V8
Indoor Unit

SMART IN ONE

Midea Building Technologies Division
Midea Group

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

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

GD MIDEA Heating & Ventilating Equipment Co. Ltd participates in the ECP programme for
VRF. Check ongoing validity of certificate: www.eurovent-certification.com

Quality Assurance
ISO 9001

Environmental Management
ISO 14001

Occupational Health and Safety Management
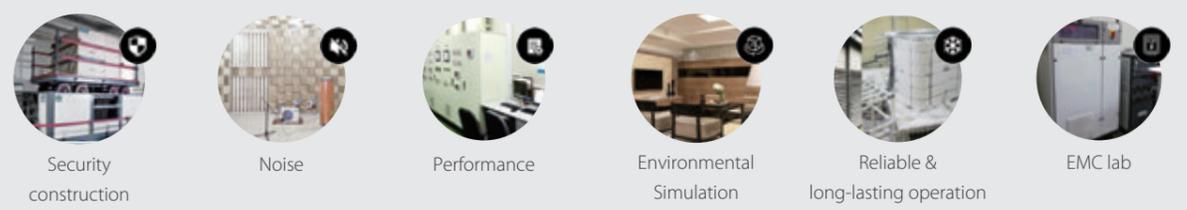**ISO 45001**

2024 (EU)

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.
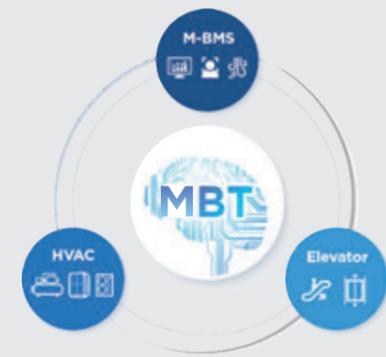
■ **4** production bases can achieve fast delivery

CLIVET
Italy
Feltre

China
Guangdong
Hefei
Chongqing

■ 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

SQA
Supplier quality

IQC
Receiving inspection of factory quality

CSI
Market quality

Digital Visual

QSM

TRS

PQC
Process inspection of factory quality

FQC
Finished product inspection of factory quality

■ **3** businesses make up the core of Midea intelligent building solutions

M-BMS

MBT

HVAC

Elevator

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.

Technical Support Platform (TSP)

TSP is a platform for customers to seek professional technical support. Through TSP, you can inquire about product information, documentation, spare parts and troubleshooting, ask technical questions, submit complaints, and order spare parts.

https://tsp.midea.com/
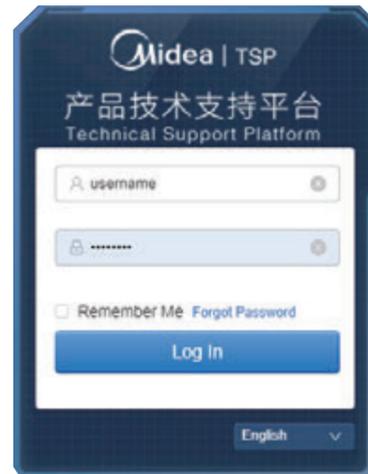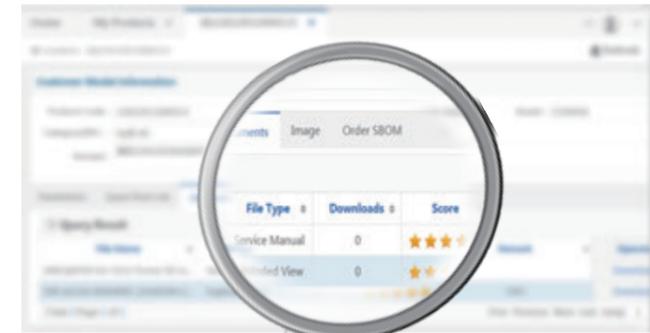
My order

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

Document inquiry and download

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

Technical inquiry & FAQ

Ask technical questions online and receive a prompt response from our technicians. Or find a quick solution in the FAQ.

Troubleshooting

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

Complain

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

Mobile Intelligence Service App (MISA)

MISA is the mobile terminal of TSP, with the same functions as TSP. The mobile service improves the response time and convenience of technical support.

https://link.midea.com

FAQ
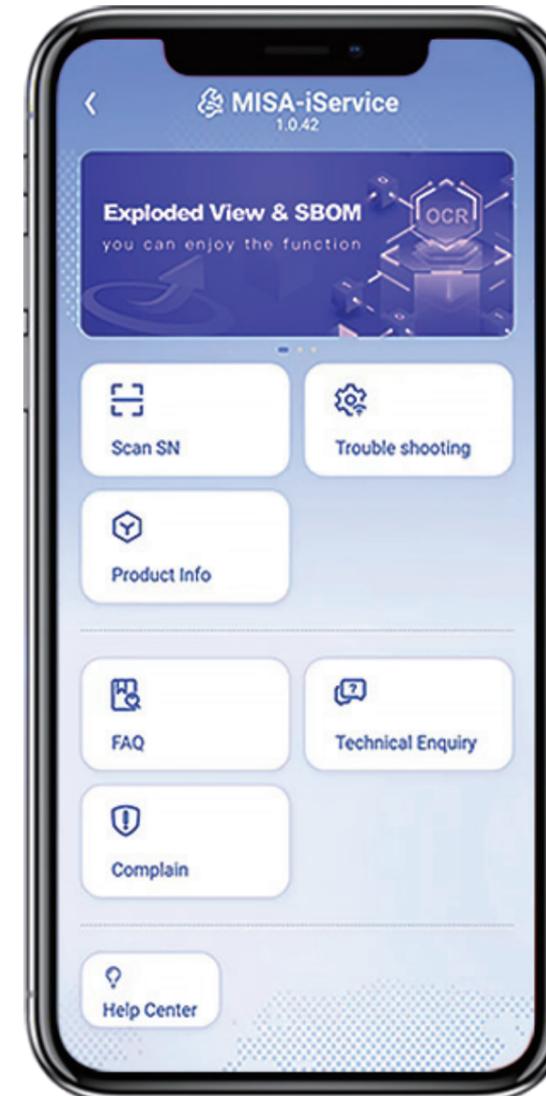
Complain

Technical Enquiry
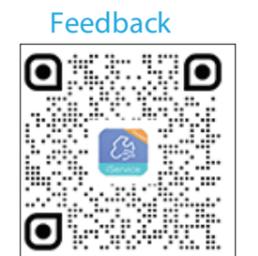
Trouble shooting

Search product manuals

Spare parts list

Download

Scan to download
the mobile app

Feedback

Thank you for your attention
and feedback

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
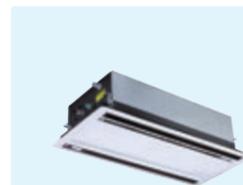Floor Standing
HRV
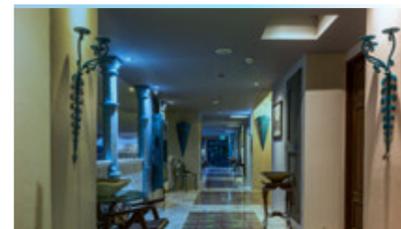Ceiling&Floor

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

■ Four-Way Cassette

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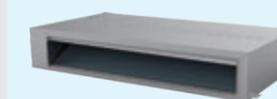- Optional medium efficiency filter

■ 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
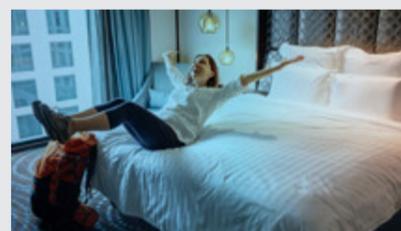
■ Medium Static Pressure Duct

- 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

■ 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

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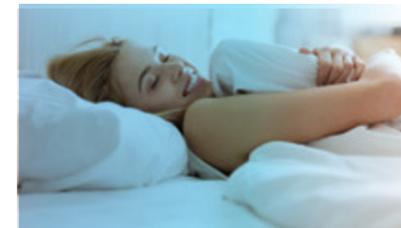
- ESP up to 60Pa(F3 concealed model)
- Three appearance options to meet different installation requirement
- DC fan creates a more quiet and comfortable environment
- 0.5℃/1℃ Setting Temperature Adjustment

■ HRV

- Multiple operation modes: Auto, Bypass, Heat recovery, Free cooling mode.
- Optional CO_2 Sensor
- Optional Multi-functional Expansion Board

■ Ceiling&Floor

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

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	5.1k	6.1k	7.5k	9.6k	12.3k	15.4k	19.1k	21.5k	24.2k	27.3k	30.7k	34.1k	38.2k	42.7k	47.8k	54.6k	61.4k
Cassette — One-Way Cassette		•	•	•	•	•	•		•								
Cassette — Two-Way Cassette			•	•	•	•	•		•								
Cassette — Compact Four-Way Cassette	•		•	•	•	•	•	•									
Cassette — Four-Way Cassette				•	•	•	•		•	•	•	•	•		•		
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	5.1k	6.1k	7.5k	9.6k	12.3k	15.4k	19.1k	21.5k	24.2k	27.3k	30.7k	34.1k	38.2k	42.7k	47.8k	54.6k	61.4k	68.3K	76.5K	86.0K	95.6K	114.3K	136.5K	153.6K	191.1K
Duct — Arc Duct	•		•	•	•	•	•		•	•	•		•												
Duct — Medium Static Pressure Duct	•		•	•	•	•	•		•	•	•		•	•	•	•									
Duct — High Static Pressure Duct							•		•	•	•		•	•	•	•		•	•	•	•	•	•	•	•
Wall Mounted — Wall Mounted	•		•	•	•	•	•		•	•															
Floor Standing — Floor Standing - Concealed			•	•	•	•	•		•	•															
Floor Standing — Floor Standing - Exposed			•	•	•	•	•		•	•															
Ceiling&Floor — Ceiling&Floor				•	•	•			•	•	•	•	•	•											

Indoor Unit Functions

Functions ●: equipped as standard; O: customization option; × : without this function		One-Way Cassette	Two-Way Cassette	Ceiling&Floor	Compact Four-Way Cassette	Four-Way Cassette	Arc Duct	Medium Static Pressure Duct	High Static Pressure Duct	Wall Mounted	Floor Standing
COMFORT & HEALTH — Quiet operation	All indoor units are quiet operation	●	●	●	●	●	●	●	●	●	●
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 indoor 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 VRF system	●	●	●	●	●	●	●	●	●	●
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 exchanger and prevent the heat exchanger from mildew	●	●	●	●	●	●	●	●	●	●
Air filter	Removes airborne dust particles to ensure a steady supply of clean air	pre-filter ●	pre-filter ●	pre-filter ●	G1 ● G3 ○ F6 ○	G1 ● G3 ○ F6 ○	G1 ● F6 ○	G1 ● G3+F7 ○ G3+H12 ○	pre-filter ● F7 ○ H13 ○	pre-filter ●	G1 ●
Fresh air intake	A reserved outside air intake port allows outdoor air to be introduced directly into the unit	4.5-7.1kW ●	●	●	●	●	●	●	×	×	×
Visualization of dirty blockage rate	Dirty blockage rate can be accurately identified and displayed on the controller	×	×	×	×	×	●	●	●	×	×
Silver Ions drain pan	Slow-released nano-silver ions can keep the drain pan free of mold for a long time.	×	×	×	○	○	○	○	○	○	×
Heat exchanger self-cleaning*	Wash the dirt on the heat exchanger through freezing frost, and then high temperature sterilization.	●	●	●	●	●	●	●	●	●	●
Humidity control	Additional humidity sensor can achieve humidity control in 35~75%	×	×	○	○	○	○	○	○	○	○
Puro-air kit	Powered by OSRAM's UVC lamps, can effectively kill bacteria, viruses and odors of indoor air	×	×	×	×	×	×	○	○	×	×
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	×	×	×	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	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 2nd generation indoor units in the system.

Indoor Unit Functions

Functions ●: equipped as standard; ○: customization option ; ×: without this function		One-Way Cassette	Two-Way Cassette	Ceiling&Floor	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 set temperature will automatically increase by 1℃ per hour (in cooling mode) or decrease by 1℃ per hour (in heating mode), with a maximum change of 2℃.	●	●	●	●	●	●	●	●	●	●
Full DC electronic components	The fan motor and water pump are DC power supply	●	●	●	●	●	●	●	●	●	●
Human Detect Sensor	Using millimeter-wave radar sensor controller automatically turns indoor units on or off upon detecting that the room is occupied or unoccupied, ensuring climate control whilst minimizing energy consumption.	×	×	○	○	○	○(1)	○(1)	○(1)	○	×
EASY Installation & Service											
Program upgrade(2)	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	● 4.5m	×	×	×	×	×
High-lift drain pump	Facilitates condensation draining from the indoor unit	●	●	○(3)	●	●	●	●	●	○	×
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	○(4)	×	○	○	○	○	○	○	○	○
Refrigerant leak sensor connection	Additional expansion board can achieve refrigerant leak sensor connection	○(4)	×	○	○	○	○	○	○	○	○
CO2 sensor connection	Additional expansion board can achieve CO2 sensor connection	○(4)	×	○	○	○	○	○	○	○	○
PM2.5 sensor connection	Additional expansion board can achieve PM2.5 sensor connection	○(4)	×	○	○	○	○	○	○	○	○
Third-party controller connection	Third party controller can realize mode, fan speed and temperature control	○(4)	×	○	○	○	○	○	○	○	○
Long-distance on/off function	Long-distance startup or shutoff the system by strong electricity external devices	○(4)	×	○	○	○	○	○	○	○	○
Long-distance alarm function	Long-distance alarm when an error occurs	○(4)	×	○	○	○	○	○	○	○	○
Multiple protections	Multiple protections make the unit run more reliably	●	●	●	●	●	●	●	●	●	●

Note:
(1). Use the display box which is equipped with a human detect sensor.
(2). 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.
(3). Only when the unit is installed on the ceiling.
(4). To achieve these functions for the One-Way Cassette unit, you need to purchase function expansion modules and install them locally.
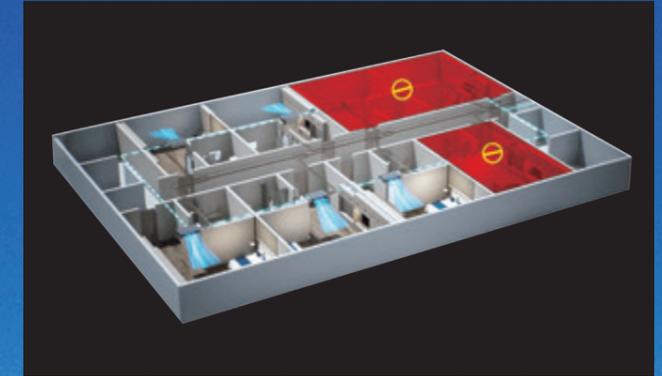
HyperLink
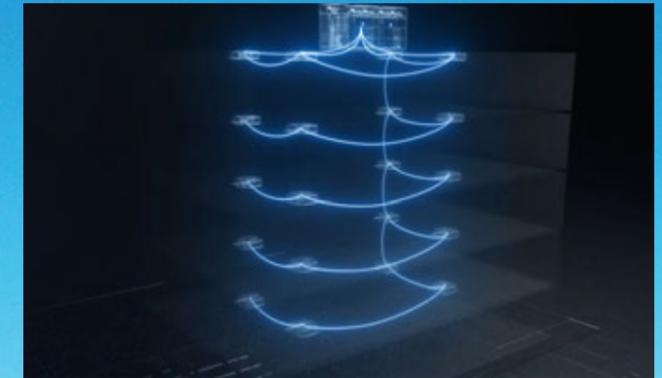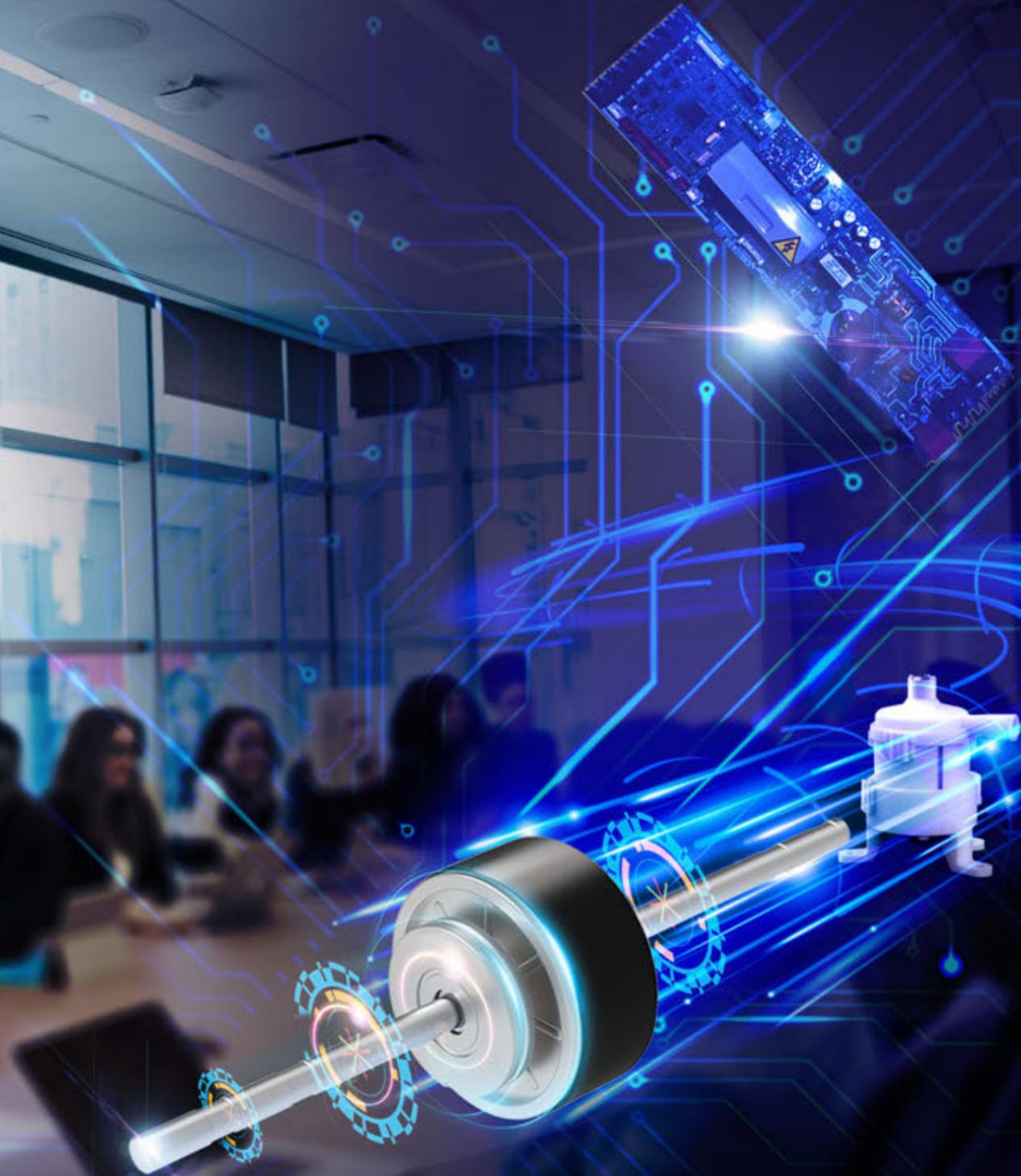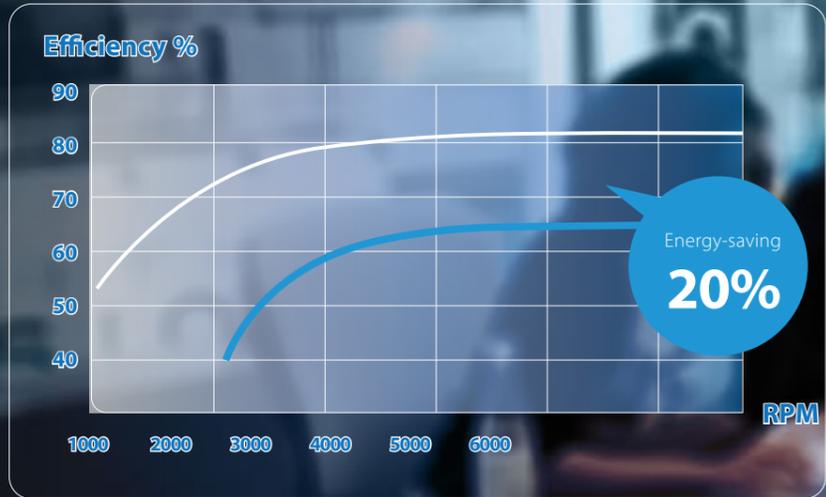
Communication distance up to **2000M**

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*

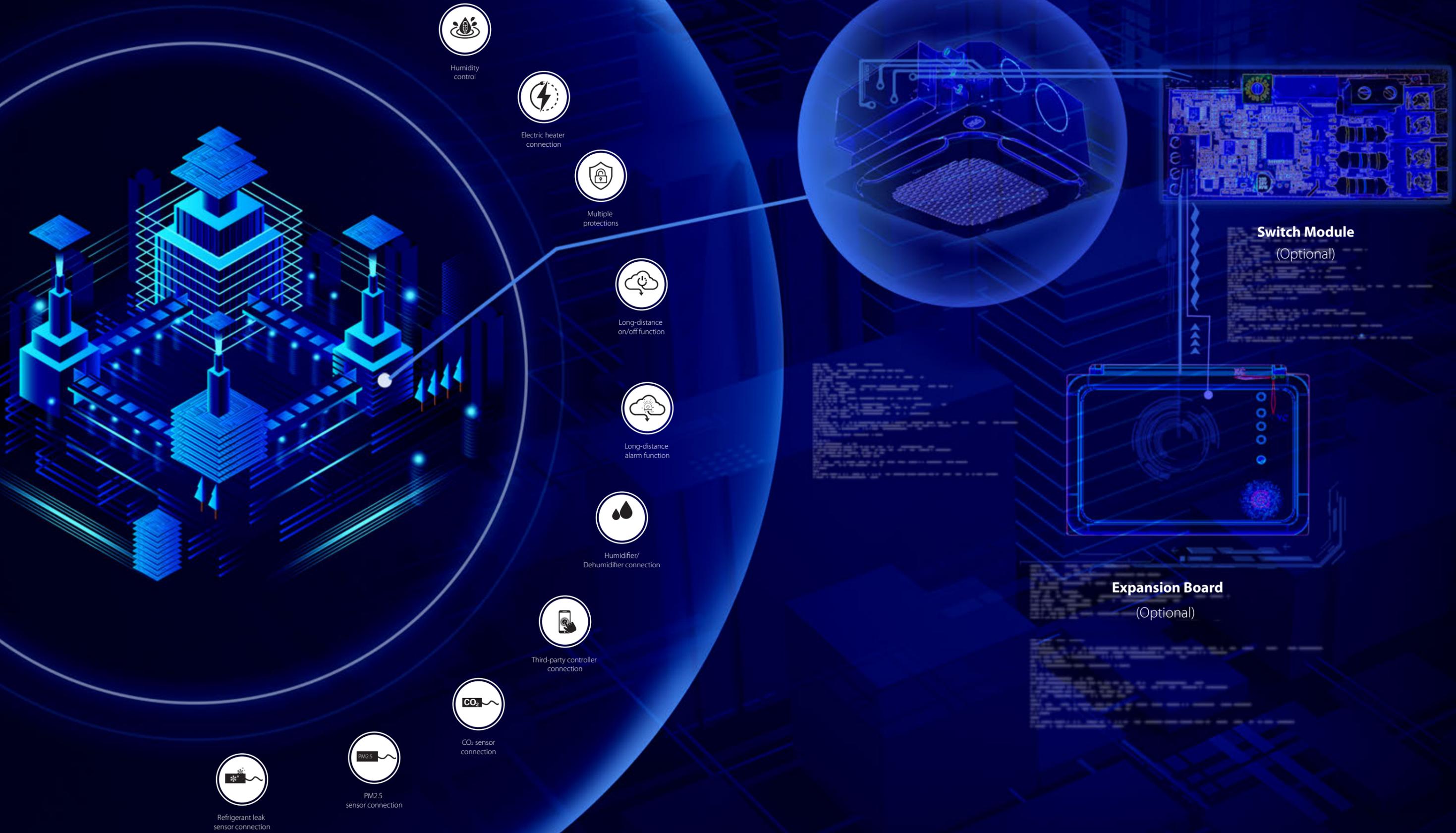* Heat exchanger self-cleaning function can be available only when V8 Mini is connected.
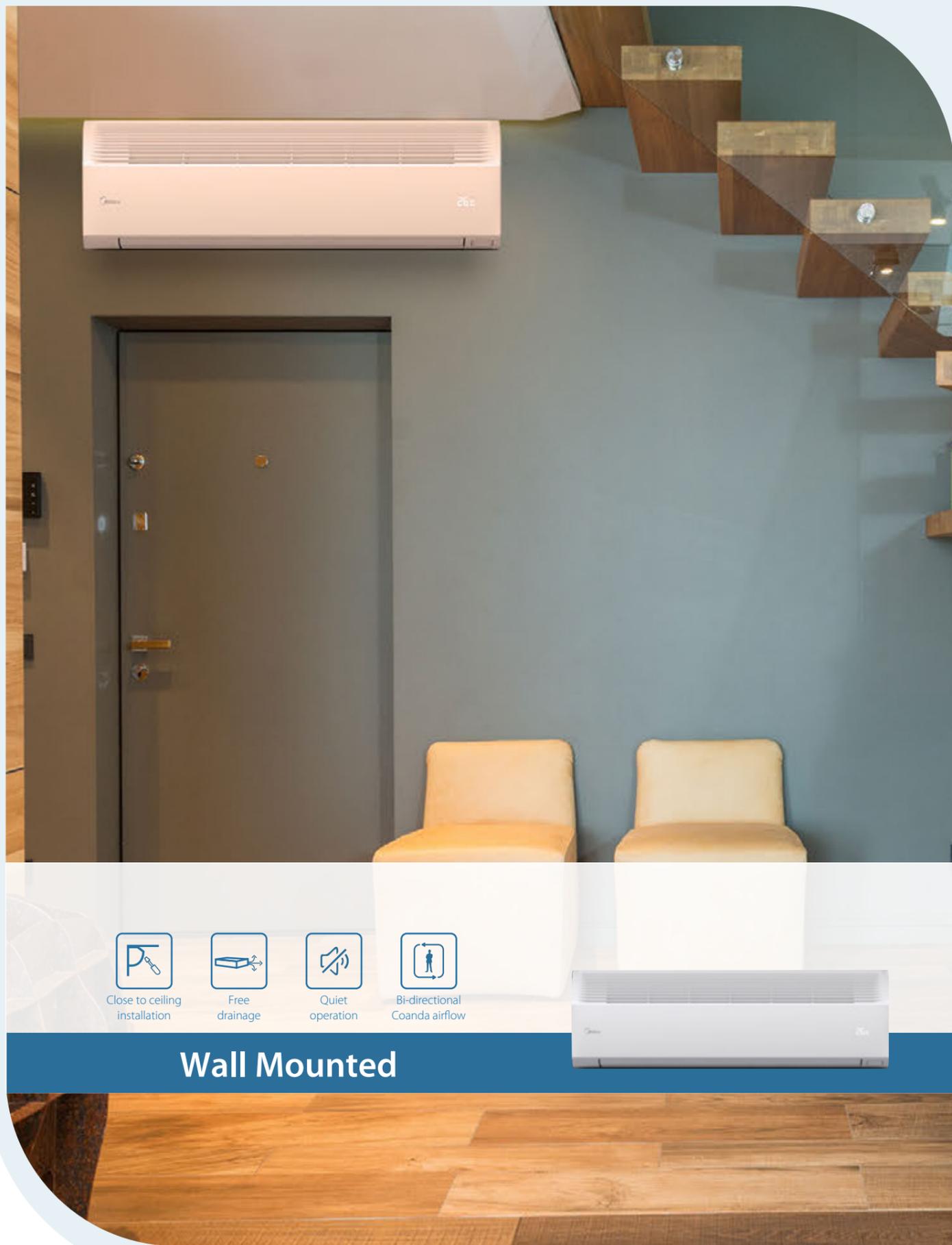
Full DC Electronic Components

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

Efficiency %

90
80
70
60
50
40

1000 2000 3000 4000 5000 6000

RPM

Energy-saving
20%

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

CO₂
CO₂ sensor connection

PM2.5
PM2.5 sensor connection

Refrigerant leak sensor connection

Switch Module
(Optional)

Expansion Board
(Optional)

Wall Mounted

Close to ceiling installation

Free drainage

Quiet operation

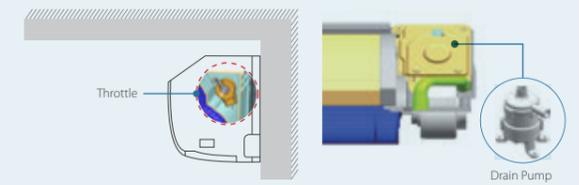Bi-directional Coanda airflow

COMFORT

Quiet Operation

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

27dB(A)
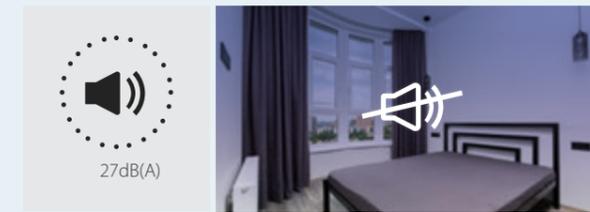
Enclosed design

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



Throttle

Drain Pump

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

120°

*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.

Cooling

Heating
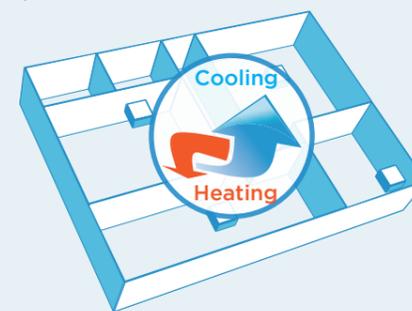
Sleep Mode

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

Automatically setting temp. 27 °C

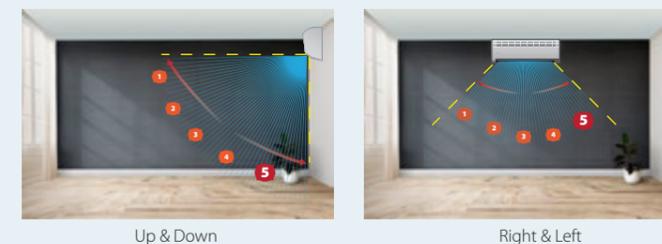Automatically setting temp. 24 °C

*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.