2	223+243+248	243×3
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

HP Model (Combination unit)			68 MV8S-1900WV2GN1	70 MV8S-1955WV2GN1	72 MV8S-2010WV2GN1
Combination type			22HP+22HP+24HP	22HP+24HP+24HP	24HP+24HP+24HP
Power supply		V/N/Hz	380-415/3/50(60)		
Cooling[1]	Capacity	kW	190.0	195.5	201.0
		kBtu/h	648.3	667.0	685.8
	Power input	kW	55.9	57.5	59.1
	EER		3.40	3.40	3.40
Heating[2]	Capacity	kW	213.0	219.0	225.0
		kBtu/h	726.8	747.2	767.7
	Power input	kW	51.3	51.9	52.5
	COP		4.15	4.22	4.29
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64		
Compressor	Type		DC inverter		
	Quantity		3	3	3
Fan	Type		Propeller	Propeller	Propeller
Fan motors	Type		DC	DC	DC
	Quantity		6	6	6
	Airflow rate	m^3/h	57000	57000	57000
	Static pressure	Pa	0-35 (standard); 35-80 (customized)		
Refrigerant	Type		R410A		
	Factory charge	kg	8.5×2+9.7	8.5+9.7×2	9.7×3
Pipe connections[3]	Liquid pipe	mm	Ø22.2	Ø22.2	Ø22.2
	Gas pipe	mm	Ø44.5	Ø44.5	Ø44.5
Sound pressure level[4]		dB(A)	68	68	69
Net dimensions (W×H×D)		mm	(1250×1760×445)×3	(1250×1760×445)×3	(1250×1760×445)×3
Packed dimensions (W×H×D)		mm	(1330×1916×597)×3	(1330×1916×597)×3	(1330×1916×597)×3
Net weight		kg	228×2+233	228+233×2	233×3
Gross weight		kg	243×2+248	243+248×2	248×3
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 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent lengths between the farthest IDU and the first outdoor branch joint of less than 90m. For systems with lengths of 90m or longer, please refer to the V8S Series Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

V8S (380-415V/3N/50(60)Hz)

HP Model (Combination unit)			74 MV8S-2070WV2GN1	76 MV8S-2115WV2GN1	78 MV8S-2170WV2GN1
Combination type			14HP+18HP+18HP+24HP	18HP+18HP+18HP+22HP	18HP+18HP+18HP+24HP
Power supply		V/N/Hz	380-415/3/50(60)		
Cooling[1]	Capacity	kW	207.0	211.5	217.0
		kBtu/h	706.3	721.6	740.4
	Power input	kW	56.5	56.5	58.1
	EER		3.66	3.74	3.73
Heating[2]	Capacity	kW	233.0	238.5	244.5
		kBtu/h	795.0	813.8	834.2
	Power input	kW	55.0	57.4	58.0
	COP		4.24	4.16	4.22
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64		
Compressor	Type		DC inverter		
	Quantity		4	4	4
Fan	Type		Propeller	Propeller	Propeller
Fan motors	Type		DC	DC	DC
	Quantity		8	8	8
	Airflow rate	m^3/h	71500	79000	79000
	Static pressure	Pa	0-35 (standard); 35-80 (customized)		
Refrigerant	Type		R410A		
	Factory charge	kg	7.4+8×2+9.7	8×3+8.5	8×3+9.7
Pipe connections[3]	Liquid pipe	mm	Ø22.2	Ø22.2	Ø22.2
	Gas pipe	mm	Ø44.5	Ø44.5	Ø44.5
Sound pressure level[4]		dB(A)	68	67	68
Net dimensions (W×H×D)		mm	(1130×1760×445)+(1250×1760×445)×3	(1250×1760×445)×4	(1250×1760×445)×4
Packed dimensions (W×H×D)		mm	(1210×1916×597)+(1330×1916×597)×3	(1330×1916×597)×4	(1330×1916×597)×4
Net weight		kg	182+208×2+233	208×3+228	208×3+233
Gross weight		kg	196+223×2+248	223×3+243	223×3+248
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

HP Model (Combination unit)			80 MV8S-2230WV2GN1	82 MV8S-2285WV2GN1	84 MV8S-2340WV2GN1
Combination type			18HP+18HP+22HP+22HP	18HP+18HP+22HP+24HP	18HP+18HP+24HP+24HP
Power supply		V/N/Hz	380-415/3/50(60)		
Cooling[1]	Capacity	kW	223.0	228.5	234.0
		kBtu/h	760.9	779.6	798.4
	Power input	kW	61.8	63.4	65.0
	EER		3.61	3.60	3.60
Heating[2]	Capacity	kW	251.0	257.0	263.0
		kBtu/h	856.4	876.9	897.4
	Power input	kW	60.8	61.4	62.0
	COP		4.13	4.19	4.24
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64		
Compressor	Type		DC inverter		
	Quantity		4	4	4
Fan	Type		Propeller	Propeller	Propeller
Fan motors	Type		DC	DC	DC
	Quantity		8	8	8
	Airflow rate	m^3/h	78000	78000	78000
	Static pressure	Pa	0-35 (standard); 35-80 (customized)		
Refrigerant	Type		R410A		
	Factory charge	kg	8×2+8.5×2	8×2+8.5+9.7	8×2+9.7×2
Pipe connections[3]	Liquid pipe	mm	Ø22.2	Ø22.2	Ø22.2
	Gas pipe	mm	Ø44.5	Ø44.5	Ø50.8
Sound pressure level[4]		dB(A)	68	68	69
Net dimensions (W×H×D)		mm	(1250×1760×445)×4	(1250×1760×445)×4	(1250×1760×445)×4
Packed dimensions (W×H×D)		mm	(1330×1916×597)×4	(1330×1916×597)×4	(1330×1916×597)×4
Net weight		kg	208×2+228×2	208×2+228+233	208×2+233×2
Gross weight		kg	223×2+243×2	223×2+243+248	223×2+248×2
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 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent lengths between the farthest IDU and the first outdoor branch joint of less than 90m. For systems with lengths of 90m or longer, please refer to the V8S Series Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

V8S (380-415V/3N/50(60)Hz)

HP Model (Combination unit)			86 MV8S-2400WV2GN1	88 MV8S-2460WV2GN1	90 MV8S-2515WV2GN1
Combination type			18HP+22HP+22HP+24HP	22HP+22HP+22HP+22HP	22HP+22HP+22HP+24HP
Power supply		V/N/Hz	380-415/3/50(60)		
Cooling[1]	Capacity	kW	240.0	246.0	251.5
		kBtu/h	818.9	839.4	858.1
	Power input	kW	68.7	72.4	74.0
	EER		3.49	3.40	3.40
Heating[2]	Capacity	kW	269.5	276.0	282.0
		kBtu/h	919.5	941.7	962.2
	Power input	kW	64.8	67.6	68.2
	COP		4.16	4.08	4.13
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64		
Compressor	Type		DC inverter		
	Quantity		4	4	4
Fan	Type		Propeller	Propeller	Propeller
Fan motors	Type		DC	DC	DC
	Quantity		8	8	8
	Airflow rate	m^3/h	77000	76000	76000
	Static pressure	Pa	0-35 (standard); 35-80 (customized)		
Refrigerant	Type		R410A		
	Factory charge	kg	8+8.5×2+9.7	8.5×4	8.5×3+9.7
Pipe connections[3]	Liquid pipe	mm	Ø22.2	Ø22.2	Ø25.4
	Gas pipe	mm	Ø50.8	Ø50.8	Ø50.8
Sound pressure level[4]		dB(A)	68	68	69
Net dimensions (W×H×D)		mm	(1250×1760×445)×4	(1250×1760×445)×4	(1250×1760×445)×4
Packed dimensions (W×H×D)		mm	(1330×1916×597)×4	(1330×1916×597)×4	(1330×1916×597)×4
Net weight		kg	208+228×2+233	228×4	228×3+233
Gross weight		kg	223+243×2+248	243×4	243×3+248
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 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent lengths between the farthest IDU and the first outdoor branch joint of less than 90m. For systems with lengths of 90m or longer, please refer to the V8S Series Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications

V8S (380-415V/3N/50(60)Hz)

HP Model (Combination unit)			92 MV8S-2570WV2GN1	94 MV8S-2625WV2GN1	96 MV8S-2680WV2GN1
Combination type			22HP+22HP+24HP+24HP	22HP+24HP+24HP+24HP	24HP+24HP+24HP+24HP
Power supply		V/N/Hz	380-415/3/50(60)		
Cooling[1]	Capacity	kW	257.0	262.5	268.0
		kBtu/h	876.9	895.7	914.4
	Power input	kW	75.6	77.2	78.8
	EER		3.40	3.40	3.40
Heating[2]	Capacity	kW	288.0	294.0	300.0
		kBtu/h	982.7	1003.1	1023.6
	Power input	kW	68.8	69.4	70.0
	COP		4.19	4.24	4.29
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		64		
Compressor	Type		DC inverter		
	Quantity		4	4	4
Fan	Type		Propeller	Propeller	Propeller
Fan motors	Type		DC	DC	DC
	Quantity		8	8	8
	Airflow rate	m^3/h	76000	76000	76000
	Static pressure	Pa	0-35 (standard); 35-80 (customized)		
Refrigerant	Type		R410A		
	Factory charge	kg	8.5×2+9.7×2	8.5+9.7×3	9.7×4
Pipe connections[3]	Liquid pipe	mm	Ø25.4	Ø25.4	Ø25.4
	Gas pipe	mm	Ø50.8	Ø50.8	Ø50.8
Sound pressure level[4]		dB(A)	69	70	70
Net dimensions (W×H×D)		mm	(1250×1760×445)×4	(1250×1760×445)×4	(1250×1760×445)×4
Packed dimensions (W×H×D)		mm	(1330×1916×597)×4	(1330×1916×597)×4	(1330×1916×597)×4
Net weight		kg	228×2+233×2	228+233×3	233×4
Gross weight		kg	243×2+248×2	243+248×3	248×4
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 5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 5m with zero level difference.
3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent lengths between the farthest IDU and the first outdoor branch joint of less than 90m. For systems with lengths of 90m or longer, please refer to the V8S Series Engineering Data Book for connection piping diameters.
4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

C-V8INH202308

Midea

V8

Indoor Unit

SMART IN ONE

Midea Building Technologies Division

Midea Group

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Postal code: 528311

mbt.midea.com www.midea-group.com tsp.midea.com

Quality Assurance ISO 9001

Environmental Management ISO 14001

Occupational Health and Safety Management ISO 45001

2023

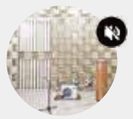
Midea MBT

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.

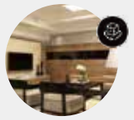
4 production bases can achieve fast delivery

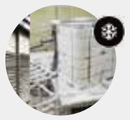
Over 100 testing labs cover a wide range of real application scenarios


Security construction


Noise


Performance


Environmental Simulation


Reliable & long-lasting operation


EMC lab

All products can be visualized and digitalized throughout entire process

3 businesses make up the core of Midea intelligent building solutions

APPLICATION SOLUTIONS

Office Complexes

Enjoy comfort while working

Midea VRF provides solutions for office buildings of all sizes and its smart control solutions streamline the management of VRF. It offers a wide variety of indoor units that are suitable for all designs.

Residential Apartments

One for every home

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

Hotels & Shopping Malls

Increase your business, not your bills

The high efficiency and reliability of Midea VRF make it idea for commercial applications. Intelligent control solutions like hotel key cards and touch screen controller make management easy.

Hospitals/ Schools/ Airports

Meeting all expectations

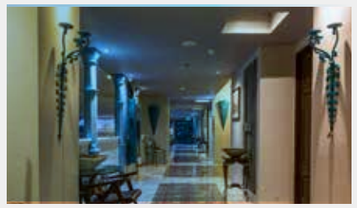
The innovative design and variety of indoor unit options make Midea VRF suitable for all kinds of applications. The newly designed puro-air kit is perfect for modern hospitals.

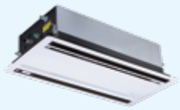
Indoor Unit

One-Way Cassette
Two-Way Cassette
Compact Four-Way Cassette
Four-Way Cassette
Arc Duct
Medium Static Pressure Duct
High Static Pressure Duct
Wall Mounted
Floor Standing

Indoor Unit Lineup

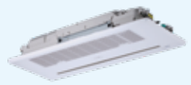
One-Way Cassette





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

Two-Way Cassette

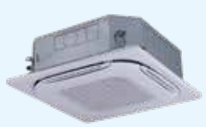


- Automatic anti-condensation
- Multiple Steps Vertical Swing
- Built-in 1200mm high-lift drain pump(Digital feedback DC water pump)

Compact Four-Way Cassette

- 575mm compact body size
- 360° airflow
- Individual louver control
- 3.5m high ceiling installation
- Built-in 1200mm high-lift drain pump
- Optional medium efficiency filter
- Optional plasma sterilization module

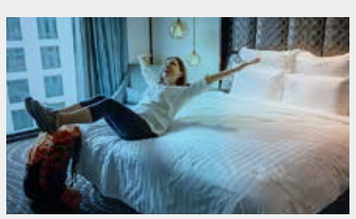
Four-Way Cassette



- 360° airflow, uniform air flow and temperature distribution
- Individual louver control
- Built-in 1200mm high-lift drain pump
- Optional medium efficiency filter
- Optional plasma sterilization module

Arc Duct

- 199mm ultra-thin height (all models)
- 450mm ultra-narrow depth (all models)
- Static pressure adaption, constant air volume supply
- Built-in 1200mm high-lift drain pump
- Optional medium efficiency filter
- Optional plasma sterilization module



Medium Static Pressure Duct

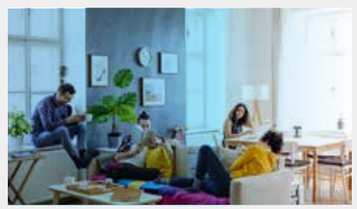
- ESP up to 160Pa (all models)
- 245mm ultra-thin height (all models)
- Static pressure adaption, constant air volume supply
- Built-in 1200mm high-lift drain pump
- Optional HEPA filter with H12 rating
- Optional medium to high efficiency filter
- Optional plasma sterilization module

High Static Pressure Duct

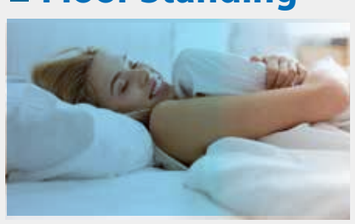
- 5.6kW-16kW ESP up to 250Pa
- 20kW-56kW ESP up to 400Pa
- 299mm ultra-thin height (5.6kW-16kW)
- Static pressure adaption, constant air volume supply
- Built-in 1200mm high-lift drain pump
- Optional HEPA filter with H13 rating
- Optional medium to high efficiency filter

Wall Mounted

- Supports installation close to the ceiling to free up space
- Bi-directional Coanda airflow, enhanced comfort
- Quiet operation
- Optional built-in 1200mm high-lift drain pump
- Optional plasma sterilization module



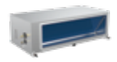
Floor Standing



- ESP up to 60Pa(F3 concealed model)
- Three appearance options to meet different
- installation requirement
  DC fan creates a more quiet and comfortable
- environment
- 0.5°C/1°C Setting Temperature Adjustment

Indoor Unit Lineup

	kW	1.5	1.8	2.2	2.8	3.6	4.5	5.6	6.3	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0	18.0
	Btu/h	5.1 k	6.1 k	7.5 k	9.6 k	12.3 k	15.4 k	19.1 k	21.5 k	24.2 k	27.3 k	30.7 k	34.1 k	38.2 k	42.7 k	47.8 k	54.6 k	61.4 k
Cassette	One-Way Cassette 		●	●	●	●	●	●		●								
	Two-Way Cassette 			●	●	●	●	●		●								
	Compact Four-Way Cassette 	●		●	●	●	●	●	●									
	Four-Way Cassette 				●	●	●	●		●	●	●	●	●		●		
	Four-Way Cassette 																●	●

	kW	1.5	1.8	2.2	2.8	3.6	4.5	5.6	6.3	7.1	8.0	9.0	10.0	11.2	12.5	14.0	16.0	18.0	20.0	22.4	25.2	28.0	33.5	40.0	45.0	56.0
	Btu/h	5.1 k	6.1 k	7.5 k	9.6 k	12.3 k	15.4 k	19.1 k	21.5 k	24.2 k	27.3 k	30.7 k	34.1 k	38.2 k	42.7 k	47.8 k	54.6 k	61.4 k	68.3 K	76.5 K	86.0 K	95.6 K	114.3 K	136.5 K	153.6 K	191.1 K
Duct	Arc Duct 	●		●	●	●	●	●		●	●	●		●												
	Medium Static Pressure Duct 	●		●	●	●	●	●		●	●	●		●		●	●									
	High Static Pressure Duct 							●		●	●	●		●	●	●	●		●	●	●	●	●	●	●	●
Wall Mounted	Wall Mounted 	●		●	●	●	●	●		●	●															
Floor Standing	Floor Standing - Concealed 			●	●	●	●	●		●	●															
	Floor Standing - Exposed 			●	●	●	●	●		●	●															

Indoor Unit Functions

	Functions ●: equipped as standard; ○: customization option; ×: without this function		One-Way Cassette	Two-Way Cassette		Compact Four-Way Cassette	Four-Way Cassette	Arc Duct	Medium Static Pressure Duct	High Static Pressure Duct	Wall Mounted	Floor Standing
	Quiet operation	All indoor units are quiet operation	●	●		●	●	●	●	●	●	●
COMFORT & HEALTH	Auto cooling-heating changeover	Automatically selects cooling or heating mode to achieve the set temperature	●	●		●	●	●	●	●	●	●
	Cold air prevention	When starting to warm up, the fan speed is automatically adjusted according to coil temperature to prevent cold air discharge After warming up, fan speed is set as desired	●	●		●	●	●	●	●	●	●
	Digital display on/off	Indoor unit displays can be shut off at night, creating a better environment for rest	●	●		●	●	●	●	●	●	●
	Buzzer sound on/off	The buzzer sound of the indoor unit can be turned off to create a quieter environment	●	●		●	●	●	●	●	●	●
	EEV automatic adjustment	When in heating standby mode, the indoor unit automatically adjusts the EEV opening according to the load to eliminate noise of refrigerant flowing.	●	●		●	●	●	●	●	●	●
	Indoor temperature detection control	The indoor temperature of multiple indoorl units is obtained from a designated indoor unit, and multiple indoor units in a large space are controlled uniformly through this designated indoor unit.	●	●		●	●	●	●	●	●	●
	0.5℃/1℃ setting temperature adjustment	Set temperature can be adjusted in 0.5℃ or 1℃ steps, enabling precise comfort control	●	●		●	●	●	●	●	●	●
	Home leave mode	During absence, the indoor temperature can be maintained at a certain level	●	●		●	●	●	●	●	●	●
	Independent power supply	This feature allows the shutdown of some indoor units without shutting down the whole VR Fsystem	●	●		●	●	●	●	●	●	●
	Sleep mode	The smart sleep mode can realize sleep is not easy to catch a cold and wake up refreshing	●	●		●	●	●	●	●	●	●
	Mildew proof of heat exchanger	After the unit is shutdown, the fan is delayed shutdown to dry the heat	●	●		●	●	●	●	●	●	●
	Air filter	Removes airborne dust particles to ensure a steady supply of clean air exchanger and prevent the heat exchanger from mildew	pre-filter ●	pre-filter ●		G1 ● G3 ○ F6 ○	G1 ●	G1 ● F6 ○	G1 ● G3 ○ F7 ○ H12 ○	pre-filter ● F7 ○ H13 ○	pre-filter ●	G1 ●
	Fresh air intake	A reserved outside air intake port allows outdoor air to be introduced directly	●	4.5-7.1kW●		●	●	●	●	×	●	×
	Visualization of dirty blockage rate	Dirty blockage rate can be accurately identified and displayed on the controller into the unit	×	×		×	×	●	●	●	×	×
	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	×	×		×	×	○	○	×	×	×
AIR FLOW	Vertical swing	Possibility to select automatic vertical moving of the air discharge louvre, for uniform air flow and temperature distribution	5 steps + auto	5 steps + auto		5 steps + auto	5 steps + auto	×	×	×	5 steps + auto	×
	Horizontal swing	Possibility to select automatic horizontal moving of the air discharge louvre, for uniform air flow and temperature distribution	×	×		×	×	×	×	×	○	×
	Fan speed steps	Multiple fan speeds can be selected to optimize comfort levels	7 steps	7 steps		7 steps	7 steps	7 steps	7 steps	7 steps	7 steps	7 steps
	Auto fan speed	Automatically controls rotation speed of fan depending on indoor load to achieve efficiency and comfort simultaneously	●	●		●	●	●	●	●	●	●
	Individual louver control	Individual louver control via the wired remote controller makes it simple to fix the position of each flap individually	×	×		●	●	×	×	×	×	×
	Soft wind mode	Supplies air against the ceiling to create windless environment	●	●		●	●	●	●	×	●	●
	Adaptive ESP	ESP adapts to duct resistance to ensure constant airflow	×	×		×	×	●	●	●	×	×

* Heat exchanger self-cleaning function can be available only when V8 Mini is connected. There is no AHU-Kit, Fresh Air Processing Unit and V6 indoor unites in the system.

Indoor Unit Functions

	Functions ●: equipped as standard; ○: customization option ; ×: without this function		One-Way Cassette	Two-Way Cassette		Compact Four-Way Cassette	Four-Way Cassette	Arc Duct	Medium Static Pressure Duct	High Static Pressure Duct	Wall Mounted	Floor Standing
ENERGY SAVING	META mode	Triple variable control maximizes energy saving operation	●	●		●	●	●	●	●	●	●
	ECO mode	The setting temperature rises automatically by 1℃ per hour, up to 3℃	●	●		●	●	●	●	●	●	●
	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, ensuringclimate control whilst minimizing energy consumption.	×	×		○	○	×	×	×	○	×
EASY Installation & Service	Program upgrade*	All indoor units can be upgraded on outdoor unit of the same system, more easy program upgrade.	●	●		●	●	●	●	●	●	●
	Long distance air delivery	Provides adequate airflow and capacity under high ceiling conditions	×	×		3.5m	● 3m ○ 4.5m	×	×	×	×	×
	High-lift drain pump	Facilitates condensation draining from the indoor unit	●	●		●	●	●	●	●	○	×
	Water level switch	When the drain pipe is blocked or the drain pipe is poor, the water level switch is turned off, and there is no need to worry about overflowing the ceiling.	●	●		●	●	●	●	●	○	×
	Ceiling anti-dirt setting	The air discharge is specially designed to prevent air blowing against the ceiling to prevent ceiling dirty	●	●		●	●	×	×	×	×	×
	Air baffle fittings for irregular rooms	Some air discharge ports can be blocked with air baffle to optimize air distribution in irregular shaped rooms	×	×		●	●	×	×	×	×	×
	2-core non-polarity communication wiring	Simplifies installation and reduces wiring failures	●	●		●	●	●	●	●	●	●
	Long communication wiring	Communication wiring up to 1200m makes installation more flexible	●	●		●	●	●	●	●	●	●
	3 digit 7-segment display	3 digit 7-segment display can display more parameters and error information	●	●		●	●	●	●	●	●	●
	Error codes are further refined	Simplifies maintenance by refined error code	●	●		●	●	●	●	●	●	●
EASY CONTROL	Timer	Timer can be set to start and stop operation anytime on a daily or weekly basis	●	●		●	●	●	●	●	●	●
	Infrared remote control	Infrared remote control with LCD to remotely control your indoor unit	●	●		●	●	●	●	●	●	●
	Wired remote control	Wired remote control to remotely control your indoor unit	●	●		●	●	●	●	●	●	●
	Group control	Up to 16 indoor units can be in a group control system	●	●		●	●	●	●	●	●	●
	Centralized control	Centralized control to control several indoor units from one single point	●	●		●	●	●	●	●	●	●
	Auto-restart	The unit restarts automatically at the original settings after power failure	●	●		●	●	●	●	●	●	●
	℃/℉ setting	Temperature unit ℃ or ℉ can be set according to your usage habits	●	●		●	●	●	●	●	●	●
	Long-distance on/off function	Long-distance startup or shutoff the system by weak electricity external devices	●	●		●	●	●	●	●	●	●
EXTENDED FUNCTIONS	Humidifier connection	Additional expansion board can achieve third-party humidifier connection	×	×		○	○	○	○	○	○	○
	Dehumidifier connection	Additional expansion board can achieve third-party dehumidifier connection	×	×		○	○	○	○	○	○	○
	Electric heater connection	Additional expansion board can achieve third-party electric heater connection	×	×		○	○	○	○	○	○	○
	Refrigerant leak sensor connection	Additional expansion board can achieve refrigerant leak sensor connection	×	×		○	○	○	○	○	○	○
	CO2 sensor connection	Additional expansion board can achieve CO2 sensor connection	×	×		○	○	○	○	○	○	○
	PM2.5 sensor connection	Additional expansion board can achieve PM2.5 sensor connection	×	×		○	○	○	○	○	○	○
	Third-party controller connection	Third party controller can realize mode, fan speed and temperature control	×	×		○	○	○	○	○	○	○
	Long-distance on/off function	Long-distance startup or shutoff the system by strong electricity external devices	×	×		○	○	○	○	○	○	○
	Long-distance alarm function	Long-distance alarm when an error occurs	×	×		○	○	○	○	○	○	○
	Multiple protections	Multiple protections make the unit run more reliably	●	●		●	●	●	●	●	●	●

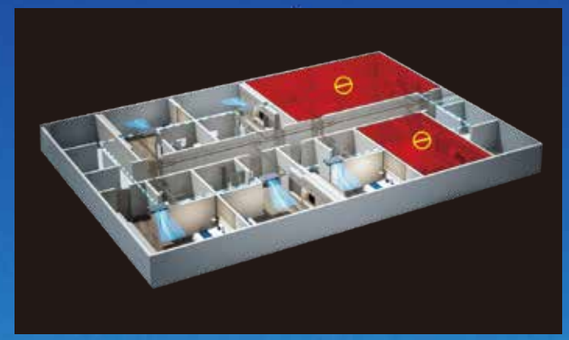
*The program upgrade function needs to be implemented through Bluetooth Module or Data Cloud Gateway. The Bluetooth Module and Data Cloud Gateway needs to be purchased separately.

HyperLink

Communication distance up to **2000M**

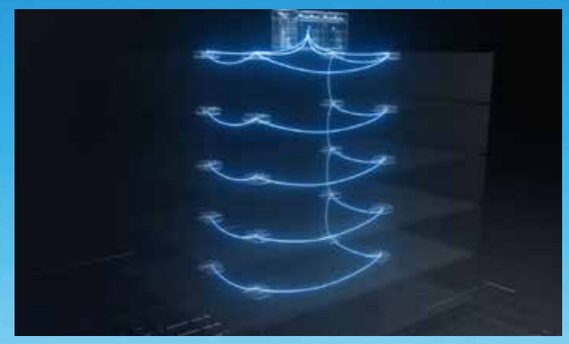
Independent Power Supply

Some indoor units shut down without shutting down the whole VRF system.



Any Topology Communication

The communication wire supports tree connection, star connection, ring connection and so on.



Super Anti-interference Capability

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

Frosting

Frost makes the surface of heat exchanger dirt stripping

Defrosting

Water flow flushes dirt from heat exchanger

Drying

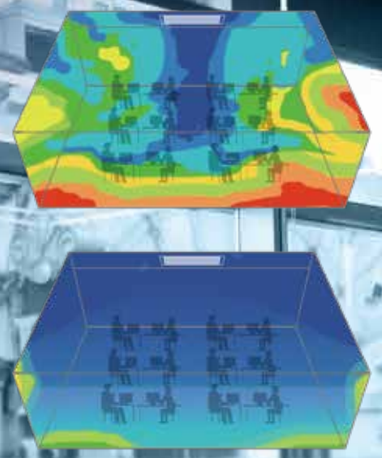
55˚C high temperature drying water, effective sterilization

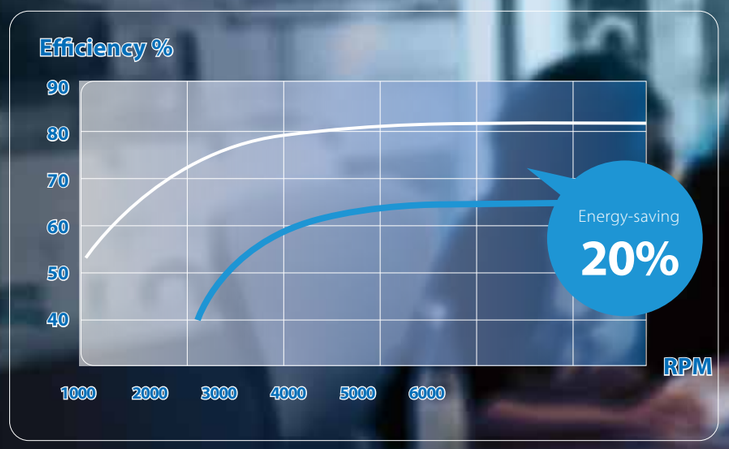
HEAT EXCHANGER SELF-CLEANING*

* Heat exchanger self-cleaning function can be available only when V8 Mini is connected.

Full DC Electronic Components

The fan motor and water pump are DC power supply,
making the temperature control more precise and the indoor temperature more uniform.





Optional Multi-Functional Expansion Board

Humidity control

Electric heater connection

Multiple protections

Long-distance on/off function

Long-distance alarm function

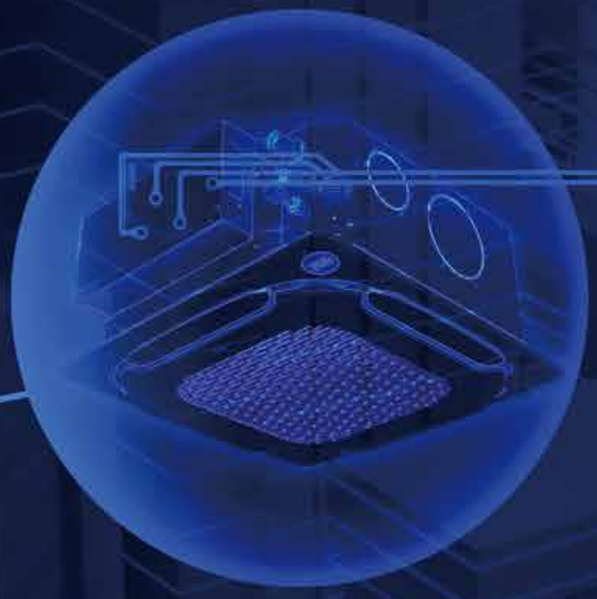
Humidifier/ Dehumidifier connection

Third-party controller connection

CO_2 sensor connection

PM2.5 sensor connection

Refrigerant leak sensor connection



Switch Module
(Optional)

Expansion Board
(Optional)

Free drainage

Quiet operation

High-lift drain pump

One-Way Cassette

COMFORT

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.

Quiet Operation

By optimizing the design of fan motor, air duct and heat exchanger, the new duct operates with noise as low as 22dB(A), creating a quieter and more comfortable environment

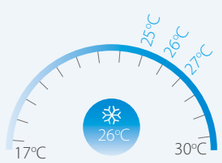
HEALTH

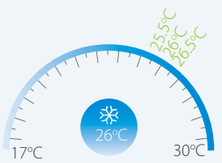
Automatic anti-condensation

The One-way Cassette can automatically enter and exit the anti-condensation mode by detecting its own operation data;
In the anti-condensation mode, the machine can change the outlet angle of the guide vane intermittently to prevent the local temperature difference of the guide panel from being too large and avoid the occurrence of condensation.

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.

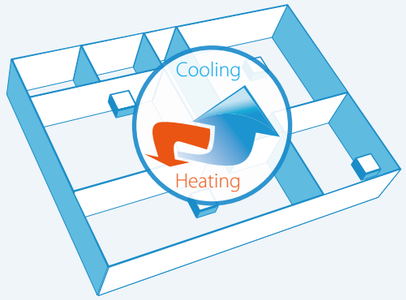




WIDER APPLICATION

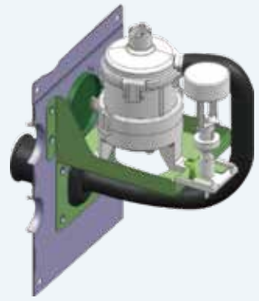
Auto Cooling-heating Changeover

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



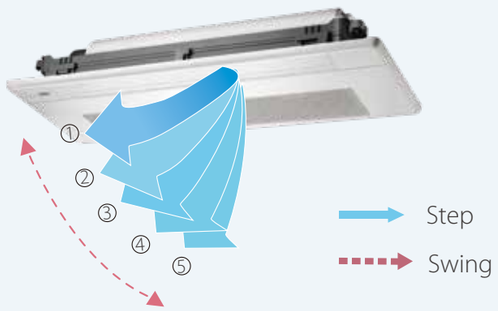
Digital feedback DC water pump

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.



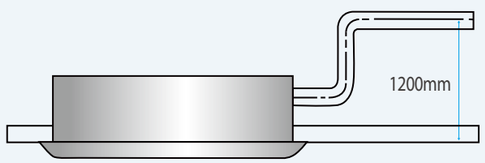
Multiple Steps Vertical Swing

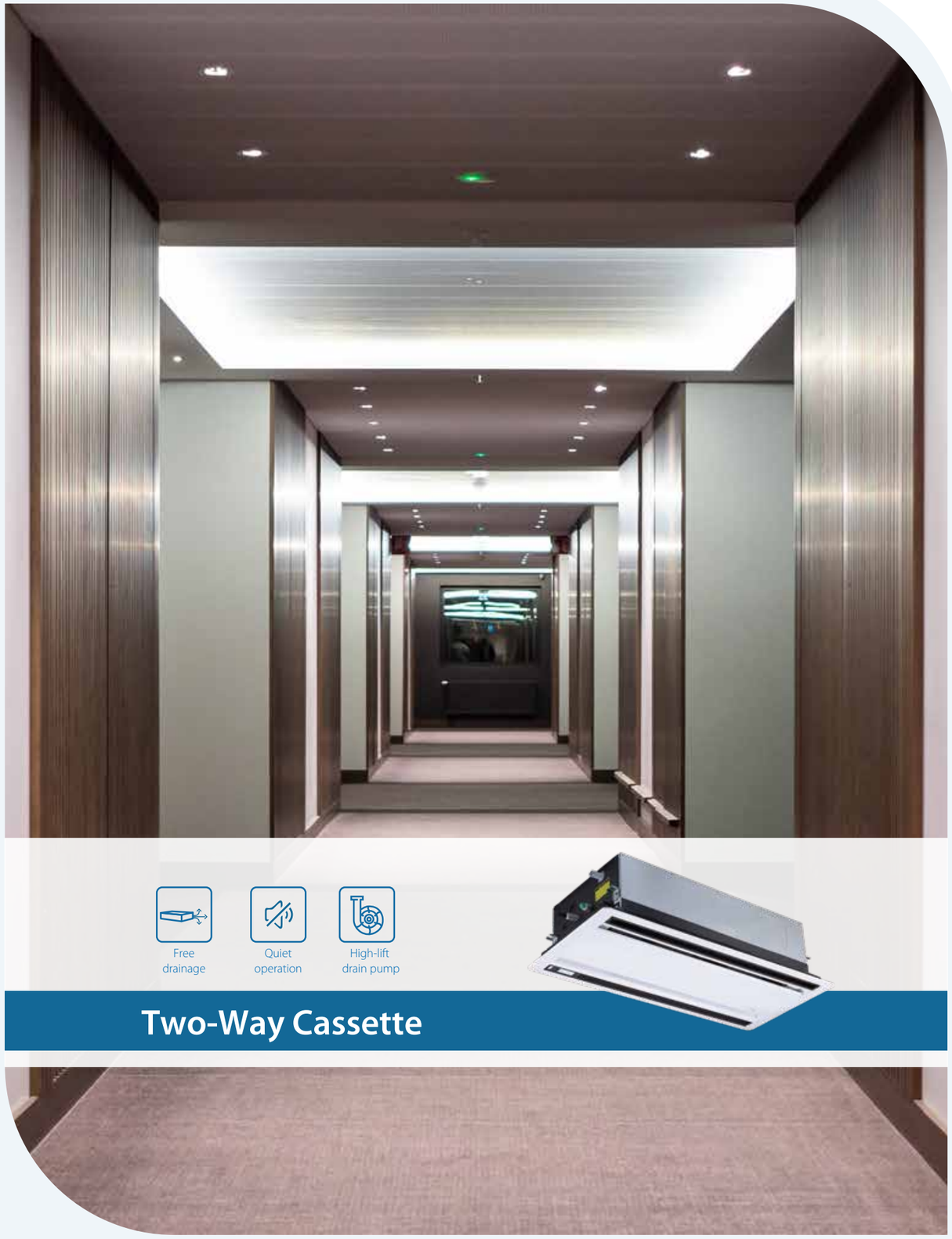
There are 5-steps louver control makes the air flow direction more precisely. In addition, the auto swing mode can better meet different customer needs. Air supply angle 25-80°.



High-lift drain pump

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





COMFORT

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.

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


Fan Motor


Drain Pump

HEALTH

Automatic anti-condensation

The Two-way Cassette can automatically enter and exit the anti-condensation mode by detecting its own operation data; In the anti-condensation mode, the machine can change the outlet angle of the guide vane intermittently to prevent the local temperature difference of the guide panel from being too large and avoid the occurrence of condensation.

0.5°C/1°C Setting Temperature Adjustment

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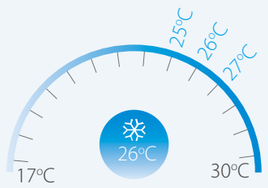
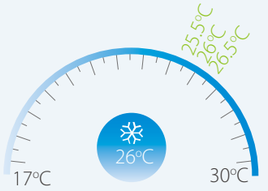
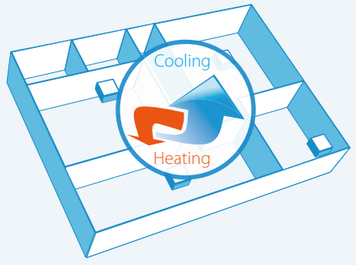




WIDER APPLICATION

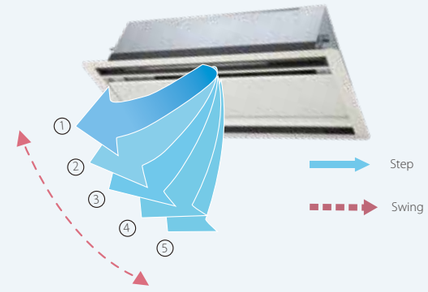
Auto Cooling-heating Changeover

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



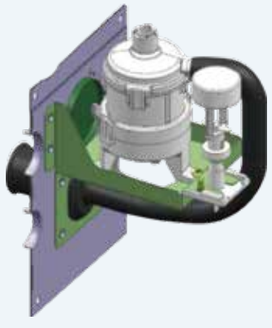
Multiple Steps Vertical Swing

There are 5-steps louver control makes the air flow direction more precisely. In addition, the auto swing mode can better meet different customer needs. Air supply angle 35-65 °.



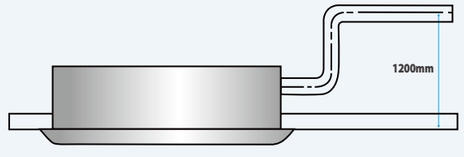
Digital feedback DC water pump

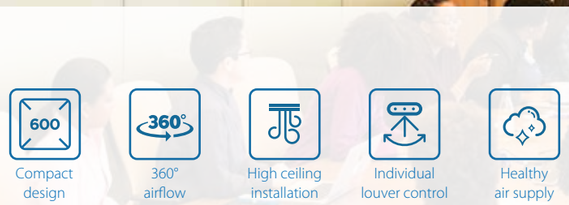
Digital feedback DC water pump: actively sense the pump speed and water flow to determine whether there is jamming attenuation or damage, and give early warning to avoid water leakage.



High-lift drain pump

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



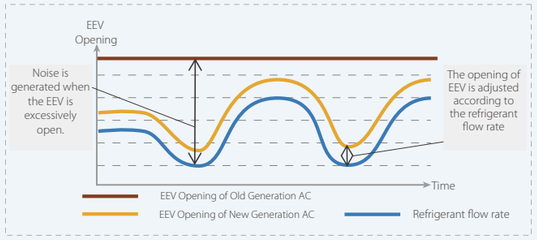


Compact Four-Way Cassette

COMFORT

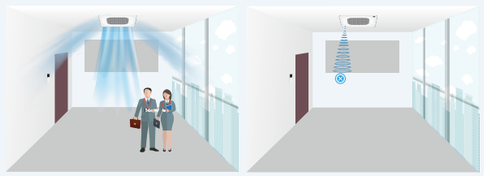
EEV automatic adjustment

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



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.



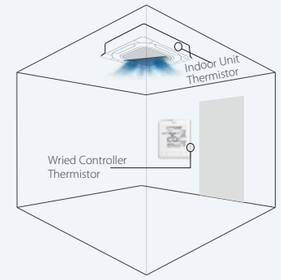
The indoor unit automatically runs when detecting human body

The indoor unit automatically stops when detecting absence

***This function is available as a customization option for V8 Compact Four Way Cassette.**

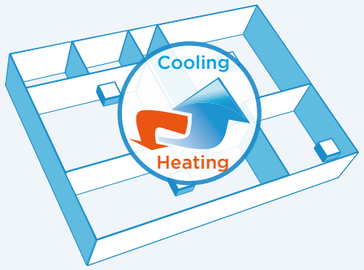
Two thermistors control

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



Auto Cooling-heating Changeover

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



AIR FLOW

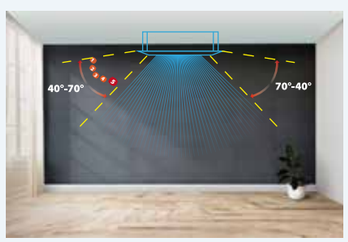
360° Airflow

New design, round airflow path ensures uniform airflow and temperature distribution.

The continuous air supply port air supply area increases by 20%

Multiple Steps Vertical Swing

The Compact Four-way Cassette unit has a wide range of airflow angles from 40° to 70° and is equipped with a 5-step louver control and auto swing mode to better meet the needs of different customers

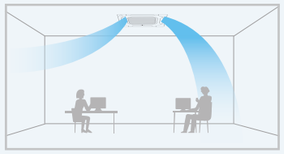


7 Fan Speeds

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

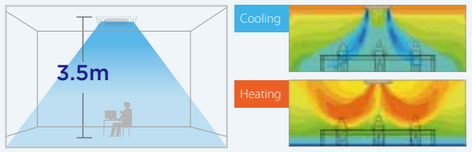
Individual Louver Control

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



Long Distance Air Delivery

The Compact Four-way Cassette has an additional 30Pa static pressure for long airflow delivery and is capable of being used in spaces up to 3.5m in floor height.



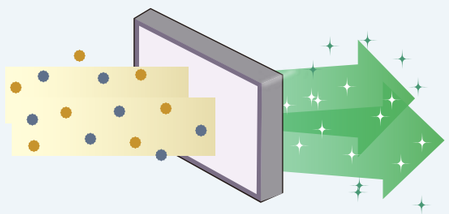
Soft Wind Mode

Supplies air against the ceiling to create windless environment.

HEALTH

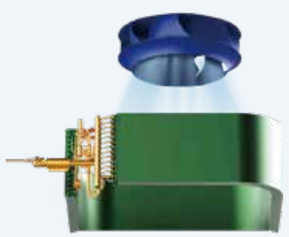
Optional F6-class Air Filter

The Compact Four-way Cassette supports 30Pa external static pressure for the F6-class filter installation. Filtering effect of the F6-class filter reaches up to 80% against particles (particle size > 1μm), creating a cleaner living environment.



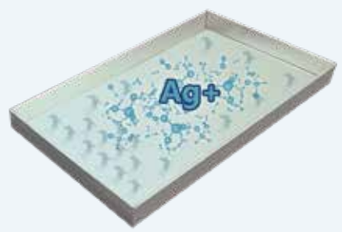
Mildew proof of heat exchanger

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.



Silver Ions drain pan (optional)

Slow-released nano-silver ions can keep the drain pan free of mold for a long time.

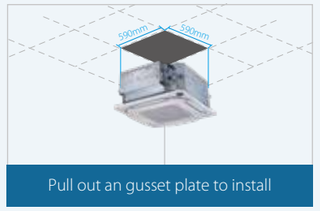


EASY INSTALLATION

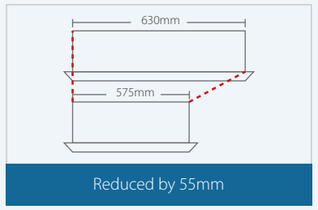
Compact and stylish design

New Compact Four-way Cassette panel size is fit into the ceiling tile(620mm × 620mm), making installation easier.

Cut ceiling tile to install



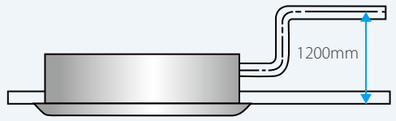
Pull out an gusset plate to install



Reduced by 55mm

High-lift drain pump

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

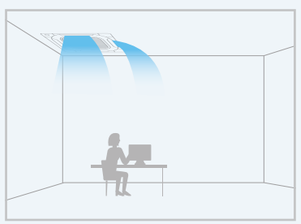


Water level switch

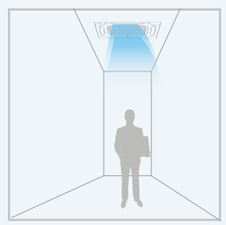
When the drain pipe is blocked or the drain pipe is poor, the water level switch is turned off, and there is no need to worry about overflowing the ceiling.

Air baffle fittings for irregular rooms

Some air discharge ports can be blocked with air baffle to optimize air distribution in irregular shaped rooms. Air outlets can be blocked with accessories, which can be found in the packing material.



At the corner



In the narrow room

360°
360° airflow

Individual louver control

Healthy air supply

Four-Way Cassette

COMFORT

EEV automatic adjustment

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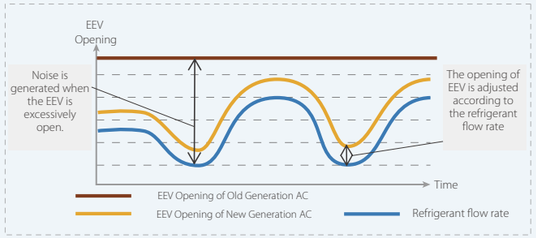
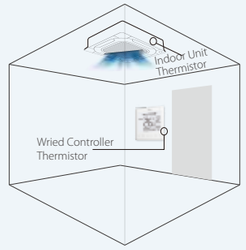


Two thermistors control

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



Human Detect Sensor*

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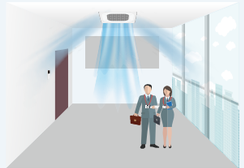


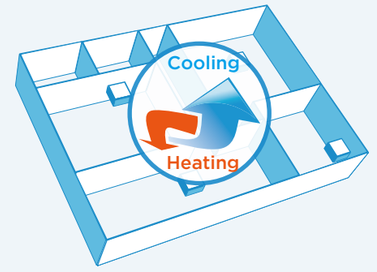
The indoor unit automatically runs when detecting human body

The indoor unit automatically stops when detecting absence

*This function is available as a customization option for V8 Four Way Cassette.

Auto Cooling-heating Changeover

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



AIR FLOW

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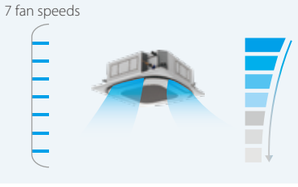

Multiple Steps Vertical Swing

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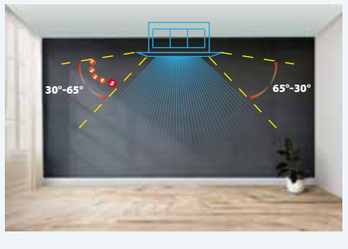

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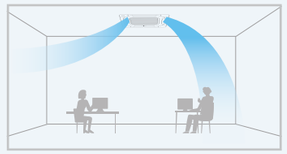

HEALTH

Mildew proof of heat exchanger

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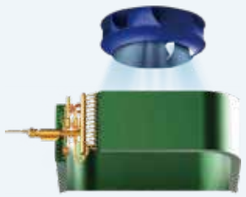
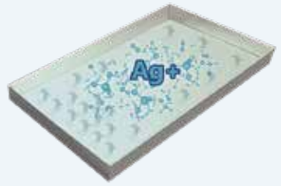


Soft Wind Mode

Supplies air against the ceiling to create windless environment.

Silver Ions drain pan (optional)

Slow-released nano-silver ions can keep the drain pan free of mold for a long time.



EASY INSTALLATION

Air baffle fittings for irregular rooms

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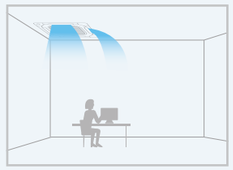
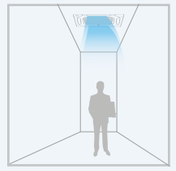


At the corner



In the narrow room

High-lift drain pump

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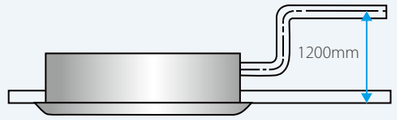


Water level switch

When the drain pipe is blocked or the drain pipe is poor, the water level switch is turned off, and there is no need to worry about overflowing the ceiling.

Ultra-thin height

Quiet operation

Healthy air supply

Constant air volume

Arc Duct

COMFORT

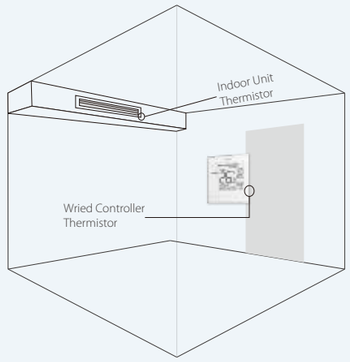
Quiet Operation

By optimizing the design of fan motor, air duct and heat exchanger, the new duct operates with noise as low as 22dB(A), creating a quieter and more comfortable environment.

- Fan motor noise reduction
- Air duct noise reduction
- Heat exchanger noise reduction

Two thermistors control

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



Auto Cooling-heating Changeover

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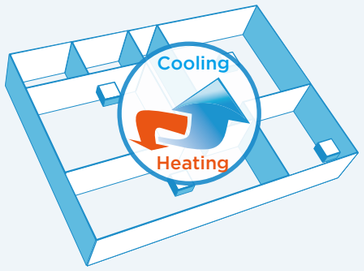
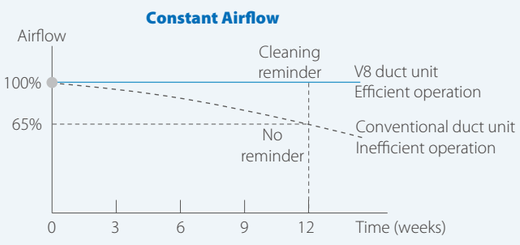


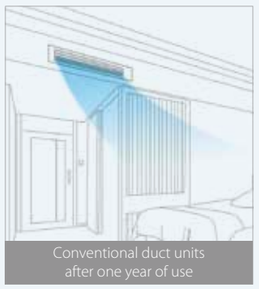
AIR FLOW

Constant Airflow

Constant airflow technology can realize the airflow output is not affected by installation conditions and use conditions, ensuring the constant airflow supply.



*Data measured in the UX lab of Midea

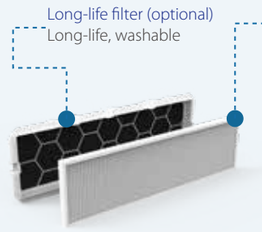

Conventional duct units after one year of use

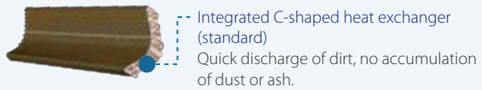

V8 duct units after one year of use

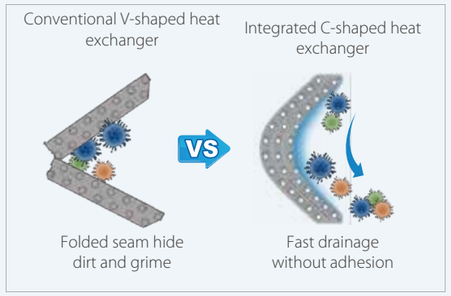
HEALTH

Healthy Air Supply

The Arc Duct unit adopts an integrated C-shaped heat exchanger that allows for fast drainage and no dust or ash accumulation. The optional long-life filter, medium-life filter and plasma sterilization module further enhance the air quality of the air supply and create a healthy environment.

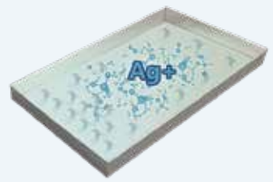






Silver Ions drain pan (optional)

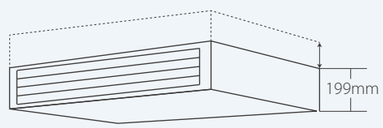
Slow-released nano-silver ions can keep the drain pan free of mold for a long time.



EASY INSTALLATION

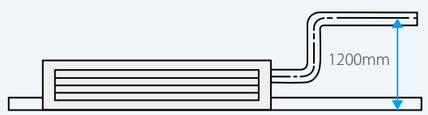
Ultra-thin Body

Ultra-thin body design, the body height of the whole series is only 199mm, greatly saving space and more flexible installation.



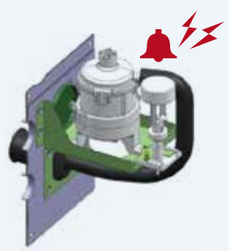
High-lift drain pump

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



Fault Feedback

Early warning of drain pump fault.



Compact design

Healthy air supply

Constant air volume

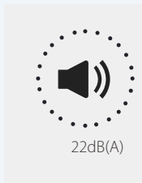
Flexible installation

Medium Static Pressure Duct

COMFORT

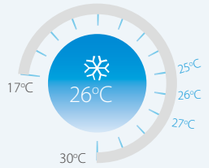
Quiet Operation

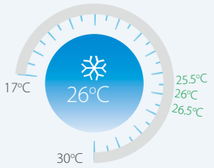
By optimizing the design of fan motor, air duct and heat exchanger, the new duct operates with noise as low as 22dB(A), creating a quieter and more comfortable environment.



0.5°C/1°C Setting Temperature Adjustment

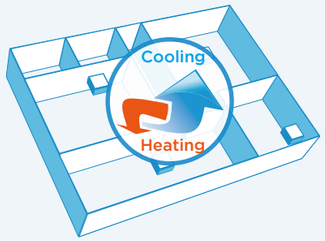
Set temperature can be adjusted in 0.5°C or 1°C steps, enabling precise comfort control.





Auto Cooling-heating Changeover

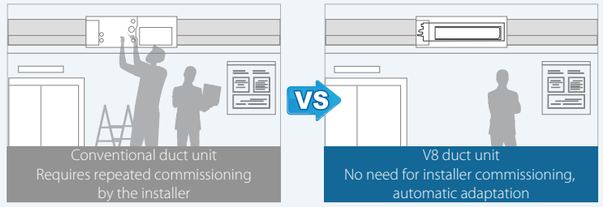
Automatically selects cooling or heating mode to achieve the set temperature.



AIR FLOW

Adaptive Duct Length and Filter Resistance

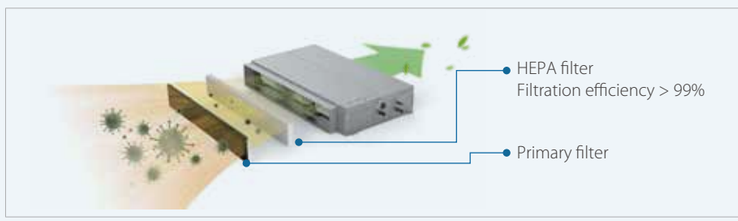
By digital fan motor and a specially designed independent drive chip enables precise control and output on demand. It can automatically adapt to duct lengths from 10 to 160 Pa equivalent static pressure without intervention from the installer.



HEALTH

Optional High Efficiency HEPA Filter*

A static pressure of up to 160 Pa enables the application of medical-grade HEPA filters, and even small capacity models can be equipped with high-efficiency filters, efficiently filtering fine particles of 0.5 microns with an efficiency of over 99%.

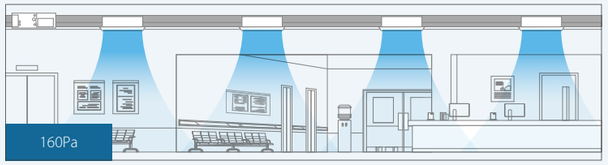


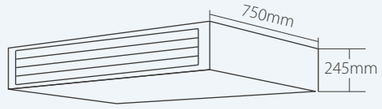
* This function is available as a customization option.

EASY INSTALLATION

Thin Body with High ESP

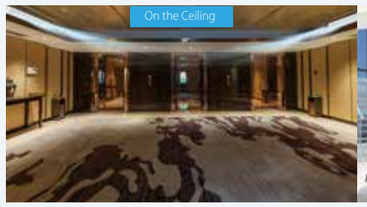
All models have a static pressure of 160 Pa and a thickness of only 245 mm. The high static pressure allows air to be delivered over longer distances without loss of cooling and heating effect. Especially suitable for long and narrow spaces.

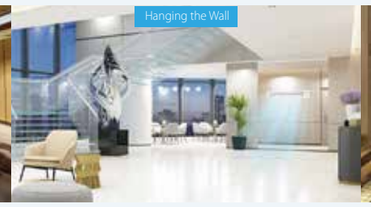


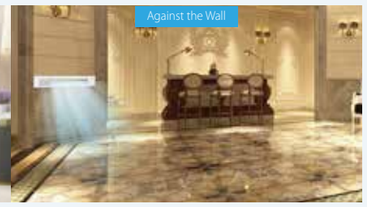


3 Way flexible installation

It is possible to install and connect the outdoor unit in 3 different ways for Duct, providing flexibility to accommodate a wide range of room designs.

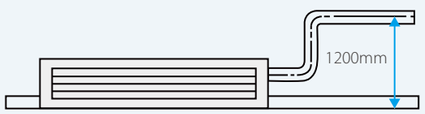






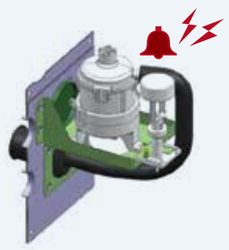
High-lift drain pump

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



Fault Feedback

Early warning of drain pump fault.



Compact design

Healthy air supply

Constant air volume

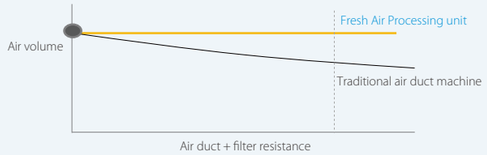
Flexible installation

High Static Pressure Duct

AIR FLOW

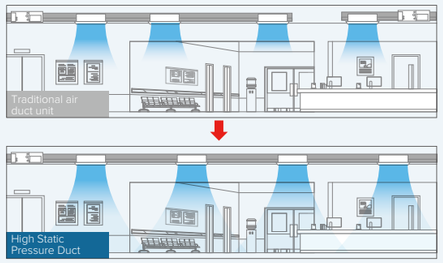
Constant Airflow Technology

Through the independent constant air volume digital fan technology, the air volume is independently detected and adjusted to realize constant air volume and no attenuation in the whole life.



Ultra-high static pressure

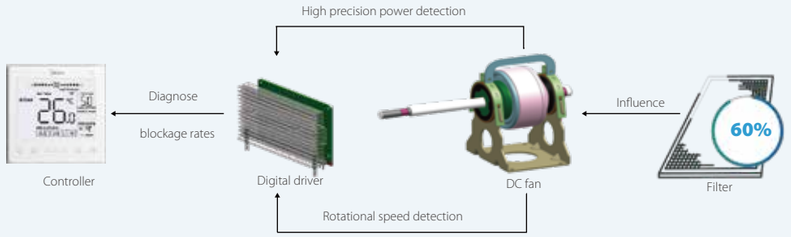
The static pressure can reach 250Pa(5.6-16kW) or 400Pa(20-56kW), so the air supply distance is longer. Especially in long and narrow spaces such as corridors, it can reduce the number of units used and save investment costs..



HEALTH

Visualization of dirty blockage rate

Built-in self-learning model can detect the real-time resistance of the filter screen and restore the true state of the filter screen. 10 levels blockage rates can be accurately identified and displayed on the controller, reminding the user to clean the filter in time.



Innovative Puro-air Kit

Protectors of health and safety

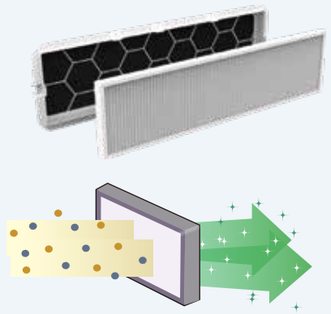
OSRAM From Germany -OSRAM quality UV light source

CE **Ozone –Free**
UV leakage-Free

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

Efficiency filter screen

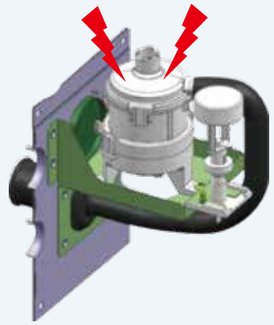
Optional F7 or H13-class air filter, Equipped with H13 HEPA high-efficiency filter screen, it can filter 0.5 micron extremely fine particles, and the primary filtration efficiency is more than 99.95%.



WIDER APPLICATION

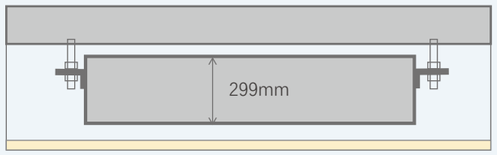
Intelligent leak feedback

Digital feedback DC water pump, Take the initiative to sense the pump speed and water flow, judge whether there is jamming attenuation or damage, and give early warning to avoid water leakage
Integrated drainage pipe design reduces the sealing points of traditional design from 6 to 2, reduces breakpoints and reduces leakage risks



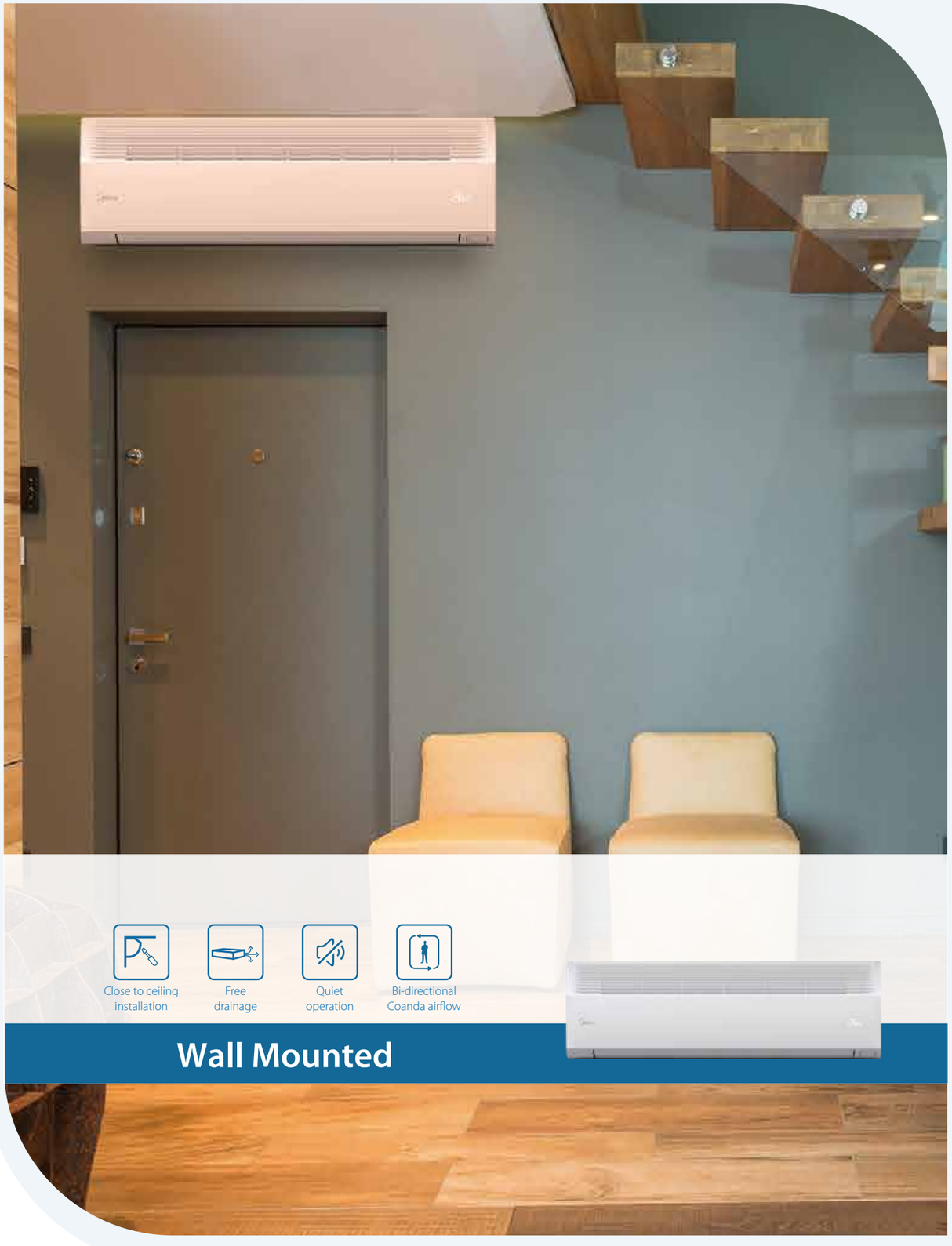
Ultra-thin fuselage

For High static pressure duct, the fuselage thickness is only 299mm,the height required for ceiling installation is greatly reduced which leads to be able to cope with more installation situations.



High-lift drain pump

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



Close to ceiling installation

Free drainage

Quiet operation

Bi-directional Coanda airflow

Wall Mounted

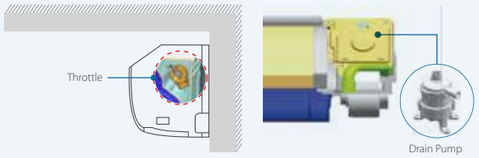
COMFORT

Quiet Operation

The minimum noise level of Wall Mounted is as low as 27dB(A), idea for hotels and other noise-sensitive locations.

Enclosed design

For Wall Mounted throttling parts and drain pumps adopt closed design, reducing noise.



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.

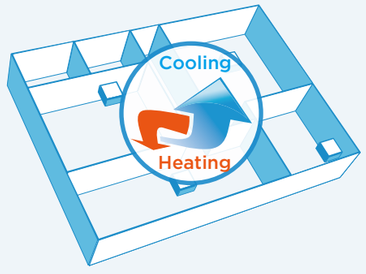
The indoor unit automatically runs when detecting human body

The indoor unit automatically stops when detecting absence

*This function is available as a customization option for V8 Wall Mounted.

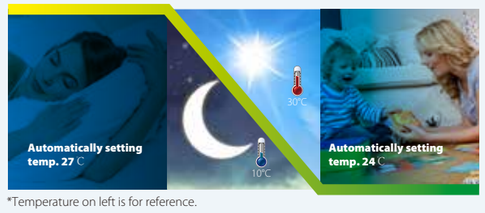
Auto Cooling-heating Changeover

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



Sleep Mode

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



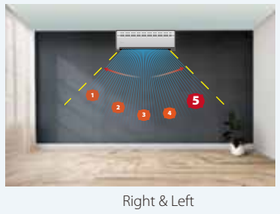
*Temperature on left is for reference.

AIR FLOW

3D Air Flow*

Possibility to select automatic vertical and horizontal moving of the air discharge louvre, for uniform air flow and temperature distribution.

Up & Down

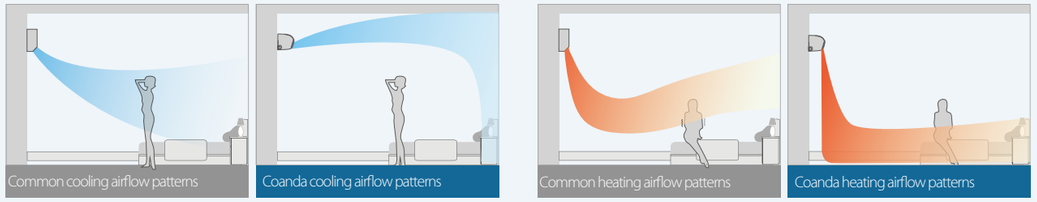


Right & Left

*Horizontal Swing function is available as a customization option for Wall Mounted.

Bi-directional Coanda Airflow

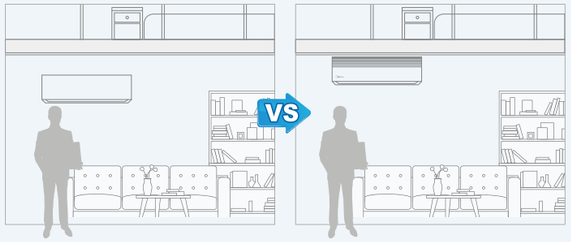
With bi-directional Coanda airflow delivery technology, the cold air does not blow directly on people and the hot air warms up evenly from the feet for better comfort.



EASY INSTALLATION

Ceiling Mounting

The Wall Mounted new heat exchanger is designed to meet the installation requirements close to the ceiling, and the minimum distance from the ceiling is 3cm.

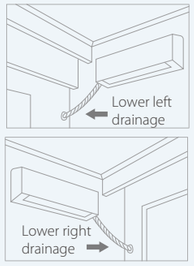


There is some distance from ceiling

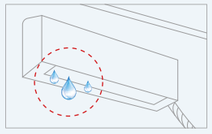
The distance from the ceiling is 3cm

Free Drainage without Space Restrictions

The Wall Mounted can realize horizontal drainage, downward drainage, upward drainage, making installation more flexible.



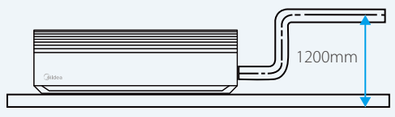
Most conventional Wall Mounted unit does not have a drain pump and the condensate pipe can only be installed underneath the unit, relying on gravity to drain the condensate to the nearest window.



When the condensate pipe is blocked, condensate can drip down onto the floor and damage it.

High-lift drain pump*

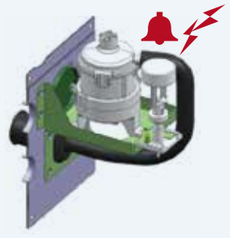
A drain pump with a 1200mm raise height is fitted as standard, simplifying installation of the drain piping.



*The drain pump is available as a customization option.

Fault Feedback

Early warning of drain pump fault.



Healthy air supply

Multi-functional Expansion

Flexible installation

Floor Standing F3-F4-F5

COMFORT

Digital Display On/Off

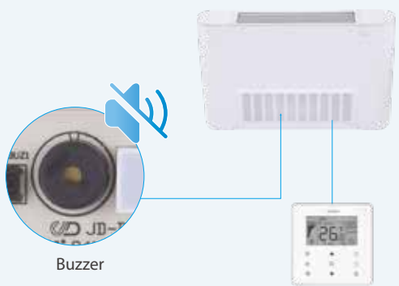
Indoor unit displays can be shut off at night, creating a better environment for rest.

Quiet Operation

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

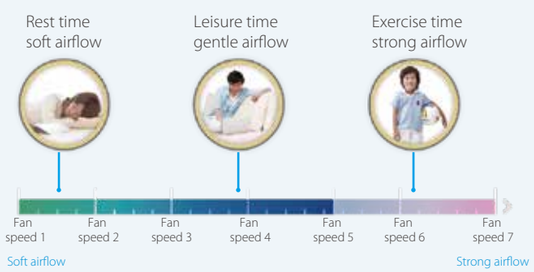
Buzzer Sound On/Off

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



Multiple Fan Speeds

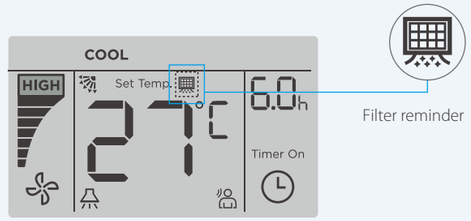
7 indoor fan speeds provide control flexibility to meet the needs of different indoor conditions.



HEALTH

Dirty Filters Indicator Signal

The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



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.

Digital Display On/Off

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

WIDER APPLICATION

Multiple Appearance Options

The Floor Standing Unit has three appearance options to meet different installation requirement, the F3B (concealed) unit is designed to be concealed in walls while the F4 (front air intake) and F5 (underside air intake) offer a choice of air intake options.

F3B (concealed)

F4 (front air intake)

F5 (underside air intake)

Specifications

One-Way Cassette

Two-Way Cassette

Compact Four-Way Cassette

Four-Way Cassette

Arc Duct

Medium Static Pressure Duct

High Static Pressure Duct

Wall Mounted

Floor Standing

Specifications

One-Way Cassette

Model name			MIH18Q1HN18	MIH22Q1HN18	MIH28Q1HN18	MIH36Q1HN18	MIH45Q1HN18	MIH56Q1HN18	MIH71Q1HN18
Power supply			1-phase, 220-240V, 50/60Hz						
Cooling[1]	Capacity	kW	1.8	2.2	2.8	3.6	4.5	5.6	7.1
		kBut/h	6.1	7.5	9.6	12.3	15.4	19.1	24.2
	Input	W	25	25	30	30	40	48	60
Heating[2]	Capacity	kW	2.2	2.6	3.2	4.0	5.0	6.3	8.0
		kBut/h	7.5	8.9	10.9	13.6	17.1	21.5	27.3
	Input	W	25	25	30	30	40	48	60
Airflow rate[3]		m³/h	380/355/330/300/286/263/240		460/440/410/380/355/330/300		693/662/638/600/556/510/476	792/763/728/688/643/589/549	933/873/815/749/689/637/592
Sound pressure level[4]		dB(A)	30/28/27/26/25/24/22		37/36/35/34/32/31/30	38/37/35/34/32/31/30	39/37/36/35/34/32/31	41/39/38/37/36/35/33	43/41/40/39/37/36/35
indoor unit	Net dimensions[5] (W×H×D)	mm	1054×153×428				1275×189×452		
	Net dimensions(no water tray) (W×H×D)	mm	1054×141×428				1275×176×452		
	Packed dimensions (W×H×D)	mm	1155×245×490				1370×295×505		
	Net/Gross weight	kg	11.5/14.5		11.8/14.8		15.8/20.2		16.9/21.4
Panel	Net dimensions (W×H×D)	mm	1180×25×465				1350×25×505		
	Packed dimensions (W×H×D)	mm	1232×107×517				1410×95×560		
	Net/Gross weight	kg	3.5/4.7				4/5.6		
Refrigerant type			R410A/R32	R410A/R32	R410A/R32	R410A/R32	R410A/R32	R410A/R32	R410A/R32
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7						Φ9.52/Φ15.9
	Drain pipe	mm	OD Φ25						

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. Each model's 7 airflow rate options are listed in order, from highest to lowest.
4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3).
   Sound pressure level is measured 1.4m below the unit in a anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.
6. These products are under development and the specifications are always subject to change.

Two-Way Cassette

Model name			MIH22Q2HN18	MIH28Q2HN18	MIH36Q2HN18	MIH45Q2HN18	MIH56Q2HN18	MIH71Q2HN18
Power supply			1-phase, 220-240V, 50/60Hz					
Cooling[1]	Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1
		kBut/h	7.5	9.6	12.3	15.4	19.1	24.2
	Input	W	35	40	40	50	69	98
Heating[2]	Capacity	kW	2.6	3.2	4	5	6.3	8
		kBut/h	8.9	10.9	13.6	17.1	21.5	27.3
	Input	W	35	40	40	50	69	98
Airflow rate[3]		m³/h	654/612/571/530/488/449/410	654/612/571/530/488/449/410	725/679/641/591/554/509/458	850/792/731/670/631/592/550	980/925/855/800/755/702/670	1200/1115/1068/1000/921/808/770
Sound pressure level[4]		dB(A)	33/31/30/29/27/25/24	33/31/30/29/27/25/24	35/33/32/30/29/27/25	37/36/35/34/32/31/30	39/37/36/35/33/31/30	44/42/41/40/38/36/34
indoor unit	Net dimensions[5] (W×H×D)	mm	1172×299×591					
	Packed dimensions (W×H×D)	mm	1355×400×675					
	Net/Gross weight	kg	29.7/36.3			31.6/38.2		
Panel	Net dimensions (W×H×D)	mm	1430×53×680					
	Packed dimensions (W×H×D)	mm	1525×130×765					
	Net/Gross weight	kg	11/15			11/15		
Refrigerant type			R410A/R32	R410A/R32	R410A/R32	R410A/R32	R410A/R32	R410A/R32
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7					Φ9.52/Φ15.9
	Drain pipe	mm	OD Φ32					

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. Air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in a anechoic chamber.
5. 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.

Specifications

Compact Four-Way Cassette

Model			MIH15Q4CHN18	MIH22Q4CHN18	MIH28Q4CHN18	MIH36Q4CHN18
Power supply			1-phase, 220-240V, 50/60Hz			
Cooling[1]	Capacity	kW	1.5	2.2	2.8	3.6
		kBtu/h	5.1	7.5	9.6	12.3
	Power input	W	14	14	16	18
Heating[2]	Capacity	kW	1.8	2.4	3.2	4.0
		kBtu/h	6.1	8.2	10.9	13.7
	Power input	W	14	14	16	18
Air flow rate[3]		m³/h	450/425/400/370/345/320/295		510/480/455/425/395/370/340	530/500/470/440/405/375/345
Sound pressure level[4]		dB(A)	29/28/27/27/26/26/25		30/29/28/27/26/26/25	31/30/29/28/27/26/25.5
Sound power level		dB(A)	40/39/39/39/38/38/38		42/41/40/39/39/38/38	42/40/39/38/38/38/38
Main body	Net dimensions[5] (W×H×D)	mm	575×235×638			
	Packed dimensions (W×H×D)	mm	690×285×690			
	Net/Gross weight	kg	13.0/15.0			14.0/16.0
Panel	Net dimensions[6] (W×H×D)	mm	620×65×620			
	Packed dimensions (W×H×D)	mm	680×80×665			
	Net/Gross weight	kg	2.3/3.0			
Refrigerant type			R410A/R32			
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7			Ø9.52/Ø15.9
	Drain pipe	mm	OD Ø25			

Model			MIH45Q4CHN18	MIH56Q4CHN18	MIH63Q4CHN18
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	4.5	5.6	6.3
		kBtu/h	15.4	19.1	21.5
	Power input	W	25	35	50
Heating[2]	Capacity	kW	5.0	6.3	7.1
		kBtu/h	17.1	21.5	24.2
	Power input	W	25	35	50
Air flow rate[3]		m³/h	640/605/570/530/495/460/425	810/765/720/670/625/580/535	905/855/805/755/705/655/605
Sound pressure level[4]		dB(A)	36.5/35/33/31/29/28/26.5	39/38/37/36/35/34/32	43/42/40/38/36/35/33.5
Sound power level		dB(A)	44/44/43/42/41/41/41	48/46/45/43/42/42/41	51/50/48/46/45/44/42
Main body	Net dimensions[5] (W×H×D)	mm	575×235×638		
	Packed dimensions (W×H×D)	mm	690×285×690		
	Net/Gross weight	kg	14.0/16.0	15.0/17.0	
Panel	Net dimensions[6] (W×H×D)	mm	620×65×620		
	Packed dimensions (W×H×D)	mm	680×80×665		
	Net/Gross weight	kg	2.3/3.0		
Refrigerant type			R410A/R32		
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7		Ø9.52/Ø15.9
	Drain pipe	mm	OD Ø25		

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. Air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. 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.
5. 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.
6. Exposed height of the panel after being installed on the ceiling.

Specifications

Four-Way Cassette

Model			MIH28Q4HN18	MIH36Q4HN18
Power supply			1-phase, 220-240V, 50/60Hz	
Cooling[1]	Capacity	kW	2.8	3.6
		kBtu/h	9.6	12.3
	Power input	W	17.0	17.0
Heating[2]	Capacity	kW	3.2	4.0
		kBtu/h	10.9	13.7
	Power input	W	17.0	17.0
Air flow rate[3]		m^3/h	790/740/691/641/591/542/492	790/740/691/641/591/542/492
Sound pressure level[4]		dB(A)	30/29/28/27.5/27/26/25	30/29/28/27.5/27/26/25
Main body	Net dimensions[5] (W×H×D)	mm	840×204×840	840×204×840
	Packed dimensions (W×H×D)	mm	940×250×940	940×250×940
	Net/Gross weight	kg	18/20.5	18/20.5
Panel	Net dimensions[6] (W×H×D)	mm	950x53x950	950x53x950
	Packed dimensions (W×H×D)	mm	1020×90×1020	1020×90×1020
	Net/Gross weight	kg	5.6/7.3	5.6/7.3
Refrigerant type			R410A/R32	
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7	Ø6.35/Ø12.7
	Drain pipe	mm	OD Ø25	

Model			MIH45Q4HN18	MIH56Q4HN18	MIH71Q4HN18
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	4.5	5.6	7.1
		kBtu/h	15.4	19.1	24.2
	Power input	W	36.0	23.0	32.0
Heating[2]	Capacity	kW	5.0	6.3	8.0
		kBtu/h	17.1	21.5	27.3
	Power input	W	36.0	23.0	32.0
Air flow rate[3]		m^3/h	910/840/770/701/631/561/491	840/791/741/692/642/593/543	1000/943/886/829/772/715/658
Sound pressure level[4]		dB(A)	37/35/34/32/30/29/27	33/32/31/30/29/28/27	37/36/34/33/31/30/28
Main body	Net dimensions[5] (W×H×D)	mm	840×204×840	840×204×840	840×204×840
	Packed dimensions (W×H×D)	mm	940×250×940	940×250×940	940×250×940
	Net/Gross weight	kg	18/20.5	19.5/22	19.5/22
Panel	Net dimensions[6] (W×H×D)	mm	950x53x950	950x53x950	950x53x950
	Packed dimensions (W×H×D)	mm	1020×90×1020	1020×90×1020	1020×90×1020
	Net/Gross weight	kg	5.6/7.3	5.6/7.3	5.6/7.3
Refrigerant type			R410A/R32		
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7	Ø6.35/Ø12.7	Ø9.52/Ø15.9
	Drain pipe	mm	OD Ø25		

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. Air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. 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.
5. 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.
6. Exposed height of the panel after being installed on the ceiling.

Specifications

Four-Way Cassette

Model			MIH80Q4HN18	MIH90Q4HN18	MIH100Q4HN18
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	8.0	9.0	10.0
		kBtu/h	27.3	30.7	34.1
	Power input	W	41.0	43.0	74.0
Heating[2]	Capacity	kW	9.0	10.0	11.2
		kBtu/h	30.7	34.1	38.2
	Power input	W	41.0	43.0	74.0
Air flow rate[3]		m^3/h	1100/1019/939/858/777/697/616	1330/1239/1148/1057/965/874/783	1470/1360/1250/1141/1031/921/811
Sound pressure level[4]		dB(A)	42.5/40/38/36/34/32/30	38/37/35/34/32/31/29	43/41/40/38/36/35/33
Main body	Net dimensions[5] (W×H×D)	mm	840x204x840	840×246×840	840×246×840
	Packed dimensions (W×H×D)	mm	940x250x940	940x295x940	940x295x940
	Net/Gross weight	kg	19.5/22	21.5/24	21.5/24
Panel	Net dimensions[6] (W×H×D)	mm	950x53x950	950x53x950	950x53x950
	Packed dimensions (W×H×D)	mm	1020x90x1020	1020x90x1020	1020x90x1020
	Net/Gross weight	kg	5.6/7.3	5.6/7.3	5.6/7.3
Refrigerant type			R410A/R32		
Pipe connections	Liquid/Gas pipe	mm	Ø9.52/Ø15.9	Ø9.52/Ø15.9	Ø9.52/Ø15.9
	Drain pipe	mm	OD Ø25		

Model			MIH112Q4HN18	MIH140Q4HN18	MIH160Q4HN18	MIH180Q4HN18
Power supply			1-phase, 220-240V, 50/60Hz			
Cooling[1]	Capacity	kW	11.2	14.0	16.0	18.0
		kBtu/h	38.2	47.8	54.6	61.4
	Power input	W	61.0	118.0	110.0	145.0
Heating[2]	Capacity	kW	12.5	16.0	18.0	20.0
		kBtu/h	42.7	54.6	61.4	68.2
	Power input	W	61.0	118.0	110.0	145.0
Air flow rate[3]		m^3/h	1600/1497/1393/1290/ 1186/1083/979	1900/1787/1673/1560/ 1446/1333/1219	2100/1900/1760/1630/ 1500/1380/1270	2300/2140/1960/1770/ 1600/1430/1270
Sound pressure level[4]		dB(A)	41/40/38/37/36/34/33	47.5/46/44/42/40/38/36.5	48/46/44/43/41/39/37	52/49/47/45/42/39/38
Main body	Net dimensions[5] (W×H×D)	mm	840×288×840	840×288×840	950×300×950	950×300×950
	Packed dimensions (W×H×D)	mm	940×335×940	940×335×940	1050× 350×1050	1050× 350×1050
	Net/Gross weight	kg	24/26.5	24/26.5	32.6/37.2	32.7/37.3
Panel	Net dimensions[6] (W×H×D)	mm	950x53x950	950x53x950	1050x55x1050	1050x55x1050
	Packed dimensions (W×H×D)	mm	1020x90x1020	1020x90x1020	1115x100x1115	1115x100x1115
	Net/Gross weight	kg	5.6/7.3	5.6/7.3	7.4/9.7	7.4/9.7
Refrigerant type			R410A/R32			
Pipe connections	Liquid/Gas pipe	mm	Ø9.52/Ø15.9	Ø9.52/Ø15.9	Ø9.52/Ø15.9	Ø9.52/Ø19.1
	Drain pipe	mm	OD Ø25			

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. Air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. 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.
5. 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.
6. Exposed height of the panel after being installed on the ceiling.

Specifications

Arc Duct

Model			MIH15T3HN18	MIH22T3HN18
Power supply			1-phase, 220-240V, 50/60Hz	
Cooling[1]	Capacity	kW	1.5	2.2
		kBtu/h	5.1	7.5
	Power input	W	21	22
Heating[2]	Capacity	kW	1.8	2.5
		kBtu/h	6.1	8.5
	Power input	W	21	22
Air flow rate[3]		m^3/h	340/335/329/320/307/298/290	370/347/339/322/314/ 306/295
External static pressure[4]		Pa	10 (10-50)	
Sound pressure level[5]		dB(A)	27/26/25.5/24.5/23.5/ 22.5/22	28/27.5/26.5/25.5/24.5/23.5/22.0
Sound power level		dB(A)	43.5/43/42.5/42/41.5/41/40	46/45/44/43/42/41/40
Unit	Net dimensions[6] (W×H×D)	mm	550×199×450	
	Packed dimensions (W×H×D)	mm	715×255×525	
	Net/Gross weight	kg	11.5/13.5	
Refrigerant type			R410A/R32	
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7	
	Drain pipe	mm	OD Ø25	

Model			MIH28T3HN18	MIH36T3HN18	MIH45T3HN18
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	2.8	3.6	4.5
		kBtu/h	9.6	12.3	15.4
	Power input	W	28	31	43
Heating[2]	Capacity	kW	3.2	4	5
		kBtu/h	10.9	13.7	17.1
	Power input	W	28	31	43
Air flow rate[3]		m^3/h	460/431/413/380/351/ 323/300	605/557/508/453/414/ 365/320	800/770/701/629/557/ 506/435
External static pressure[4]		Pa	10 (10-50)		
Sound pressure level[5]		dB(A)	30/29.5/28.5/27.5/26/24.5/22	30/29.5/28.5/27.5/ 26.5/25.5/25	33/32.5/32/30.5/29/ 27.5/26
Sound power level		dB(A)	50.5/49/47/45.5/43.5/42/40	50.5/49.5/48/47/45.5/42.5/43	52/50.5/49/47.5/46/44.5/43
Unit	Net dimensions[6] (W×H×D)	mm	550×199×450	700×199×450	900×199×450
	Packed dimensions (W×H×D)	mm	715×255×525	865×255×525	1065×255×525
	Net/Gross weight	kg	11.5/13.5	13.0/15.5	16.5/19.5
Refrigerant type			R410A/R32		
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7		
	Drain pipe	mm	OD Ø25		

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. Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
5. 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.
6. 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.

Specifications

Arc Duct

Model			MIH56T3HN18	MIH71T3HN18	MIH80T3HN18
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	5.6	7.1	8
		kBtu/h	19.1	24.2	27.3
	Power input	W	58	65	108
Heating[2]	Capacity	kW	6.3	8	9
		kBtu/h	21.5	27.3	30.7
	Power input	W	58	65	108
Air flow rate[3]		m^3/h	900/800/761/682/603/ 549/470	1145/1033/957/860/763/671/580	1400/1327/1249/1175/1095/1026/960
External static pressure[4]		Pa	10 (10-50)	10 (10-50)	20(10-80)
Sound pressure level[5]		dB(A)	36/34.5/33.5/32.5/ 31/29/27	37/35/34/32.5/31/30/29	36.5/35.5/34.5/33/ 32/31.5/30.5
Sound power level		dB(A)	56/54/52/50/48/46/44	57/55.5/54/52/50.5/49/47	57/56/54.5/53.5/52/51/49.5
Unit	Net dimensions[6] (W×H×D)	mm	900×199×450	1100×199×450	1600×199×450
	Packed dimensions (W×H×D)	mm	1065×255×525	1300×255×525	1780×250×525
	Net/Gross weight	kg	16.5/19.5	20/23.5	28/32.5
Refrigerant type			R410A/R32		
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7	Ø9.52/Ø15.9	Ø9.52/Ø15.9
	Drain pipe	mm	OD Ø25		

Model			MIH90T3HN18	MIH112T3HN18
Power supply			1-phase, 220-240V, 50/60Hz	
Cooling[1]	Capacity	kW	9	11.2
		kBtu/h	30.7	38.2
	Power input	W	108	128
Heating[2]	Capacity	kW	10	12.5
		kBtu/h	34.1	42.7
	Power input	W	108	128
Air flow rate[3]		m^3/h	1400/1327/1249/1175/1095/1026/960	1620/1522/1433/1343/1254/1170/1080
External static pressure[4]		Pa	20(10-80)	
Sound pressure level[5]		dB(A)	36.5/35.5/34.5/33/ 32/31.5/30.5	39.5/38/36.5/35/34/ 32.5/31.5
Sound power level		dB(A)	57/56/54.5/53.5/52/51/49.5	60.5/59/57.5/55.5/54/52.5/50.5
Unit	Net dimensions[6] (W×H×D)	mm	1600×199×450	1600×199×450
	Packed dimensions (W×H×D)	mm	1780×250×525	1780×250×525
	Net/Gross weight	kg	28/32.5	
Refrigerant type			R410A/R32	
Pipe connections	Liquid/Gas pipe	mm	Ø9.52/Ø15.9	
	Drain pipe	mm	OD Ø25	

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. Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
5. 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.
6. 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.

Specifications

Medium Static Pressure Duct

Model			MIH15T2HN18	MIH22T2HN18	MIH28T2HN18
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	1.5	2.2	2.8
		kBtu/h	5.1	7.5	9.6
	Power input	W	33	36	40
Heating[2]	Capacity	kW	1.8	2.5	3.2
		kBtu/h	6.1	8.5	10.9
	Power input	W	33	36	40
Air flow rate[3]		m^3/h	470/438/407/375/343/312/280	500/467/433/400/367/333/300	540/503/467/430/393/357/320
External static pressure[4]		Pa	30 (10-160)		
Sound pressure level[5]		dB(A)	26.5/26/25/24/23/22.5/22	26.5/26/25/24/23/22.5/22	26.5/26/25/24/23/22.5/22
Sound power level		dB(A)	46/44.5/43/41.5/40/38.5/37	47/45.5/44/42.5/41/39.5/38	47/45.5/44/42.5/41/39.5/38
Unit	Net dimensions[6] (W×H×D)	mm	600×245×750		
	Packed dimensions (W×H×D)	mm	765×305×890		
	Net/Gross weight	kg	18.5/21	18.5/21	18.5/21
Refrigerant type			R410A/R32		
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7		
	Drain pipe	mm	OD Ø25		

Model			MIH36T2HN18	MIH45T2HN18	MIH56T2HN18
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	3.6	4.5	5.6
		kBtu/h	12.3	15.4	19.1
	Power input	W	50	70	70
Heating[2]	Capacity	kW	4	5	6.3
		kBtu/h	13.7	17.1	21.5
	Power input	W	50	70	70
Air flow rate[3]		m^3/h	575/535/495/455/415/375/335	665/623/580/538/495/453/410	970/904/838/773/707/641/575
External static pressure[4]		Pa	30 (10-160)		
Sound pressure level[5]		dB(A)	29/28/27/26/25/23/22	33/32/29.5/28/26.5/25/24	33/32/31/30/27.5/26/25
Sound power level		dB(A)	50/48.5/47/45/43/41/39	53/51/49/47/45/43/41	55/53/51/49/47/45/43
Unit	Net dimensions[6] (W×H×D)	mm	600×245×750		800×245×750
	Packed dimensions (W×H×D)	mm	765×305×890		965×305×890
	Net/Gross weight	kg	18.5/21	19.5/22	24/27.5
Refrigerant type			R410A/R32		
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7		
	Drain pipe	mm	OD Ø25		

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. Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
5. 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 a semi-anechoic chamber.
6. 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

Specifications

Medium Static Pressure Duct

Model			MIH71T2HN18	MIH80T2HN18	MIH90T2HN18
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	7.1	8	9
		kBtu/h	24.2	27.3	30.7
	Power input	W	96	102	110
Heating[2]	Capacity	kW	8	9	10
		kBtu/h	27.3	30.7	34.1
	Power input	W	96	102	110
Air flow rate[3]		m^3/h	1150/1068/986/904/822/740/660	1355/1263/1172/1080/988/897/805	1420/1323/1225/1128/1030/933/835
External static pressure[4]		Pa	30 (10-160)	40 (10-160)	40(10-160)
Sound pressure level[5]		dB(A)	35/33.5/32/30.5/29/27.5/26	37/35.5/34/32.5/31/29.5/28	37/35.5/34/32.5/31/29.5/28
Sound power level		dB(A)	58/56/54/51.5/48/47/45	59/57/55/53/51/49/47	59/57/55/53/50.5/48/46
Unit	Net dimensions[6] (W×H×D)	mm	800×245×750	1050×245×750	
	Packed dimensions (W×H×D)	mm	965×305×890	1215×305×890	
	Net/Gross weight	kg	25/28.5	30/33.5	31/34.5
Refrigerant type			R410A/R32		
Pipe connections	Liquid/Gas pipe	mm	Ø9.52/Ø15.9		
	Drain pipe	mm	OD Ø25		

Model			MIH112T2HN18	MIH140T2HN18	MIH160T2HN18
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	11.2	14	16
		kBtu/h	38.2	47.8	54.6
	Power input	W	138	172	210
Heating[2]	Capacity	kW	12.5	16	18
		kBtu/h	42.7	54.6	61.4
	Power input	W	138	172	210
Air flow rate[3]		m^3/h	1950/1817/1683/1550/1417/1283/1150	2105/1971/1837/1703/1568/1434/1300	2350/2160/2015/1871/1776/1533/1400
External static pressure[4]		Pa	40 (10-160)	50 (10-160)	
Sound pressure level[5]		dB(A)	39/37/35/33/31/29/28	40/38/36/34/32/30/29	42/40/38/36/34/33/31
Sound power level		dB(A)	60/58/56.5/55/53.5/52/50	64/62/61.5/59.5/57.5/55/53	65/63/61/58.5/56.5/54/52
Unit	Net dimensions[6] (W×H×D)	mm	1400×245×750		
	Packed dimensions (W×H×D)	mm	1565×305×890		
	Net/Gross weight	kg	37/41.5	39/43.5	39/43.5
Refrigerant type			R410A/R32		
Pipe connections	Liquid/Gas pipe	mm	Ø9.52/Ø15.9		
	Drain pipe	mm	OD Ø25		

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. Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
5. 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 a semi-anechoic chamber.
6. 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

Specifications

High Static Pressure Duct

Model name			MIH56T1HN18	MIH71T1HN18	MIH80T1HN18	MIH90T1HN18
Power supply			1-phase, 220-240V, 50/60Hz			
Cooling[1]	Capacity	kW	5.6	7.1	8	9
		kBut/h	19.1	24.2	27.3	30.7
	Input	W	159	159	159	196
Heating[2]	Capacity	kW	6.3	8	9	10
		kBut/h	21.5	27.3	30.7	34.1
	Input	W	159	159	159	196
Airflow rate[3]		m³/h	1360/1281/1201/1122/ 1043/963/884	1360/1281/1201/1122/ 1043/963/884	1360/1281/1201/1122/ 1043/963/884	1500/1413/1325/1238/ 1150/1063/975
External static pressure[4]		Pa	80(0-250)			
Sound pressure level[5]		dB(A)	39/38/36/35/33/ 32/30	39/38/36/35/33/ 32/30	39/38/36/35/33/ 32/30	40/39/37/36/34/ 33/31
Unit	Net dimensions[6] (W×H×D)	mm	1050×299×750			
	Packed dimensions (W×H×D)	mm	1215×359×890			
	Net/Gross weight	kg	35/38.5	35/38.5	35/38.5	35/38.5
Refrigerant type			R410A/R32	R410A/R32	R410A/R32	R410A/R32
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	Φ9.52/Φ15.9		
	Drain pipe	mm	OD Φ25			

Model name			MIH112T1HN18	MIH125T1HN18	MIH140T1HN18	MIH160T1HN18
Power supply			1-phase, 220-240V, 50/60Hz			
Cooling[1]	Capacity	kW	11.2	12.5	14	16
		kBut/h	38.2	42.7	47.8	54.6
	Input	W	248	252	284	339
Heating[2]	Capacity	kW	12.5	14	16	18
		kBut/h	42.7	47.8	54.6	61.4
	Input	W	248	252	284	339
Airflow rate[3]		m³/h	2140/2015/1890/1766/ 1641/1516/1391	2150/2025/1899/1774/ 1649/1523/1398	2400/2260/2120/1980/ 1840/1700/1560	2600/2448/2297/2145/ 1993/1842/1690
External static pressure[4]		Pa	80(0-250)	100(0-250)		
Sound pressure level[5]		dB(A)	41/40/38/37/35/ 34/32	41/40/39/37/36/ 35/33	43/42/40/39/37/ 36/34	44/43/41/40/38/ 37/35
Unit	Net dimensions[6] (W×H×D)	mm	1400×299×750			
	Packed dimensions (W×H×D)	mm	1565×359×890			
	Net/Gross weight	kg	44.5/48.5	46.5/50.5	46.5/50.5	46.5/50.5
Refrigerant type			R410A/R32	R410A/R32	R410A/R32	R410A/R32
Pipe connections	Liquid/Gas pipe	mm	Φ9.52/Φ15.9			
	Drain pipe	mm	OD Φ25			

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.Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4.Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
5.Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in a anechoic chamber.
6.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.
7.All specifications are measured at standard external static pressure.

Specifications

High Static Pressure Duct

Model name			MIH200T1HN18	MIH224T1HN18	MIH252T1HN18	MIH280T1HN18
Power supply			1-phase, 220-240V, 50/60Hz			
Cooling[1]	Capacity	kW	20	22.4	25.2	28
		kBut/h	68.3	76.5	86.0	95.6
	Input	W	780	780	780	780
Heating[2]	Capacity	kW	22.5	25	26	31.5
		kBut/h	76.8	85.3	88.7	107.5
	Input	W	780	780	780	780
Airflow rate[3]		m³/h	4700/4387/4073/3760/ 3447/3133/2820	4700/4387/4073/3760/ 3447/3133/2820	4700/4387/4073/3760/ 3447/3133/2820	4700/4387/4073/3760/ 3447/3133/2820
External static pressure[4]		Pa	200(0-400)			
Sound pressure level[5]		dB(A)	51/50/48/46/44/43/42	51/50/48/46/44/43/42	51/50/48/46/44/43/42	51/50/48/46/44/43/42
Unit	Net dimensions[6] (W×H×D)	mm	1300×580×900			
	Packed dimensions (W×H×D)	mm	1530×730×1060			
	Net/Gross weight	kg	125/150	125/150	125/150	125/150
Refrigerant type			R410A/R32	R410A/R32	R410A/R32	R410A/R32
Pipe connections	Liquid/Gas pipe	mm	Φ9.52/Φ19.1		Φ12.7/Φ22.2	
	Drain pipe	mm	OD Φ32			

Model name			MIH335T1HN18	MIH400T1HN18	MIH450T1HN18	MIH560T1HN18
Power supply			1-phase, 220-240V, 50/60Hz			
Cooling[1]	Capacity	kW	33.5	40	45	56
		kBut/h	114.3	136.5	153.6	191.1
	Input	W	810	1850	1850	2030
Heating[2]	Capacity	kW	38	45	56	63
		kBut/h	129.7	153.6	191.1	215.0
	Input	W	810	1850	1850	2030
Airflow rate[3]		m³/h	4700/4387/4073/3760/ 3447/3133/2820	7500/7000/6500/6000/ 5500/5000/4500	7500/7000/6500/6000/ 5500/5000/4500	8400/7840/7280/6720/ 6160/5600/5040
External static pressure[4]		Pa	200(0-400)	300(0-400)		
Sound pressure level[5]		dB(A)	52/51/49/48/46/44/43	58/56/54/52/50/49/48	58/56/54/52/50/49/48	59/58/56/54/53/51/49
Unit	Net dimensions[6] (W×H×D)	mm	1300×580×900	1850×580×900		
	Packed dimensions (W×H×D)	mm	1530×730×1060	2080×730×1060		
	Net/Gross weight	kg	128/153	166/204	166/204	170/208
Refrigerant type			R410A/R32	R410A/R32	R410A/R32	R410A/R32
Pipe connections	Liquid/Gas pipe	mm	Φ12.7/Φ25.4	Φ12.7/Φ25.4	Φ15.9/Φ28.6	
	Drain pipe	mm	OD Φ32			

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.Fan motor speed and air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4.Stable operation external static pressure range. (Note: setting external static pressure outside the unit's optimal static pressure range may lead to higher noise levels and lower airflow rate. For the optimal external static pressure range refer to the unit's installation manual.)
5.Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 1.4m below the unit in a anechoic chamber.
6.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.
7.All specifications are measured at standard external static pressure.

Specifications

Wall Mounted

Model			MIH15GHN18	MIH22GHN18	MIH28GHN18	MIH36GHN18
Power supply			1-phase, 220-240V, 50/60Hz			
Cooling[1]	Capacity	kW	1.5	2.2	2.8	3.6
		kBtu/h	5.1	7.5	9.6	12.3
	Power input	W	18	21	24	27
Heating[2]	Capacity	kW	1.7	2.4	3.2	4
		kBtu/h	5.8	8.2	10.9	13.6
	Power input	W	18	21	24	27
Air flow rate[3]		m^3/h	460/440/420/400/380/360/340	500/470/440/410/390/370/340	540/510/470/430/400/370/340	580/540/500/460/420/380/340
Sound pressure level[4]		dB(A)	32/31/30/30/29/28/27	33/32/31/30/29/28/27	35/34/33/32/31/30/28	37/36/34/33/31/30/28
Sound power level		dB(A)	45/44/43/43/42/41/40	46/45/44/43/42/41/40	50/49/48/47/46/44/42	54/53/51/50/48/46/44
Unit	Net dimensions (W×H×D)	mm	750×295×265	750×295×265	750×295×265	750×295×265
	Packed dimensions (W×H×D)	mm	875×385×360	875×385×360	875×385×360	875×385×360
	Net/Gross weight	kg	9/11.5	9/11.5	10/12.5	10/12.5
Refrigerant type			R410A/R32			
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7	Ø6.35/Ø12.7	Ø6.35/Ø12.7	Ø6.35/Ø12.7
	Drain pipe	mm	OD Ø16	OD Ø16	OD Ø16	OD Ø16

Model			MIH45GHN18	MIH56GHN18	MIH71GHN18	MIH80GHN18
Power supply			1-phase, 220-240V, 50/60Hz			
Cooling[1]	Capacity	kW	4.5	5.6	7.1	8
		kBtu/h	15.4	19.1	24.2	27.3
	Power input	W	30	40	50	65
Heating[2]	Capacity	kW	5	6.3	8	9
		kBtu/h	17.1	21.5	27.3	30.7
	Power input	W	30	40	50	65
Air flow rate[3]		m^3/h	720/670/620/560/510/460/410	860/780/700/620/550/480/410	1220/1120/1030/940/850/750/660	1380/1260/1140/1020/900/780/660
Sound pressure level[4]		dB(A)	37/35/33/32/31/30/29	41/39/37/35/33/31/29	44/42/40/38/36/34/32	45/43/41/39/37/35/32
Sound power level		dB(A)	54/52/50/49/48/46/44	56/54/52/50/48/46/44	58/56/54/52/50/48/46	60/57/55/53/50/48/46
Unit	Net dimensions (W×H×D)	mm	950×295×265	950×295×265	1200x295x265	1200x295x265
	Packed dimensions (W×H×D)	mm	1075x385x360	1075x385x360	1315x385x360	1315x385x360
	Net/Gross weight	kg	11.5/14	11.5/14	15/18	15/18
Refrigerant type			R410A/R32			
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7	Ø6.35/Ø12.7	Φ9.52/Φ15.9	Φ9.52/Φ15.9
	Drain pipe	mm	OD Ø16	OD Ø16	OD Ø16	OD Ø16

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. Air flow rate are from the highest speed to the lowest speed, total 7 rates for each model.
4. Sound pressure level is from highest level to lowest level, total 7 levels for each model. Sound pressure level is measured 0.8m below the unit in an anechoic chamber.
5. 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.

Specifications

Floor Standing F3(concealed)

Model name			MIH22F3HN18	MIH28F3HN18	MIH36F3HN18	MIH45F3HN18	MIH56F3HN18	MIH71F3HN18	MIH80F3HN18
Power supply			1-phase, 220-240V, 50/60Hz						
Cooling[1]	Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1	8
		kBut/h	7.5	9.6	12.3	15.4	19.1	24.2	27.3
	Input	W	35	35	40	44	45	53	62
Heating[2]	Capacity	kW	2.4	3.2	4.0	5.0	6.3	8.0	9.0
		kBut/h	8.2	10.9	13.7	17.1	21.5	27.3	30.7
	Input	W	35	35	41	46	47	57	64
External static pressure[4]		Pa	0-60						
Airflow rate[3]		m^3/h	473/464/454/449/439/431/426		524/503/488/471/450/427/408	636/611/584/557/533/507/483	781/756/738/717/683/651/624	928/893/865/834/803/770/739	
Sound pressure level[4]		dB(A)	34.5/34/33.5/32.5/32/31/30.5		36.5/35.5/34.5/34/33/32/31	37/36/35/34/33/32/30	36.5/36/35/34/33.5/32.5/31.5	40.5/39.5/38.5/37.5/36.5/36/34.5	
Unit	Net dimensions[5] (WxHxD)	mm	915x470x200			1133x470x200	1253x566x200		
	Packed dimensions (WxHxD)	mm	985x555x255			1205x555x255	1325x650x255		
	Net/Gross weight	kg	16.3/20.0		16.9/20.7	20.0/24.4	24.3/30.0	26.1/31.8	
Refrigerant type			R410A/R32						
pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7					Φ9.52/Φ15.9	
	Drain piping	mm	OD Φ18.5						

Floor Standing F4/F5(Exposed)

Model name			MIH22F4HN18	MIH28F4HN18	MIH36F4HN18	MIH45F4HN18	MIH56F4HN18	MIH71F4HN18	MIH80F4HN18
Model name			MIH22F5HN18	MIH28F5HN18	MIH36F5HN18	MIH45F5HN18	MIH56F5HN18	MIH71F5HN18	MIH80F5HN18
Power supply			1-phase, 220-240V, 50/60Hz						
Cooling[1]	Capacity	kW	2.2	2.8	3.6	4.5	5.6	7.1	8
		kBut/h	7.5	9.6	12.3	15.4	19.1	24.2	27.3
	Input	W	35	35	40	44	45	53	62
Heating[2]	Capacity	kW	2.4	3.2	4	5	6.3	8	9
		kBut/h	8.2	10.9	13.7	17.1	21.5	27.3	30.7
	Input	W	35	35	41	46	47	57	64
External static pressure[4]		Pa(F4)	0-10						
		Pa(F5)	0-10						
Airflow rate[3]		m^3/h(F4)	507/490/482/466/449/450/435		532/512/501/483/466/435/414	689/663/639/608/575/560/526	934/904/888/860/821/786/764	1054/1011/992/955/924/889/841	
		m^3/h(F5)	498/486/475/464/453/441/430		508/491/474/458/441/424/407	692/665/637/610/582/555/528	811/785/759/732/706/680/653	930/895/860/825/790/755/721	
Sound pressure level[4]		dB(A)(F4)	36/35/34.5/34/33/32.5/32		38/37/36/35/34/33/32	43/42/41/40/39/38/37	41.5/41/40/39/38/37/36	46/45.5/45/44/43/42/41	
		dB(A)(F5)	32.5/32/31.5/31/30.5/30/29		35/34/33/32/31/30/29	38/37/36/35/34/32.5/31.5	35/34.5/34/33/32.5/32/31	39.5/39/38/37/36/35/34	
Unit	Net dimensions[5] (WxHxD)	mm(F4)	1020x495x200		1020x495x200	1240x495x200	1360x591x200		
		mm(F5)	1020x495x200		1020x495x200	1240x495x200	1360x591x200		
	Packed dimensions (WxHxD)	mm(F4)	1125x595x285		1125x595x285	1345x595x285	1465x695x285		
		mm(F5)	1125x595x285		1125x595x285	1345x595x285	1465x695x285		
	Net/Gross weight	kg(F4)	21.1/27.9		21.9/28.6	26.3/32.9	32.1/41.0	33.3/41.1	33.3/42.1
		kg(F5)	21.1/26.8		21.9/27.6	26.3/32.4	32.1/39.4	33.3/41.1	33.3/41.1
Refrigerant type			R410A/R32						
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7					Φ9.52/Φ15.9	
	Drain piping	mm	OD Φ18.5						

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. Fan motor speed and air flow rate are from the highest to the lowest, total 7 rates for each model.
4. 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 a anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.