C-Atom202408

Midea Building Technologies Division

Midea Group

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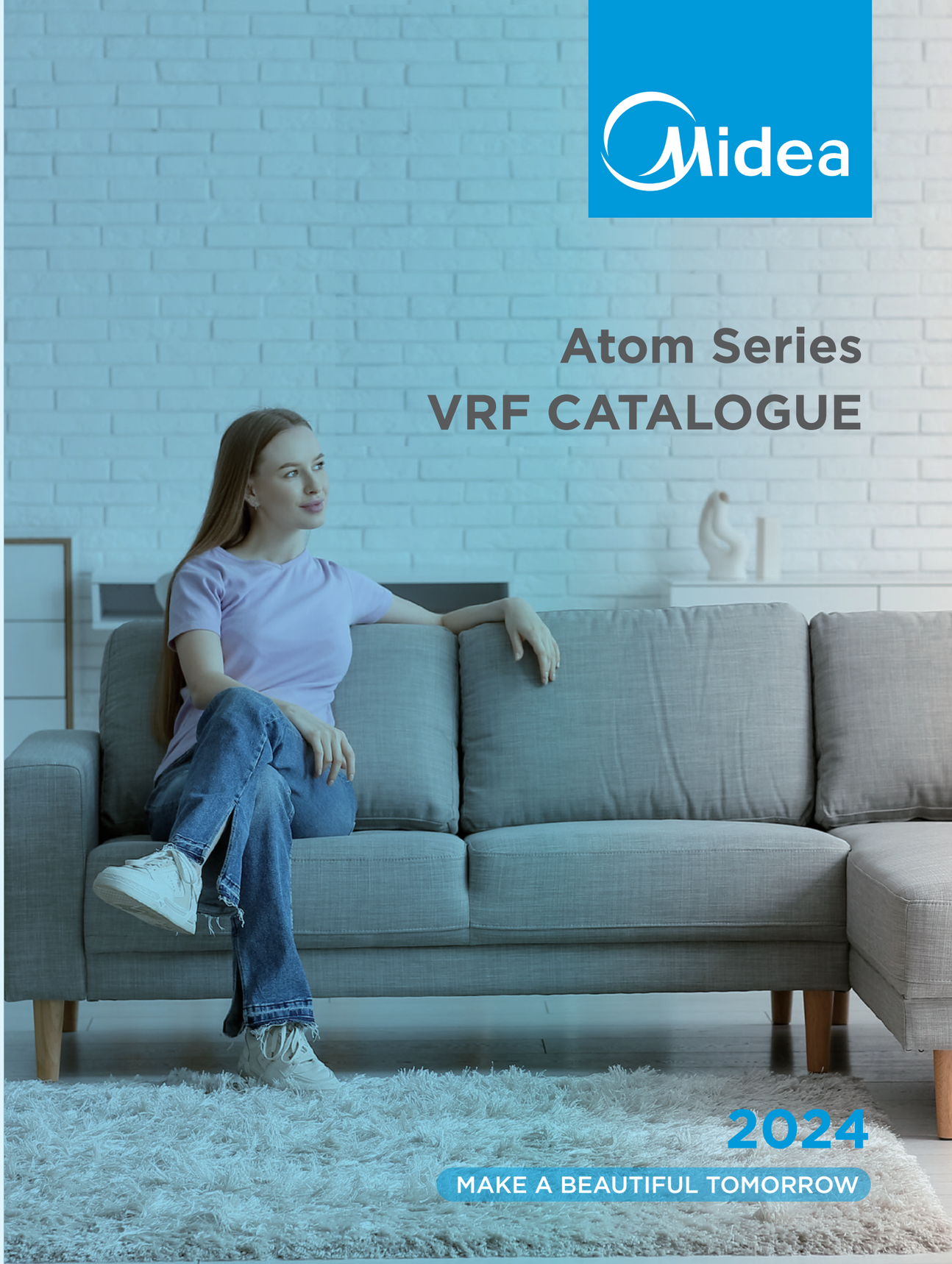
mbt.midea.com/global www.midea-group.com ics.midea.com

Midea

Atom Series VRF CATALOGUE



2024

MAKE A BEAUTIFUL TOMORROW

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.

Several production bases are situated on Shunde, Chongqing, Hefei, and Italy.
MBT Shunde: 38 product lines focusing on VRF, Split Products, Heat Pump Water Heaters and AHU/FCU.
MBT Chongqing: 14 product lines focusing on Water Cooled Centrifugal/Screw/Scroll Chillers, Air Cooled Screw/Scroll Chillers and AHU/FCU.
MBT Hefei: 11 product lines focusing on VRF, Chillers and Heat Pump Water Heaters.
Clivet S.p.A: 50,000m² workshop in Feltre and Verona, covering products such as ELFO system, hydronic, WHLP, packaged, split and close control and so on.

FORTUNE GLOBAL 500 2023

1999
Entered the building technology field

2000-2001
Cooperated with Toshiba and Copeland, enter VRF field

2008-2009
- Developed DC inverter technology with Toshiba
- Launched the DC Inverter V4 globally

2011-2012
J.V. with Carrier LA and Carrier India successively

2011-2014
Launched the DC Inverter V4 Plus Series successively, complete product lines help Midea successfully enter the mainstream VRF market

2014
Launched the All DC Inverter V5X globally, outstanding product performance helps Midea leading VRF market

2014-2015
- Won FIFA World Cup Stadiums project in Brazil Beira Rio, Olympic Games Stadiums project in Brazil
- Rio de Janeiro and Africa games Stadiums project in Congo Brazzaville successively

2016
Acquired 80% stake in Clivet

2017-2018
Launched the new generation heat pump VRF globally, leading in VRF market

2018-2019
Launched the All DC Inverter Cooling Only VC Pro VRF, ultra cool for hot regions

2020-2021
- Launched the new generation heat recovery VRF V6R Series globally, providing complete HVAC solutions and satisfying all building needs from one manufacturer
- Acquired the Chinese national brand Linvol Elevator and entered the elevator industry.
- Launched the Atom and Atom VRF

2022-2023
- Atom VRF Product lineup more comprehensive, capacity range from 12kBtu/h to 60kBtu/h.
- Launching the 8th generation V8 Series VRF with maximum capacity of single unit up to 40HP

2024
Launched the Atom VRF, capacity range from 28kBtu/h to 60kBtu/h.

Benefits of Midea VRF

Benefits for End-users

Healthy Operation

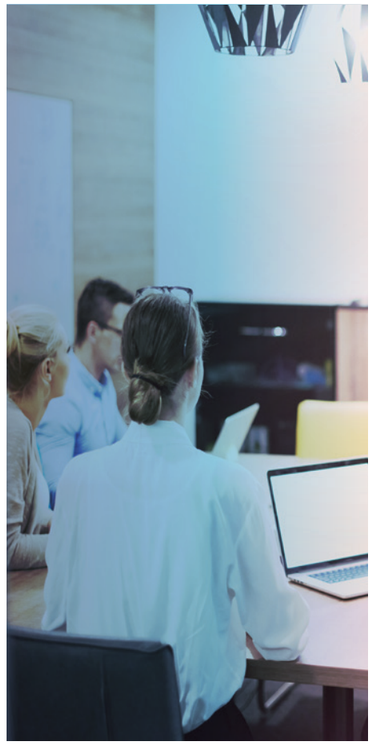
- An outside air intake port in the indoor unit allows outdoor fresh air to be introduced into indoor rooms
- Puro-Air kit, powered by OSRAM's UVC lamps, can effectively kill bacteria, viruses and odors of indoor air to provide a healthy and safe indoor environment
- PCO-kit use magnetic particles coated with TiO2nanoparticles to oxidize organic pollutants to produce harmless substances such as carbon dioxide and water

Cost Saving Operation

- Cost saving can be up to 31% through Midea META technology
- High efficiency operations thanks to the full DC inverter technology

Comfortable Environment

- 0.5°C or 1°C steps temperature setting and 7 fan speeds, providing comfortable environment
- Zen air technology ensuring comfortable in any condition
- Noise level is as low as 22dB(A), creating a quiet environment



Benefits for Building Owners

Energy Saving Management

- Centralized and unified management of all equipment, saving energy and manpower
- Remote access to CCM-15 allows anytime, anywhere control (via mobile app “M-Control”)

Reliable Operation

- The key components are made of internationally renowned brands, like Hitachi, Danfoss, FUJIKOKI, Infineon, Mitsubishi etc., enhancing better performance and guaranteeing reliable operation
- Electric control parts are produced by well-known Midea-SIIX Electronics Corporation, enhancing reliability
- Doctor M technology real-time monitoring system operation, timely self-diagnosis, ensuring stable and reliable operation

Backup Solution

- Double back-up function allowing time for maintenance or repair whilst maintaining comfort
- Maintenance mode can be activated on site during mainte nance period as the remaining indoor units continue to operate

Benefits for Consultants

Diversified Solutions

- A wide product portfolio including air cooled heat pump VRF, Air cooled heat recovery VRF, air cooled cooling only VRF and water cooled VRF
- 12 types and more 100 models of VRF indoor units to meet varied customer requirements in a wide range of locations
- Heat Recovery Ventilation and Air Handling Unit adding more options

Professional Tool and Support

- MSSP (Midea Selection Software Platform) enables an easy and quick selection and provides comprehensive system design reports and calculations
- CFD analysis helps optimize solutions and anticipate potential problems in advance
- Energy consumption analysis helps to provide optimal design solutions

Design Flexibility

- Up to 80°C hot water supply in heat recovery system
- Standard and tropical area applications
- Supporting cooling operation even at -15°C

Benefits for Construction Companies

Green Solutions

- Help earn points when applying for a LEED certificate
- Renewable energy solution provided through water cooled application

Space Saving Design

- Top class compact design, 16kW capacity with only 0.42m2 footprint which also can be hang on the wall
- Large capacity for single unit design can save space in big system

Intelligent Management

- Full compatibility with the leading BMS protocols: BACnet, LonWorks,Modbus and KNX

Application Solutions

Office Complexes

Enjoy comfort while working

Small office buildings

◆AtomB VRF
◆Medium Static Pressure Duct
◆Four-way Cassette
◆Central Controller

Meeting rooms

◆AtomB VRF
◆Compact Four-way Cassette
◆Central Controller

Residential Apartments

One for Every home

Apartments

◆AtomB VRF
◆Medium Static Pressure Duct
◆Wall-mounted Unit
◆Central Controller

Villas

◆AtomB VRF
◆Arc Series Duct
◆Remote Controller

Shops & Markets

Increase your business, not your bills

Retails

◆ AtomB VRF
◆ Ceiling & Floor Unit
◆ Central Controller

Restaurant

◆AtomB VRF
◆Medium Static Pressure Duct
◆Four-way Cassette
◆Central Controller

Markets

◆AtomB VRF
◆Medium Static Pressure Duct
◆Central Controller

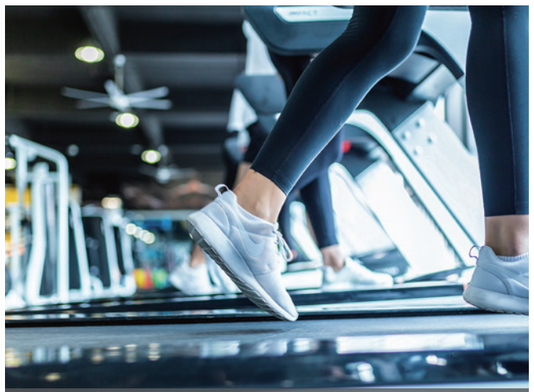
Other Applications

Meeting all expectations

Cinemas

◆AtomB VRF
◆Medium Static Pressure Duct
◆Central Controller

Gym



◆AtomB VRF
◆Medium Static Pressure Duct
◆Central Controller

MBT Learning Academy

Objective

MBT Learning Academy aims to provide training to the sales personnel as well as technical personnel in order to increase the utilization for your MBT equipment. Once you have purchased equipment from MBT, taking care of the equipment is topmost priority. MBT Learning Academy offers training courses to learn firsthand from the manufacturer what it takes to get the best out of your MBT product. The goal of MBT Learning Academy is to provide product specific training, safe work procedures and expertise in carrying out the installation and maintenance of MBT products as well as teaching the main selling points in order to help the sales people sell the MBT products with ease.

Training Centers

Our world class training centers provide knowledge and skills necessary to efficiently deploy MBT technologies.The training centers include dedicated laboratories to provide hands-on experiences with various systems, components and controls to refresh and enhance the skills of your sales, design and installation and service teams. Right now we operate our trainings from the below two locations:

1. MBT Training Center

Address: MBT Training Center, 2nd Floor, Building 6, Midea Global Innovation Center, Beijiao , Shunde, Foshan, China Pin- 528311

The Midea MBT Training Center is situated 70 kilometers from Baiyun Guangzhou International Airport.

Products: VRF, M thermal

2. Chongqing Midea Training Center

Address: No. 15, Qiangwei Road, Nan'an District, Chongqing, China

Chongqing Midea Training Center is 35 kilometers from Chongqing International Airport.

Products: Centrifugal Chiller, Screw/Scroll Chiller and Terminals

VRF training

M thermal training

Chiller training

Global Technical Trainings

The training courses by MBT Learning Academy are divided into the following two categories with different targeted audiences for each.

Design and Application Trainings: The design and application trainings for various products are basically for the sales personnel selling MBT products in order to give them basic understanding about the main features. The trainings are conducted on a global level inviting sales engineers, technical engineers, consultants and project designers from different parts of the world.

After Sales- Service Trainings: These trainings are dedicated for the After Sales/ Service personnel in order for them to better carry out the installation, commissioning and maintenance of MBT products. Technical person and engineers from different parts of the world are invited to take part in these trainings.

Online Trainings: The trainings to the Global customers can also be done online with the help of Team and Midea Meeting software. This way, the customers do not need to be physically present for the training. Amid the COVID-19 pandemic, MBT Learning Academy has conducted a lot of online trainings. The training videos are available on the TSP system and can be downloaded by using QR codes.

Products: VRF, M thermal, Chillers and Terminals

Highly Skilled Trainers: The trainers for various courses by MBT Learning Academy are expert people with vast experiences in their field. Most of them have a deep insight about the global HVAC market and help the attendees to better understand the MBT products.

Training Certificates:
The attendees for Global trainings are provided a training certificate highlighting the courses discussed in the training, signed by Mr. Henry Cheng, General Manager of MBT Overseas Sales Company.

Registration:
You can contact your respective Midea contact point to provide you with the complete schedule about the global technical trainings as well as how to register for these trainings.

For further enquiries about the Global Trainings conducted by MBT Learning Academy, please send email at the following email address:
peeyush@midea.com

Technical Support Platform (ICS)

ICS is a platform for customers to provide professional technical support. Through ICS, 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.

APAC：*https://ics.midea.com/*
EMEA：*https://ics-eu.midea.com/*
Americas：*https://ics-amer.midea.com/*

My order

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

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.

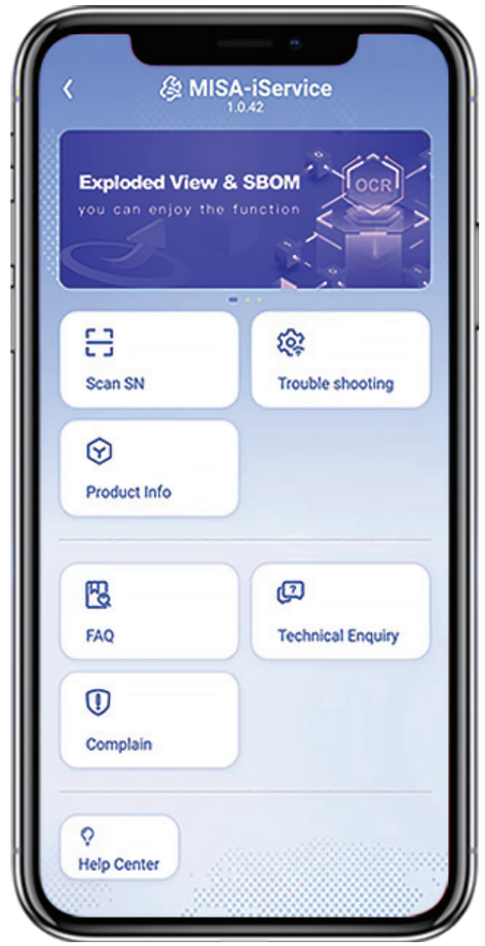
https://link.midea.com

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

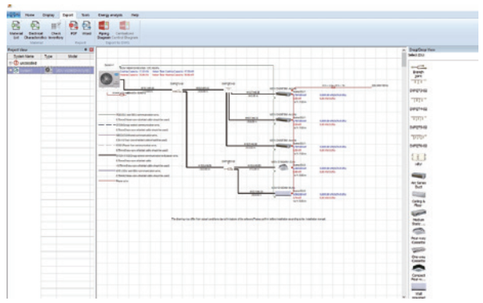
Engineering Capability
Midea Tool and Support

Midea dedicated to provide the best HVAC engineering supportand solutionsfocused oneffectively designed, built,supervised, and maintained throughout the lifecycle, providing our customers a faster,easier, and a more accurate way in everyday duties.

MSSP-Drag/Drop Design

MSSP-Drag/Drop design enables an easy and quick selection and provides comprehensive system design reports and calculations.

Note: MSSP (Midea Selection Software Platform)

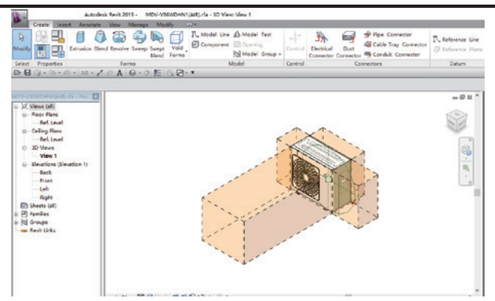


Flash AC Design APP

Flash AC design can quickly select a design solution according to different applications through the mobile phone, provide design report and simple quotation.

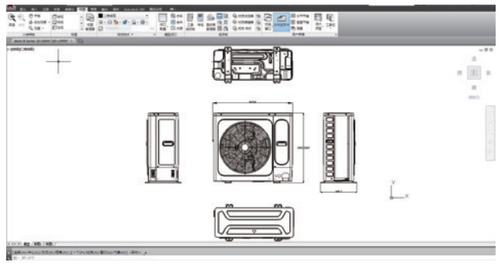
Revit Family

Midea revit is developed to make 3D design of Midea products easier than the previous program. It enables engineers to check 3D images from design stage and prevents possible issues of the installation stage.



CAD Drawing

CAD enables faster and a more accurate design of Midea products.

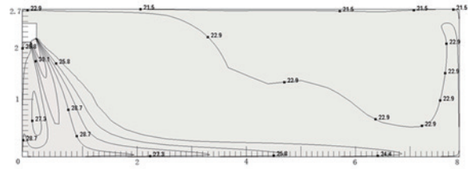


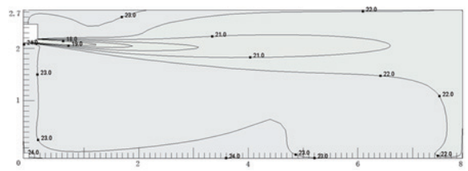
SIMULATION

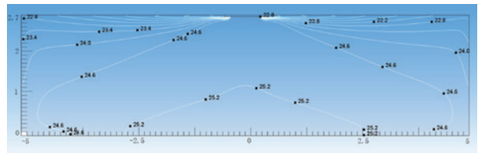
CFD (Computational Fluid Dynamics)

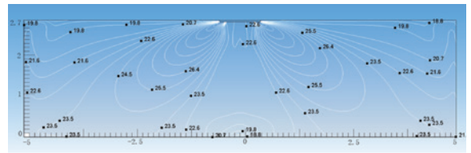
CFD Analysis is applied in areas of estimating: indoor airflow and temperature distribution. By running a simulation before construction, engineers estimate possible issues and find optimal solutions of malfunction that could occur after construction.

Temperature distribution

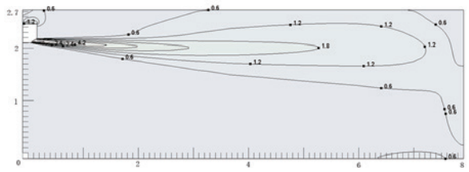


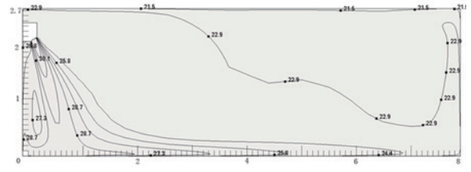


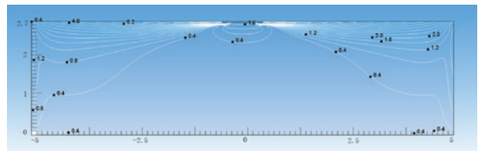


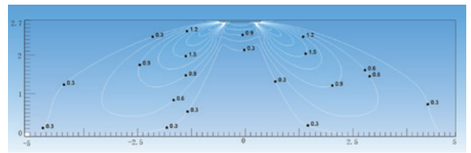


Airflow distribution





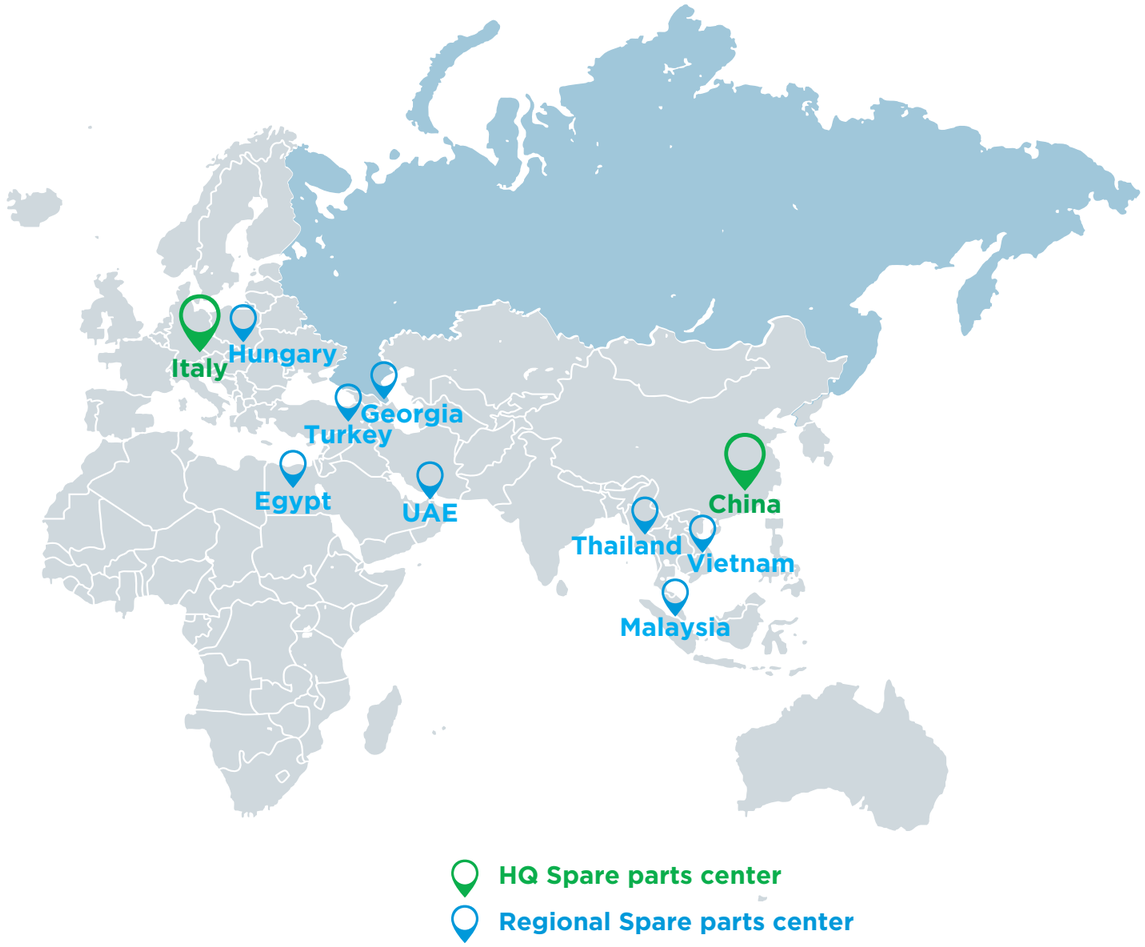




Midea Global Spare Parts Center

The global spare parts center provides high quality and fast spare parts supply. Midea online system (https://ics.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.



INDEX

01

V8 Atom
INDOOR UNITS

02

INDOOR UNITS

03

CONTROL SYSTEMS

OUTDOOR UNITS

AtomB Series

AtomC Series

Atom VRF Outdoor Unit

kW	Btu/h	AtomB				AtomC	
Power supply		220-240V 1Ph 50(60)Hz					
Image							
3.5	12K	●					
5.3	18K	●					
6.2	21K	●					
8	28K		●			●	
10	36K		●			●	
12	42K			●		●	
14	48K			●			●
16	56K			●			●
18	60K				●		●

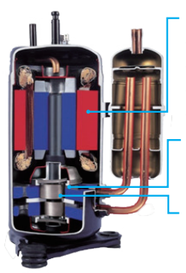
Outdoor Unit Functions

Function		AtomB	AtomC
High Efficiency	Full inverter compressors	●	●
	Full DC fan motors	●	●
High Reliability	Anti - corrosion protection	●	●
	Refrigerant cooling PCB	●	●
	Auto dust-clean function	×	●
Enhanced Comfort	Intelligent defrosting technology	●	×
	Silent mode	●	●
	Multiple priority modes	●	●
Easy Installation and Service	Auto addressing	●	●
	Long piping length	●	●
	All flare connections	●	●
	Saving more installation space	●	●
	Easy transportation	●	●
	Modbus function	×	●

HIGH EFFICIENCY, HIGH RELIABILITY

DC Inverter Compressor

DC inverter compressors make the output of the outdoor unit to be modulated by the cooling or heating demands of the zone that it controls. This advanced system ensures precise temperature regulation and highly efficient energy usage, making a significant contribution to the environment.



DC Compressor (Twin Rotary)

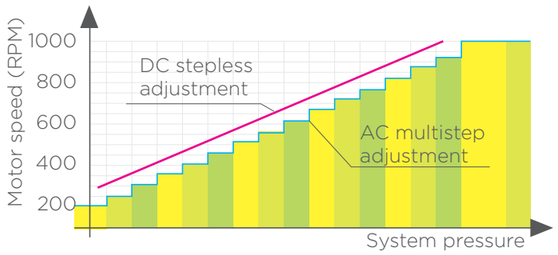
Highly Efficient DC Motor:
- Creative motor core design
- High density neodymium magnet
- Concentrated type stator
-Wider operating frequency range

Better Balance and Extremely Low Vibration:
- Twin eccentric cams
- 2 balance weights

Highly Stable Moving Parts:
- Optimal material matching rollers and vanes
-Optimize compressor drive technology
- Highly robust bearings
-Compact structure

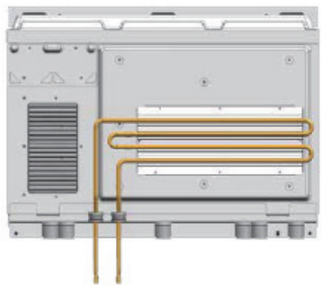
DC Fan Motor

DC fan motor features in DC stepless adjustment ,maintaining system with the minimum power consumption, which offer you best comfort and less cost.



Refrigerant Cooling PCB

The unit uses refrigerant cooling technology to cool the electric control box. It decreases the average temperature of electrical control components by about 8 degrees, guaranteeing the stable and safe running of the control system.



Multiple Protection Function

Multiple protection function, such as temperature protection, current protection, pressure protection, compressor overload protection, etc., ensuring the system consistently safe and reliable operation.

Temperature protection

Current protection

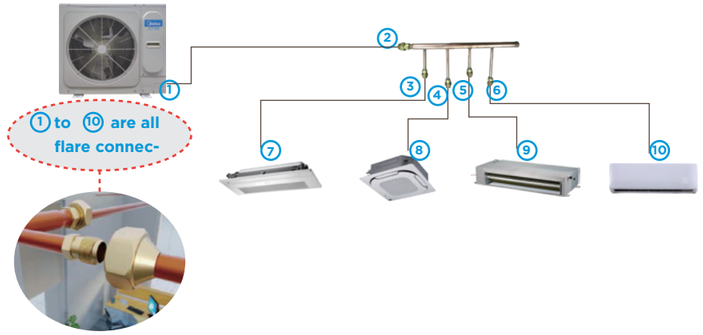
Pressure protection

Compressor overload protection

EASY INSTALLITON, EASY SERVICE

All Flare Connections, The Easiest VRF to Install

VRF system uses all flare connection which can greatly simplify installation. The multiple branch header with 1 to 2, 3, 4,5 or 6 options further simplify installation.

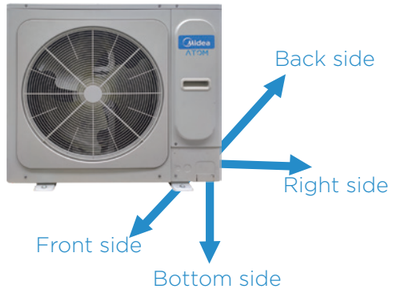


Less Required Space for VRF Installation

There's only one pipe for Atom VRF to connect indoor and outdoor units, which not only includes less special pipe and punching needs, but also reduces pipes space. In this way, there would be less occupied space for VRF installation.

Four-Way Piping Connection

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

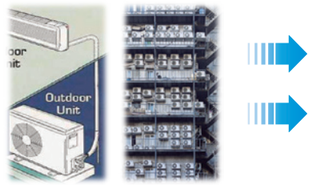


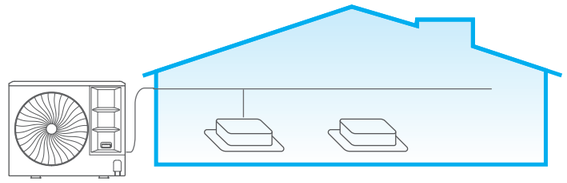
Auto Addressing

Outdoor units can distribute addresses to indoor units automatically. Remote and wired controllers can be used to query or modify each indoor unit's address.

Space Saving

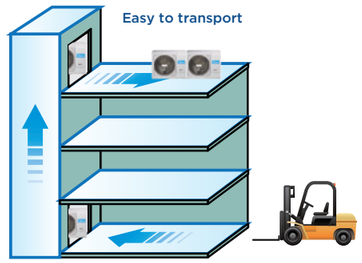
One VRF outdoor unit can connect 1 to 9 indoor units, which greatly saves the installation space of outdoor units and retains buildings' original aesthetics. compared to the traditional split AC. It is very suitable for use in residential and light commercial scenarios, such as villas, restaurants, small and medium-sized supermarkets, etc.





Easy Transportation

Atom Series VRF can be transported by elevator which makes installation dramatically easy, and effectively reduces time and labor thanks to the small size.



AtomB Series Heat Pump

Perfect for commercial and residential applications

- Capacity Up to 60kBtu/h
- Connectable Indoor Units Quantity up to 9
- Refrigerant Cooling PCB
- Precise Oil Control Technology
- All Flare Connections, The Easiest VRF to Install

WIDE APPLIACATION RANGE

Wide Capacity Range

AtomB's capacity is from 12kBtu/h to 60kBtu/h. The wide capacity range adapt to more conditions. It can help to freeing up considerable space outside by less number of outdoor units.

12/18/21kBtu/h

28/36kBtu/h

42/48/56kBtu/h

60kBtu/h

1 to 9 Indoor Units Connection

A single outdoor unit supports 1 to 9 indoor units, freeing up considerable space outside. Use your backyard more wisely with much more space available created by less number of outdoor units

Wide Range of Indoor Units

V8 Atom indoor units including Four-way cassette, Compact Four-way cassette, Duct and Wall mounted. The capacity is from 5kBtu/h to 48kBtu/h. Multiple types of indoor units to meet varied indoor requirements.

Four-way cassette

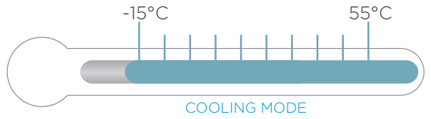
Compact Four-way cassette

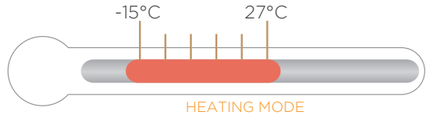
Duct

Wall mounted

Wide Operation Range

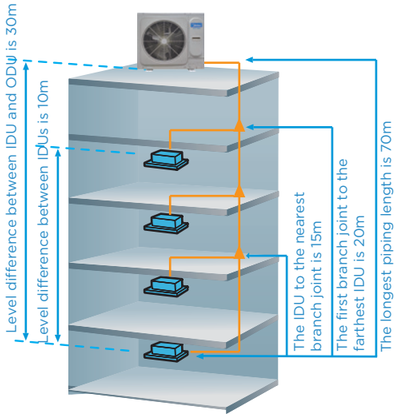
The VRF system operates stably under extreme conditions, ranging from minus -15°C to 55°C.





Long Piping Length

The AtomB series Mini VRF provides a total piping length possibility of 130m, a maximum height difference between outdoor and indoor units of 30m. The height difference between indoor units can be up to 10m. These generous allowances facilitate an extensive array of system designs.



	Permitted value(m)		12/18/21kBtu/h	28kBtu/h	36/42kBtu/h	48/56/60kBtu/h
Pipe Length	Total Pipe Length(Actual)		50	70	90	130
	Longest Piping	Actual Length	25	35	45	60
		Equivalent Length	30	40	50	70
	Pipe Length (IDU to the nearest branch)		20	20	20	20
Level Difference	Level difference between IDU-ODU	Outdoor Unit Up	10	10	20	30
		Outdoor Unit Down	10	10	20	20
	Level difference between IDU-IDU		10	10	10	10

AtomB Series - Heat Pump

220-240V/1Ph/50(60)Hz

Model			MDV-V12WDHN1(AtB)	MDV-V18WDHN1(AtB)	MDV-V21WDHN1(AtB)
Power supply		V-Ph-Hz	220-240/1/ 50(60)		
Cooling[1]	Capacity	kBtu/h	12	18	21
		kW	3.5	5.3	6.2
	Input	kW	0.94	1.47	1.85
	EER	kW/ KW	3.71	3.6	3.35
Heating[2]	Capacity	kBtu/h	13	20	20.5
		kW	3.8	5.8	6
	Input	kW	0.88	1.35	1.41
	COP	kW/ kW	4.43	4.3	4.25
Connectable indoor unit	Total capacity		45-130% of outdoor unit capacity		
	Quantity		1-3	1-3	1-3
Compressor	Type		DC inverter	DC inverter	DC inverter
	Quantity		1	1	1
Fan	Motor type		DC motor	DC motor	DC motor
	Quantity		1	1	1
	Output	W	65	65	65
Outdoor air flow		m3/h	2500	2700	2700
Sound pressure level[3]		dB(A)	53	54	55
Net dimensions (W×H×D)		mm	795 x 555 x 365	795 x 555 x 365	795 x 555 x 365
Packed dimensions (W×H×D)		mm	915 x 610 x 420	915 x 610 x 420	915 x 610 x 420
Net weight		kg	35	35	35
Gross weight		kg	38.5	38.5	38.5
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	g	1450	1450	1450
	Throttle type		Electronic expansion valve		
Pipe connections	Liquid pipe	mm	Φ6.35	Φ6.35	Φ9.53
	Gas pipe	mm	Φ12.7	Φ12.7	Φ15.9
Ambient Temp. operation range	Cooling	°C	-15-55		
	Heating	°C	-15-27		

Model			MDV-V48WDHN1(AtB)	MDV-V56WDHN1(AtB)	MDV-V60WDHN1(AtB)
Power supply		V-Ph-Hz	220-240/1/ 50(60)		
Cooling[1]	Capacity	kBtu/h	47	52	59
		kW	14	15.5	17.5
	Input	kW	3.97	4.87	6.12
	EER	kW/ KW	3.53	3.18	2.86
Heating[2]	Capacity	kBtu/h	54	61	66
		kW	16	18	19.5
	Input	kW	3.98	4.82	5.57
	COP	kW/ kW	4.02	3.73	3.5
Connectable indoor unit	Total capacity		45-130% of outdoor unit capacity		
	Quantity		1-8	1-9	1-9
Compressor	Type		DC inverter	DC inverter	DC inverter
	Quantity		1	1	1
Fan	Motor type		DC motor	DC motor	DC motor
	Quantity		1	1	1
	Output	W	170	170	170
Outdoor air flow		m3/h	5200	5000	5300
Sound pressure level[3]		dB(A)	56	56	57
Net dimensions (W×H×D)		mm	950×840×440	950×840×440	1040×865×523
Packed dimensions (W×H×D)		mm	1025×950 ×510	1025×950×510	1120×980×560
Net weight		kg	75	77.5	90.5
Gross weight		kg	82	84.5	91
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	g	3100	3600	4600
	Throttle type		Electronic expansion valve		
Pipe connections	Liquid pipe	mm	Φ9.53	Φ9.53	Φ9.53
	Gas pipe	mm	Φ15.9	Φ19.1	Φ19.1
Ambient Temp. operation range	Cooling	°C	-15-55		
	Heating	°C	-15-27		

Model			MDV-V28WDHN1(AtB)	MDV-V36WDHN1A(AtB)	MDV-V42WDHN1A(AtB)
Power supply		V-Ph-Hz	220-240/1/ 50(60)		
Cooling[1]	Capacity	kBtu/h	27	34	42
		kW	8	10	12.3
	Input	kW	2.1	2.66	3.39
	EER	kW/ KW	3.81	3.76	3.63
Heating[2]	Capacity	kBtu/h	30	41	47
		kW	9	12	14
	Input	kW	2.04	3.15	3.64
	COP	kW/ kW	4.41	3.81	3.85
Connectable indoor unit	Total capacity		45-130% of outdoor unit capacity		
	Quantity		1-4	1-6	1-7
Compressor	Type		DC inverter	DC inverter	DC inverter
	Quantity		1	1	1
Fan	Motor type		DC motor	DC motor	DC motor
	Quantity		1	1	1
	Output	W	80	80	170
Outdoor air flow		m^3/h	3750	5200	5000
Sound pressure level[3]		dB(A)	54	54	56
Net dimensions (W×H×D)		mm	910×712×426	910×712×426	950×840×440
Packed dimensions (W×H×D)		mm	1048×810×485	1048×810×485	1025×950×510
Net weight		kg	49	52.5	62.5
Gross weight		kg	53	56.5	69.5
Refrigerant	Type		R410A	R410A	R410A
	Factory charge	g	1700	2600	3200
	Throttle type		Electronic expansion valve		
Pipe connections	Liquid pipe	mm	Φ9.53	Φ9.53	Φ9.53
	Gas pipe	mm	Φ15.9	Φ15.9	Φ15.9
Ambient Temp. operation range	Cooling	°C	-15-55		
	Heating	°C	-15-27		

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;connect to Cassette type indoor unit.
2.Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference;connect to Cassette type indoor unit.
3. Sound pressure level is measured at a position 1m in front of the unit and 1m above the floor in a semi-anechoic chamber.

AtomC Series Cooling Only

Perfect for commercial and residential applications

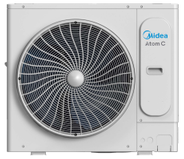
- Capacity Up to 60kBtu/h
- Connectable Indoor Units Quantity up to 9
- Refrigerant Cooling PCB
- All Flare Connections, The Easiest VRF to Install
- Advanced Silent Technology
- Modbus Function

WIDE APPLIACATION RANGE

Wide Capacity Range

AtomC's capacity is from 28kBtu/h to 60kBtu/h. The wide capacity range adapt to more conditions. It can help to freeing up considerable space outside by less number of outdoor units.

28/36/42kBtu/h



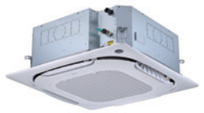
48/56/60kBtu/h

1 to 9 Indoor Units Connection

A single outdoor unit supports 1 to 9 indoor units, freeing up considerable space outside. Use your backyard more wisely with much more space available created by less number of outdoor units

Wide Range of Indoor Units

V8 Atom indoor units including Four-way cassette, Compact Four-way cassette, Wall mounted and Duct. The capacity is from 5kBtu/h to 48kBtu/h. Multiple types of indoor units to meet varied indoor requirements.



Four-way cassette

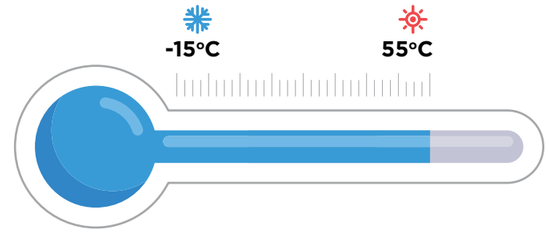
Compact Four-way cassette

Duct

Wall mounted

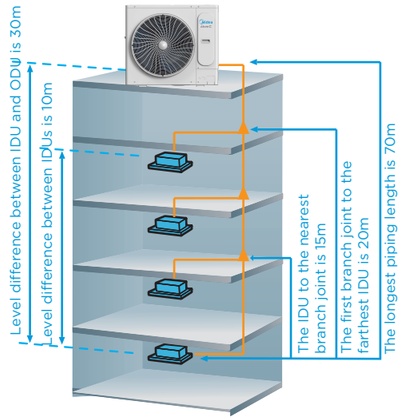
Wide Operation Range

The VRF system operates stably under extreme conditions, ranging from minus -15°C to 55°C.



Long Piping Length

The AtomC series Mini VRF provides a total piping length possibility of 130m, a maximum height difference between outdoor and indoor units of 30m. The height difference between indoor units can be up to 10m. These generous allowances facilitate an extensive array of system designs.

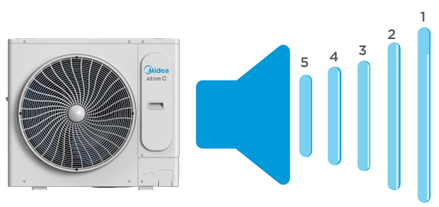


	Permitted value(m)		28/36kBtu/h	42kBtu/h	48/56/60kBtu/h
Pipe Length	Total Pipe Length(Actual)		70	90	130
	Longest Piping	Actual Length	35	45	60
		Equivalent Length	40	50	70
	Pipe Length (furthest IDU to the first branch)		20	20	20
	Pipe Length (IDU to the nearest branch)		15	15	15
Level Difference	Level difference between IDU~ODU	Outdoor Unit Up	10	20	30
		Outdoor Unit Down	10	20	20
	Level difference between IDU~IDU		10	10	10

ENHANCED COMFORT

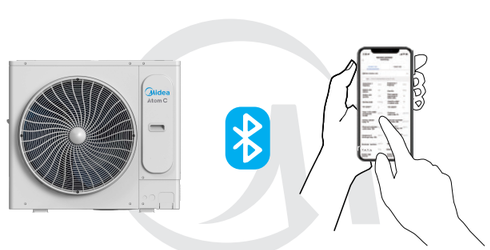
Advanced Silent Technology

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



Smart Commissioning/Maintenance Tool

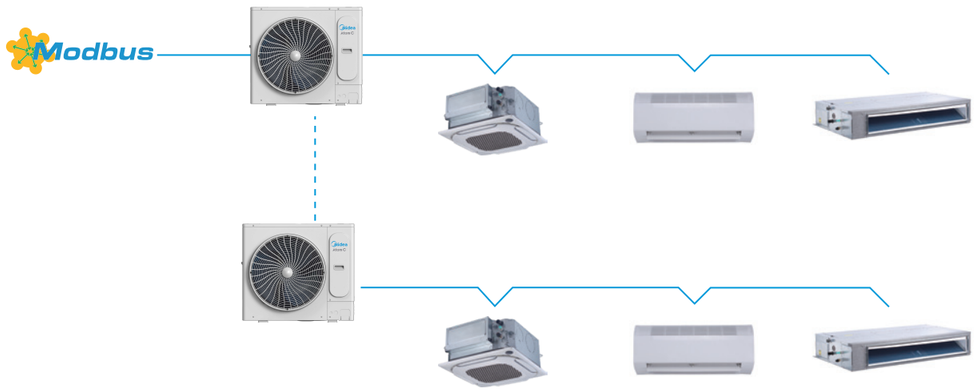
With the newly developed smart Bluetooth after-sales kit, system settings, operating parameter queries, trial runs and programme upgrades are all possible without opening the cabinet.



Note: This function is being upgraded.

Modbus Function

The AtomC can be directly connected to the third-party control system via Modbus port to realize the functions of obtaining the operation status of the IDU (on/off, with or without fault, online or offline), the operation status of the ODU(on/off, with or without fault), and the setting of the IDU (on/off, mode, air flow, and temperature), and so on.



AtomC Series – Cooling Only

Sale Model			MDVC-V28WDHN1(AtC)	MDVC-V36WDHN1(AtC)	MDVC-V42WDHN1(AtC)
Power supply			220-240V~ 50/60Hz		
Connected indoor unit	Capacity	kW	8	10	12
		kBtu/h	27	34	41
	Input	kW	2.00	2.55	3.10
	EER		4.00	3.92	3.87
Connected indoor unit	Total capacity		50%-130% of ODU capacity		
	Maximum quantity		4	6	7
Compressor	Type		DC inverter		
	Quantity		1		
Fan	Type		DC		
	Quantity		1		
Refrigerant	Type		R410A		
	Factory charge	kg	1.33	1.56	1.85
Pipe connections[3]	Gas pipe	mm	15.9	15.9	15.9
	Liquid pipe	mm	9.53	9.53	9.53
Sound pressure level		dB(A)	51	52	54
Outdoor Unit	Dimension(W x H x D)	mm	910 x 712 x 345	910 x 712 x 345	910 x 712 x 345
	Packing (W x H x D)	mm	1045 x 800 x 485	1045 x 800 x 485	1045 x 800 x 485
	Net/Gross weight	kg	45.5/51.5	48.5/52.5	51.0/55.0
Ambient temp. operation range	Cooling (DB)	°C	-15-55		

Sale Model			MDVC-V48WDHN1(AtC)	MDVC-V56WDHN1(AtC)	MDVC-V42WDHN1(AtC)
Power supply			220-240V~ 50/60Hz		
Connected indoor unit	Capacity	kW	14	16	17.5
		kBtu/h	47	54	59
	Input	kW	3.88	4.80	5.20
	EER		3.61	3.33	3.37
Connected indoor unit	Total capacity		50%-130% of ODU capacity		
	Maximum quantity		8	9	9
Compressor	Type		DC inverter		
	Quantity		1		
Fan	Type		DC		
	Quantity		1		
Refrigerant	Type		R410A		
	Factory charge	kg	2.35	2.45	2.85
Pipe connections[3]	Gas pipe	mm	15.9	15.9	15.9
	Liquid pipe	mm	9.53	9.53	9.53
Sound pressure level		dB(A)	56	56	57
Outdoor Unit	Dimension(W x H x D)	mm	950 x 840 x 360	950 x 840 x 360	950 x 840 x 360
	Packing (W x H x D)	mm	1025 x 860 x 510	1025 x 860 x 510	1025 x 860 x 510
	Net/Gross weight	kg	63.0/74.5	69.0/80.5	70.0/81.5
Ambient temp. operation range	Cooling (DB)	°C	-15-55		

V8 Atom
INDOOR UNITS

Four-way Cassette

Compact Four-way Cassette

Duct

Wall-mounted

Indoor Unit Lineup

kW	Btu/h	Four-way cassette	Compact Four-way cassette	Duct	Wall-mounted
Power supply		220-240V1Ph50(60)Hz			
Image					
1.5	5K		●	●	●
1.8	6K			●	
2.2	7K		●	●	●
2.8	9K	●	●	●	●
3.6	12K	●	●	●	●
4.5	15K	●	●	●	●
5.6	18K	●	●	●	●
6.3	21K		●		
7.1	24K	●		●	●
8	28K	●		●	●
9	32K	●		●	
10	34K	●			
11.2	40K	●		●	
12.5	43K			●	
14	48K	●		●	
16	56K	●		●	
18	60K	●			

Indoor Unit Functions

Functions		●: equipped as standard; ○: customization option; ×: without this function		Compact Four-WayCassette	Four-Way Cassette	Duct	Wall-mounted
COMFORT & HEALTH	Quiet operation	All indoor units are quiet operation		●	●	●	●
	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		●	●	●	●
	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		●	●	●	●
	Sleep mode	The smart sleep mode can realize sleep is not easy to catch a cold and wake up refreshing		●	●	●	●
	Fresh air intake	A reserved outside air intake port allows outdoor air to be introduced directly into the unit		●	●	●	×
AIR FLOW	Vertical swing	Possibility to select automatic vertical moving of the air discharge louvre, f or uniform air flow and temperature distribution		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
	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		×	×	●	×
ENERGY SAVING	ECO mode	The set temperature will automatically increase by 1°C per hour (in cooling mode) or decrease by 1°C per hour (in heating mode), with a maximum change of 2°C.		●	●	●	●
	Full DC electronic components	The fan motor and water pump are DC power supply		●	●	●	●
	Human Detect Sensor	Using millimeter-wave radar sensor controller automatically turns indoor units on or off upon detecting that the room is occupied or unoccupied, ensuringclimate control whilst minimizing energy consumption.		○	○	(1) ○	○
EASY Installation & Service	Long distance air delivery	Provides adequate airflow and capacity under high ceiling conditions		● 3.5m	● 3m	×	×
	High-lift drain pump	Facilitates condensation draining from the indoor unit		●	●	●	○
	Air baffle fittings for irregular rooms	Some air discharge ports can be blocked with air baffle to optimize air distribution in irregular shaped rooms		●	●	×	×
	3 digit 7-segment display	3 digit 7-segment display can display more parameters and error information		●	●	●	●
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		●	●	●	●
	Auto-restart	The unit restarts automatically at the original settings after power failure		●	●	●	●
	°C/°F setting	Temperature unit °C or °F 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		●	●	●	●

Note:
(1). Use the display box which is equipped with a human detect sensor.

360° airflow

Individual louver control

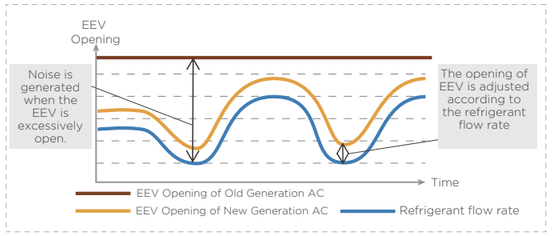
Healthy air supply

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.

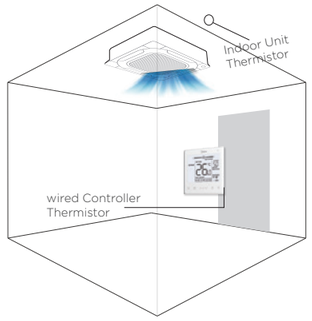
The indoor unit automatically runs when detecting human body

The indoor unit automatically stops when detecting absence

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

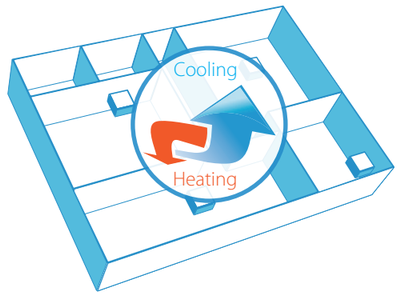
Two thermistors control

The indoor temperature can be checked using the thermistor in the wired 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.

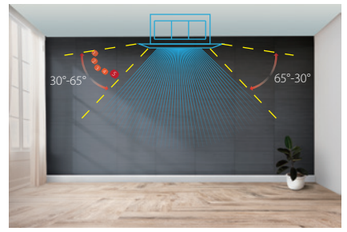
The continuous air supply port air supply area increases by 20%

7 Fan Speeds

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

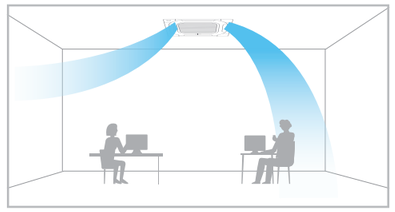
Multiple Steps Vertical Swing

The Four-way Cassette unit has a wide range of airflow angles from 30° to 65° and is equipped with a 5-step louver control and auto swing mode to better meet the needs of different customers



Individual Louver Control

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



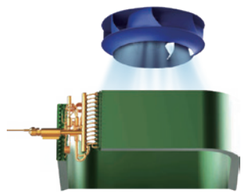
Soft Wind Mode

Supplies air against the ceiling to create windless environment.
Slow-released nano-silver ions can keep the drain pan free of mold for a long time.

HEALTH

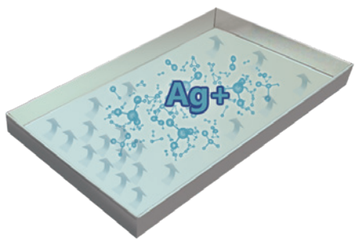
Mildew proof of heat exchanger

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)

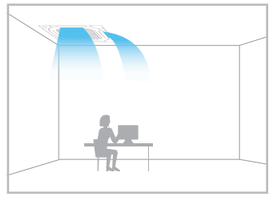
Slow-released nano-silver ions can keep the drain pan free of mold for a long time.



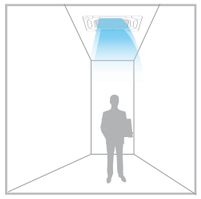
EASY INSTALLATION

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.



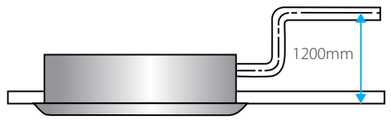
At the corner



In the narrow room

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.

SPECIFICATIONS

Four-way Cassette

Model			MI2-09Q4DHN18(At)	MI2-12Q4DHN18(At)
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
Sound power level		dB(A)	44/43/42/42/41/40/39	
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	18/20.8	18/20.8
Panel	Net dimensions[6] (W×H×D)	mm	950×53×950	950×53×950
	Packed dimensions (W×H×D)	mm	1030×95×1030	1030×95×1030
	Net/Gross weight	kg	5.6/8.0	5.6/8.0
Refrigerant type			R410A/R32	
Pipe connections	Liquid/Gas pipe	mm	Ø6.35/Ø12.7	Ø6.35/Ø12.7
	Drain pipe	mm	OD Ø25	

Model			MI2-15Q4DHN18(At)	MI2-18Q4DHN18(At)	MI2-24Q4DHN18(At)
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
Sound power level		dB(A)	52/51/49/47/45/43/40	49/48/47/47/46/45/44	52/51/50/48/47/45/44
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	18/20.8	19.5/22.4	19.5/22.4
Panel	Net dimensions[6] (W×H×D)	mm	950×53×950	950×53×950	950×53×950
	Packed dimensions (W×H×D)	mm	1030×95×1030	1030×95×1030	1030×95×1030
	Net/Gross weight	kg	5.6/8.0	5.6/8.0	5.6/8.0
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			MI2-28Q4DHN18(At)	MI2-32Q4DHN18(At)	MI2-36Q4DHN18(At)
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
Sound power level		dB(A)	57/55/53/51/49/47/45	55/54/52/51/50/48/47	58/57/55/53/51/49/47
Main body	Net dimensions[5] (W×H×D)	mm	840×204×840	840×246×840	840×246×840
	Packed dimensions (W×H×D)	mm	940×250×940	940×295×940	940×295×940
	Net/Gross weight	kg	19.5/22.4	21.5/25.4	21.5/25.4
Panel	Net dimensions[6] (W×H×D)	mm	950×53×950	950×53×950	950×53×950
	Packed dimensions (W×H×D)	mm	1030×95×1030	1030×95×1030	1030×95×1030
	Net/Gross weight	kg	5.6/8.0	5.6/8.0	5.6/8.0
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			MI2-40Q4DHN18(At)	MI2-48Q4DHN18(At)	MI2-56Q4DHN18(At)	MI2-60Q4DHN18(At)
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
Sound power level		dB(A)	57/56/55/54/53/52/51	64/63/61/60/58/56/54	57/56/54/52/50/47/46	60/58/56/54/52/49/46
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	24/27.7	24/27.7	32.6/37.2	32.7/37.3
Panel	Net dimensions[6] (W×H×D)	mm	950×53×950	950×53×950	1050×55×1050	1050×55×1050
	Packed dimensions (W×H×D)	mm	1030×95×1030	1030×95×1030	1115×100×1115	1115×100×1115
	Net/Gross weight	kg	5.6/8.0	5.6/8.0	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			

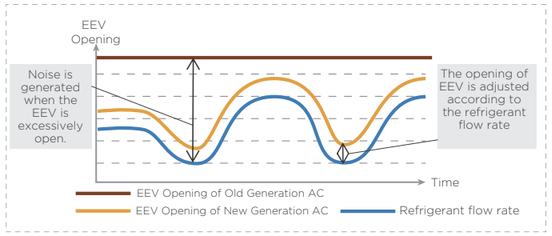
Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Air flow rate are 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.

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.

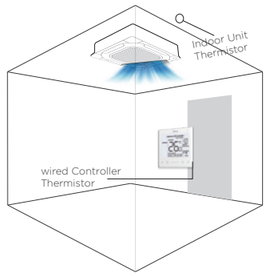
The indoor unit automatically runs when detecting human body

The indoor unit automatically stops when detecting absence

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

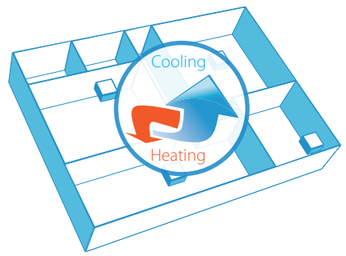
Two thermistors control

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



Auto Cooling-heating Changeover

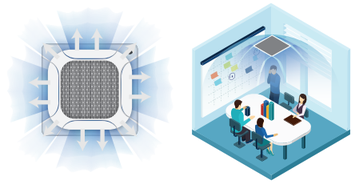
Automatically selects cooling or heating mode to achieve the set temperature.



AIR FLOW

360° Airflow

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



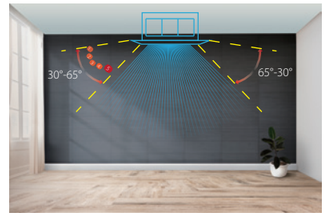
The continuous air supply port air supply area increases by 20%

7 Fan Speeds

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

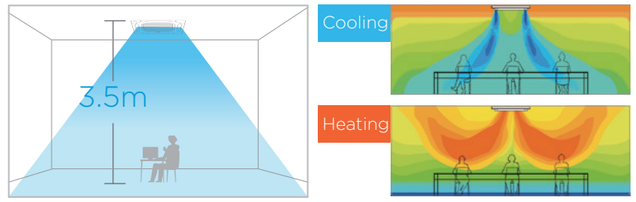
Multiple Steps Vertical Swing

The Four-way Cassette unit has a wide range of airflow angles from 30° to 65° and is equipped with a 5-step louver control and auto swing mode to better meet the needs of different customers.



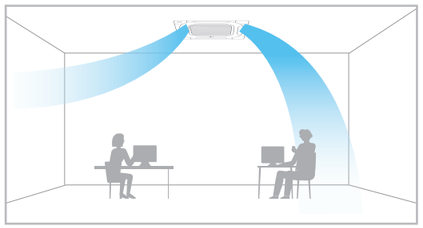
Long Distance Air Delivery

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.



Individual Louver Control

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



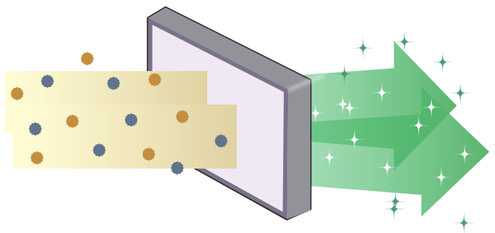
Soft Wind Mode

Supplies air against the ceiling to create windless environment.
Slow-released nano-silver ions can keep the drain pan free of mold for a long time.

HEALTH

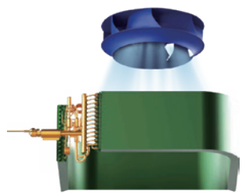
Optional F6-class Air Filter

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 > 1Qm), creating a cleaner living environment.



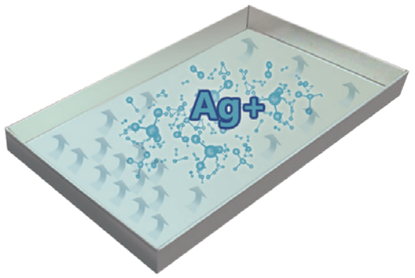
Mildew proof of heat exchanger

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.

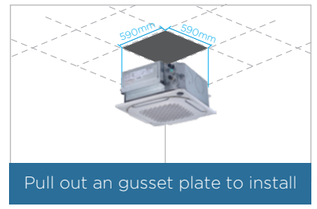


EASY INSTALLATION

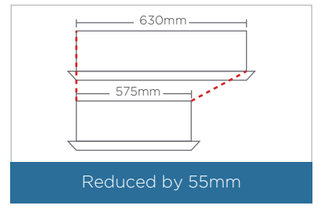
Compact and stylish design

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

Cut ceiling tile to install



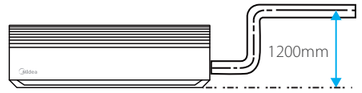
Pull out an gusset plate to install



Reduced by 55mm

High-lift drain pump*

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



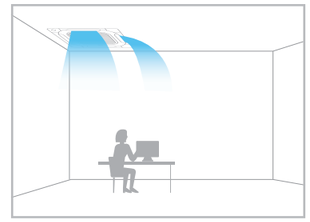
*The drain pump is available as a customization option

Water level switch

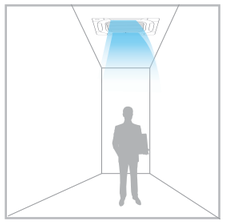
When the drain pipe is blocked or the drain pipe is poor, the water level switch is turned off, and there is no need to worry about overflowing the ceiling.

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

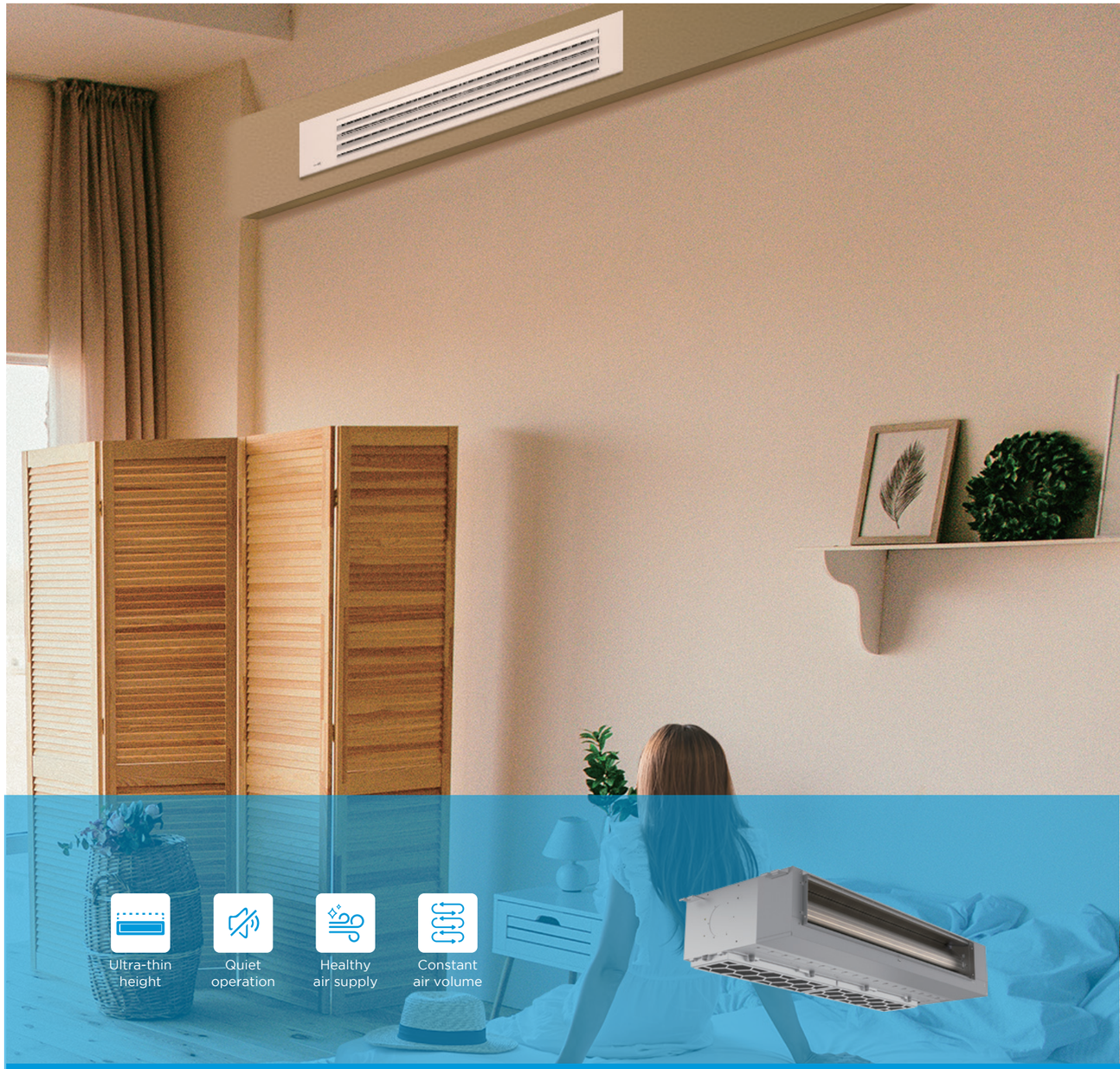
SPECIFICATIONS

Compact Four-way Cassette

Model			MI2-05Q4CDHN18(At)	MI2-07Q4CDHN18(At)	MI2-09Q4CDHN18(At)	MI2-12Q4CDHN18(At)
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]		m^3/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	13.0/15.5			14.0/16.5
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			
	Drain pipe	mm	OD Ø25			

Model			MI2-15Q4CDHN18(At)	MI2-18Q4CDHN18(At)	MI2-21Q4CDHN18(At)
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]		m^3/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	14.0/16.5	15.0/17.5	
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.

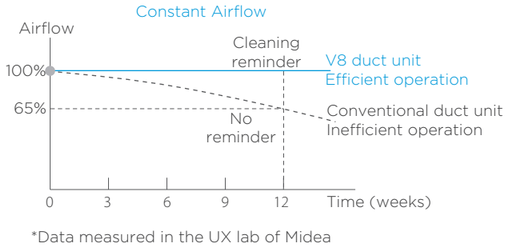


Duct

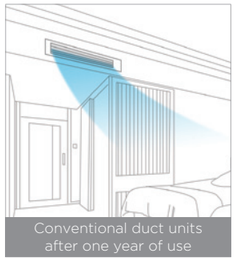
AIR FLOW

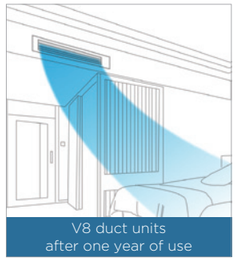
Constant Airflow

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

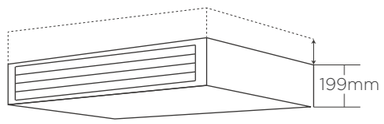




EASY INSTALLATION

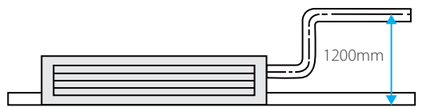
Ultra-thin Body

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



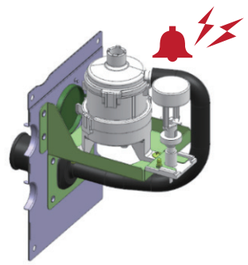
High-lift drain pump

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.



SPECIFICATIONS

Duct

Model			MI2-05T3DHN18(At)	MI2-06T3DHN18(At)	MI2-07T3DHN18(At)	MI2-09T3DHN18(At)
Power supply			1-phase, 220-240V, 50/60Hz			
Cooling[1]	Capacity	kW	5	6	7	9
		kBtu/h	1.5	1.8	2.2	2.8
	Power input	W	21	21	22	28
Heating[2]	Capacity	kW	6	7	8	10
		kBtu/h	1.8	2.2	2.5	3.2
	Power input	W	21	21	22	28
Air flow rate[4]		m^3/h	340/335/329/320/307/298/290	340/335/329/320/307/298/290	370/347/339/322/314/306/295	460/431/413/380/351/323/300
External static pressure[5]		dB(A)	10 (10-50)			
Sound pressure level[6]		dB(A)	27.0/26.5/25.5/24.5/24.0/23.0/22.0	27.0/26.5/25.5/24.5/24.0/23.0/22.0	28.0/27.0/26.0/25.0/24.0/23.0/22.0	30.0/29.0/27.5/26.0/25.0/23.5/22.0
Sound pressure level[6]		dB(A)	43.5/43.0/42.5/42.0/41.5/41.0/40.0	43.5/43.0/42.5/42.0/41.5/41.0/40.0	46.0/45.0/44.0/43.0/42.0/41.0/40.0	50.5/49.0/47.0/45.5/43.5/42.0/40.0
Unit	Net dimensions[5] (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	Φ6.35/Φ12.7			
	Drain pipe	mm	OD Φ25			

Model			MI2-12T3DHN18(At)	MI2-15T3DHN18(At)	MI2-18T3DHN18(At)
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	12	15	18
		kBtu/h	3.6	4.5	5.6
	Power input	W	31	43	58
Heating[2]	Capacity	kW	13	17	21
		kBtu/h	4	5	6.3
	Power input	W	31	43	58
Air flow rate[4]		m^3/h	605/557/508/453/414/365/320	800/770/701/629/557/506/435	900/800/761/682/603/549/470
External static pressure[5]		dB(A)	10 (10-50)		
Sound pressure level[6]		dB(A)	30.0/29.5/28.5/27.5/27.0/26.0/25.0	33.0/32.0/31.0/29.5/28.5/27.5/26.0	36.0/34.5/33.0/31.5/30.0/28.5/27.0
Sound pressure level[6]		dB(A)	50.5/49.5/48.0/47.0/45.5/44.5/43.0	52.0/50.5/49.0/47.5/46.0/44.5/43.0	56.0/54.0/52.0/50.0/48.0/46.0/44.0
Unit	Net dimensions[5] (W×H×D)	mm	700×199×450	900×199×450	
	Packed dimensions (W×H×D)	mm	865×255×525	1065×255×525	
	Net/Gross weight	kg	13.0/15.5	16.5/19.5	
Refrigerant type			R410A/R32		
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7		
	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. 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

Duct

Model			MI2-24T3DHN18(At)	MI2-28T2DHN18(At)	MI2-32T2DHN18(At)
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	24	28	32
		kBtu/h	7.1	8	9
	Power input	W	65	102	110
Heating[2]	Capacity	kW	28	32	34
		kBtu/h	8	9	10
	Power input	W	65	102	110
Air flow rate[4]		m^3/h	1145/1033/957/860/763/671/580	1355/1263/1172/1080/988/897/805	1420/1323/1225/1128/1030/933/835
External static pressure[5]		dB(A)	10 (10-50)	40 (10-160)	
Sound pressure level[6]		dB(A)	37.0/36.0/34.5/33.0/32.0/30.5/29.0	38.0/36.5/35.0/33.0/31.5/30.0/28.0	40.0/38.0/36.0/34.0/32.0/30.0/28.0
Sound pressure level[6]		dB(A)	57.0/55.5/54.0/52.0/50.5/49.0/47.0	59.5/57.5/55.5/53.5/51.5/49.5/47.0	61.5/59.0/56.5/54.0/51.5/49.0/46.0
Unit	Net dimensions[5] (W×H×D)	mm	1100×199×450	1050×245×750	
	Packed dimensions (W×H×D)	mm	1300×255×525	1215×305×885	
	Net/Gross weight	kg	20/23.5	30/34.0	31/35.0
Refrigerant type			R410A/R32		
Pipe connections	Liquid/Gas pipe	mm	Φ9.52/Φ15.9		
	Drain pipe	mm	OD Φ25		

Model			MI2-40T2DHN18(At)	MI2-43T2DHN18(At)	MI2-48T2DHN18(At)
Power supply			1-phase, 220-240V, 50/60Hz		
Cooling[1]	Capacity	kW	40	43	48
		kBtu/h	11.2	12.5	14
	Power input	W	138	172	172
Heating[2]	Capacity	kW	43	48	54
		kBtu/h	12.5	14	16
	Power input	W	138	172	172
Air flow rate[4]		m^3/h	1950/1817/1683/1550/1417/1283/1150	2105/1971/1837/1703/1568/1434/1300	2105/1971/1837/1703/1568/1434/1300
External static pressure[5]		dB(A)	50 (10-160)		
Sound pressure level[6]		dB(A)	41.0/39.0/37.0/35.0/33.0/31.0/29.0	42.0/40.5/38.5/36.5/35.0/33.0/31.0	42.0/40.5/38.5/36.5/35.0/33.0/31.0
Sound pressure level[6]		dB(A)	61.5/60.0/58.0/56.5/54.5/53.0/51.0	66.0/64.5/62.5/60.5/59.0/57.0/55.0	66.0/64.5/62.5/60.5/59.0/57.0/55.0
Unit	Net dimensions[5] (W×H×D)	mm	1400×245×750		
	Packed dimensions (W×H×D)	mm	1565×305×885		
	Net/Gross weight	kg	37/42.0	39/44.0	39/44.0
Refrigerant type			R410A/R32		
Pipe connections	Liquid/Gas pipe	mm	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. 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.

Wall Mounted

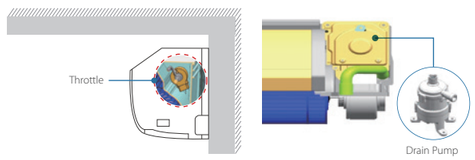
COMFORT

Quiet Operation

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

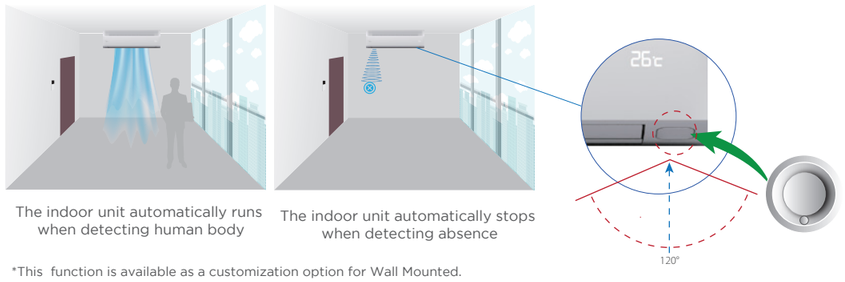
Enclosed design

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.



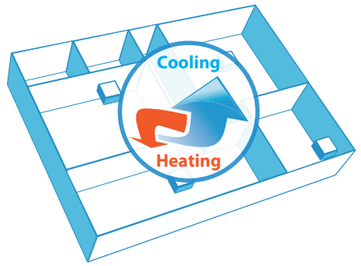
The indoor unit automatically runs when detecting human body

The indoor unit automatically stops when detecting absence

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

Auto Cooling-heating Changeover

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



Sleep Mode

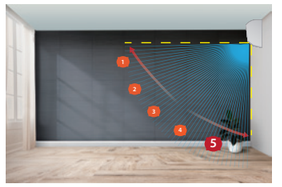
The smart sleep mode provides a comfortable sleep period and a refreshing wake up time.

*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.



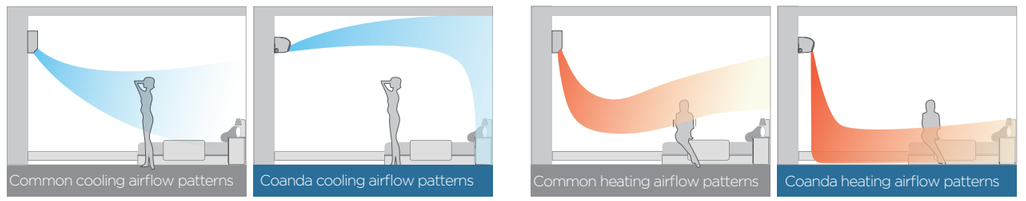
Up & Down

Right & Left

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

Bi-directional Coanda Airflow

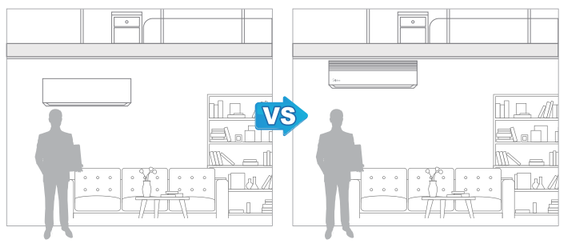
With bi-directional Coanda airflow delivery technology, the cold air does not blow directly on people and the hot air warms up evenly from the feet for better comfort.



EASY INSTALLATION

Ceiling Mounting

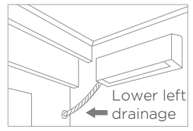
The Wall Mounted new heat exchanger is designed to meet the installation requirements close to the ceiling, and the minimum distance from the ceiling is 3cm.

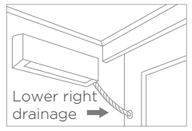


There is some distance from ceiling The distance from the ceiling is 3cm

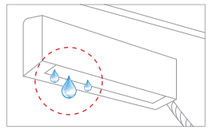
Free Drainage without Space Restrictions

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





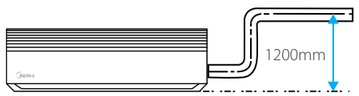
Most conventional Wall Mounted unit does not have a drain pump and the condensate pipe can only be installed underneath the unit, relying on gravity to drain the condensate to the nearest window.



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 a customization option, simplifying installation of the drain piping.



*The drain pump is available as a customization option

SPECIFICATIONS

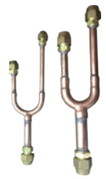
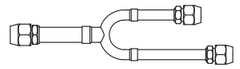
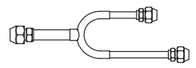
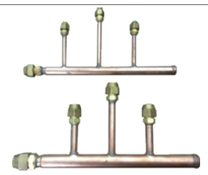
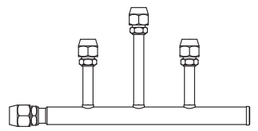
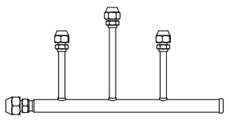
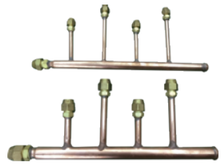
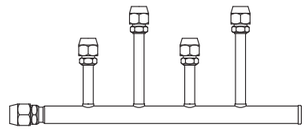
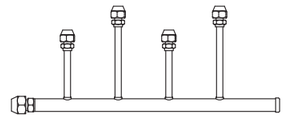
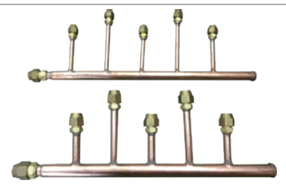
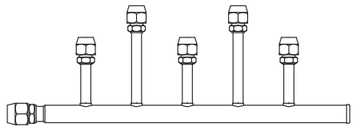
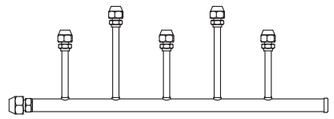
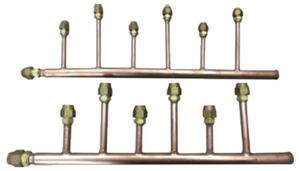
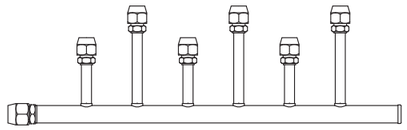
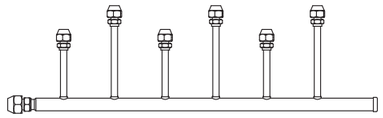
Wall Mounted

Model			MI2-05GDHN18(At)	MI2-07GDHN18(At)	MI2-09GDHN18(At)	MI2-12GDHN18(At)
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[5] (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			MI2-15GDHN18(At)	MI2-18GDHN18(At)	MI2-24GDHN18(At)	MI2-28GDHN18(At)
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[5] (W×H×D)	mm	950×295×265	950×295×265	1200×295×265	1200×295×265
	Packed dimensions (W×H×D)	mm	1075×385×360	1075×385×360	1315×385×360	1315×385×360
	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

BRANCH HEADER

	Appearance	Gas side joints (Φ15.9→Φ12.7)	Liquid side joints (Φ9.52→Φ6.35)
1 to 2 branch header			
1 to 3 branch header			
1 to 4 branch header			
1 to 5 branch header			
1 to 6 branch header **Model DXFQT6-02**			

CONTROL SOLUTIONS

Remote Controllers

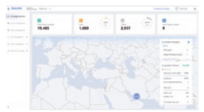
Wired Controllers

Central Controllers

Data Converter

Network Control System

CONTROLLER LINEUP

Wireless Remote Controllers	Wired Remote Controllers	Central Controllers Data converter	Network Cloud System
 RM23A	 WDC3-86S	 CCM-180A/BWS(A)	 GW3-CLOUD + 
 RM12F1	 WDC3-86T	 CCM-270B/WS(B)	 GW3-CLOUD +  Cloud Control/ APP
 RM12F	 WDC3-120T	 CCM30/BKE-B(A)	
		 CCM15(A)	

Remote Controllers

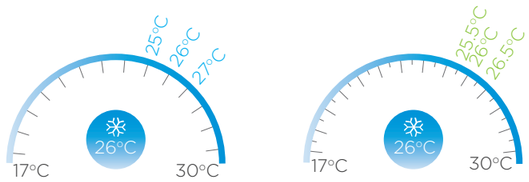
Features

Model	RM23A	RM05B(A)	RM12F
On / Off	●	●	●
Mode selection	●	●	●
Temperature setting	● (0.5°C or 1°C steps)	● (0.5°C or 1°C steps)	● (0.5°C or 1°C steps)
7-speed fan control	●	●	●
Auto swing	●	●	●
5-step swing louver	●	●	●
Address setting	●	●	●
Follow me	●	×	●
Eco mode	●	●	●
Silent mode	●	●	●
Display shut-off	●	●	●
Daily timer	●	●	●
Keyboard lock	●	●	●
Background light	●	●	●
Indoor Unit parameter setting	●	●	●
Dimensions (H×W×D) (mm)	185×47×21	150×65×20	170×48×20
Batteries	1.5V (LR03/AAA) × 2		
Indoor unit series	Atom Series IDU		

Note:
●: equipped as standard; ×: without this function

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.

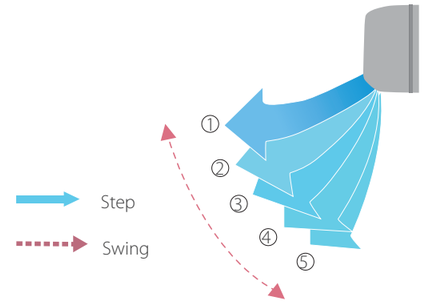


Digital Display On/Off

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

5 Swing Angles for Louver

Thanks to the 5 swing angles for indoor unit louver, the air flow direction can be controlled more precisely.

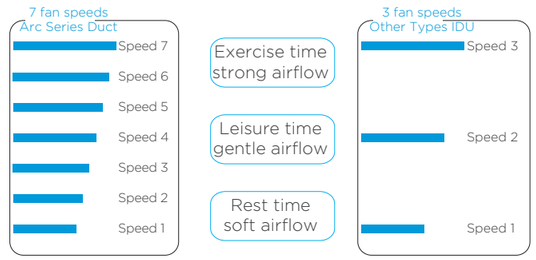


Follow Me

With the follow me function, the indoor unit responds to the temperature measured by the temperature sensor built-in to the wireless remote controller, rather than the temperature sensor in the indoor unit itself, enabling more precise control of the temperature in the user's immediate environment.

Multiple Fan Speed Control

The Arc Series Duct comes with 7 indoor fan speed options and other types indoor units with 3 indoor fan speed options to meet the needs of different indoor conditions.



Wired Controllers

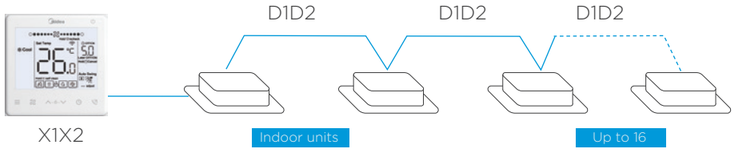
Features

Model	 WDC3-86S	 WDC3-86T	 WDC3-120T
On / Off	●	●	●
Mode selection	●	●	●
Temperature setting	● (0.5°C or 1°C steps)	● (0.5°C or 1°C steps)	● (0.5°C or 1°C steps)
Dual temperature set points	×	●	●
App control	×	●	●
7-speed fan control	●	●	●
Auto swing	●	●	●
5-step swing louver	●	●	●
Address setting	●	●	●
Follow me	●	●	●
Meta mode	●	●	●
Room temperature display	●	●	●
°F/°C display	●	●	●
Keyboard lock	×	●	●
Background light	●	●	●
Daily timer	●	●	●
Weekly schedule timer	×	●	●
Auto restart	●	●	●
2 permission levels	●	●	●
Bi-directional communication	●	●	●
Group control	●	●	●
Main or secondary controller setting	●	●	●
Display shut-off	●	●	●
Silent mode	●	●	●
Remote signal receiver	●	●	●
Clean filter reminder	●	●	●
Extension function	×	●	●
Daylight saving time	×	●	●
Clock display	×	●	●
Error check function	●	●	●
System parameter querying	●	●	●
After Hours/Off Timer function	×	●	●
Language	English	14 Languages	14 Languages
One to more control	×	●	●
Dimensions (WxHxD) (mm)	86x86x18	86x86x18	120x120x20
Power supply	18V DC	18V DC	18V DC
Indoor unit series	Atom Series IDU		

Note:
●: equipped as standard; ×: without this function

Group Control

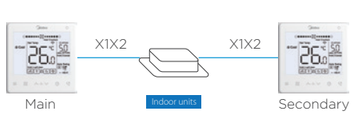
One controller can be used to unify the settings across up to 16 indoor units.



Note: when the 2nd generation AC indoor units connect to group controller WDC-120G/WK, the indoor units need to customize D1 D2 terminals.
Group control is not available for 2nd generation AC Wall Mounted Series.

Main or Secondary Controller Setting

Two controllers can be used together with single indoor unit. Operating mode and settings would be set according to the most recent instruction received. The controller display screens are synchronized so that both displays update when a setting is adjusted.



One indoor unit

Two or more indoor units

2 Permission Levels

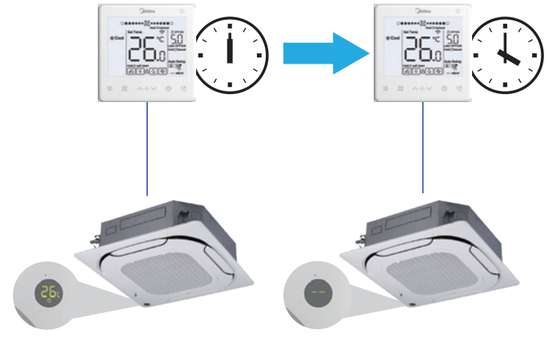
2 permission levels ensure users can easily access control functions and allow administrators convenient access to operating parameters.

Buzzer Sound On/Off

The buzzer sound of the indoor unit can be turned off to create a quieter environment

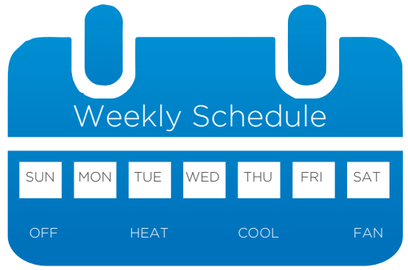
Off Timer Function

We can use the wired controller to set an automatic off timer or after hours function for the indoor unit.



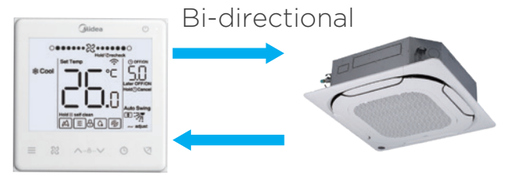
Weekly Schedule Timer

The weekly schedule timer allows users to set multiple schedules each with its own operating mode, temperature settings and fan speeds.



Bi-directional Communication

The wired controller can query the system operating parameters thanks to the new bi-directional communication functionality. In addition, settings including static pressure, cold draft prevention and temperature compensation can be configured on the wired controller.



Central Controllers

Features

Function	 CCM-180A/BWS(A)	 CCM-210G/BWS
Max. number of indoor units	64	64
Max. number of refrigerant systems	8	8
Touch screen	● (6.2-inch)	● (7-inch)
On/Off	●	●
Mode selection	●	●
Temperature setting	(0.5°C steps)	
7-speed fan control	●	
Auto swing	●	●
5-step swing louver	●	●
Room temperature display	●	●
Holiday setting	●	●
°C/°F display	●	●
Schedule management	●	●
Clock display	●	●
2 permission levels	●	●
Extension function	●	×
Indoor unit type/model recognition	●	
Indoor unit with capacity larger than 16kW recognition	●	
HRV Control	●	●
Visual schematic	×	×
Energy management	●	●
Group management	●	●
Error check function	●	●
System parameter querying	●	●
USB output	●	●
Report display	Error report	operation record
Operation log	×	×
LAN access	×	×
Language supported	English, Chinese, French, Spanish, Portuguese, Italian, German, Polish, Turkish, Russian, Korean	English, Chinese
Dimensions (W×H×D)(mm)	182×123×34	174×111×26
Power supply	12V DC	12V DC
Outdoor unit series or indoor unit series	All series	

Note:
●: equipped as standard; ×: without this function

Features

Function	 CCM-270B/WS(B)	 CCM30/BKE-B(A)
Max. number of indoor units	384	64
Max. number of refrigerant systems	48	8
Touch screen	● (10.1-inch)	×
On/Off	●	●
Mode selection	●	●
Temperature setting	(0.5°C steps)	● (1°C steps)
7-speed fan control	●	3-speed fan control
Auto swing	●	●
5-step swing louver	●	×
Room temperature display	●	●
Holiday setting	●	×
°C/°F display	●	●
Schedule management	●	●
Clock display	●	×
2 permission levels	●	×
Extension function	×	×
Indoor unit type/model recognition	●	×
Indoor unit with capacity larger than 16kW recognition	●	Identify as two or four units (depend on units model)
HRV Control	●	●
Visual schematic	●	×
Energy management	●	Mode/Remote controller limit
Group management	●	×
Error check function	●	●
System parameter querying	●	●
USB output	●	×
Report display	Error report and operation record	×
Operation log	●	×
LAN access	●	×
Language supported	English, Chinese, French, Spanish, Portuguese, Italian, German, Polish, Turkish, Russian, Korean	English
Dimensions (WxHxD)(mm)	270×183×27	179×119×74
Power supply	24V AC	198-242V AC (50/60Hz)
Outdoor unit series or indoor unit series	All series	

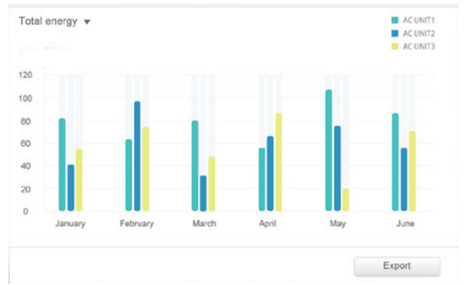
Note:
●: equipped as standard; ×: without this function

Touch Screen

Colorful touch screen and vivid display make operation more convenient and simple.

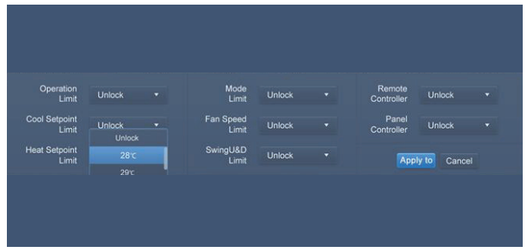
Electricity Charge Distribution

The controllers use the patented Midea Calculation Method to estimate the electricity consumption of the outdoor units and then divide it among the indoor units so that the electricity charges can be equitably divided among building occupants.



Energy Management

User can set limits or locks on an indoor unit, such as minimum cooling temperature, maximum heating temperature, fan speed, operation mode, swing lock, remote controller lock and wired controller lock.



Unit Model Recognition

The controller recognizes the model of indoor and outdoor units and different models are represented by different icons.

Icon	Model	Icon	Model
	Low static pressure and middle static pressure (L-DUCT/M-DUCT)		Vertical concealed installation/vertical surface mounting (FS)
	High static pressure (H-DUCT)		Four-way Cassette
	Purifier (FAPU)		Compact Four-way Cassette (COMPACT)
	Wall mounting (WALL)		Ceiling-floor type (C&F)
	Old IDU (1st Gen. IDU)		Two-way Cassette
	One-way Cassette		CONSOLE
	Group control device icon		New ODU (New generation ODU)

Visual Schematic

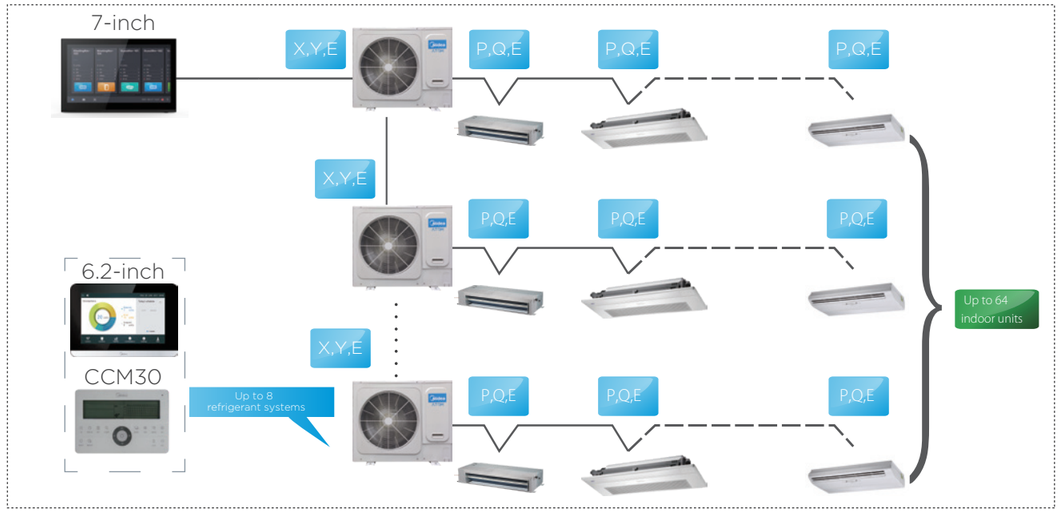
By importing floor plans and then dragging and dropping the indoor units to their actual positions on the floor plan, users can create a tailored system schematic which enables monitoring and control of the indoor units through a clear visual representation of the system layout.

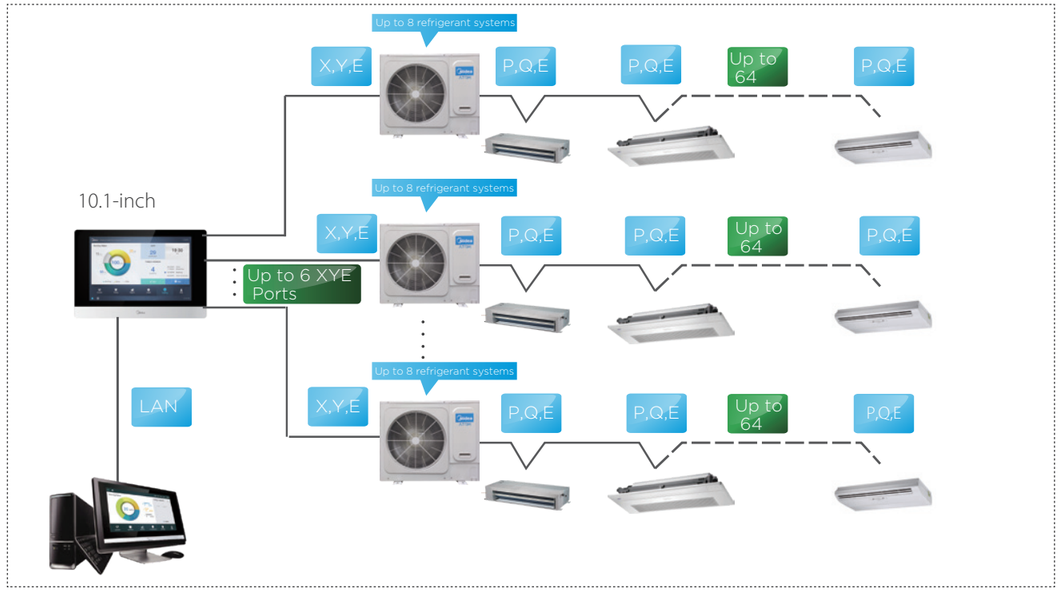
Group Management

Units can be viewed according to group, system or location, making unit management clearer and more convenient.

Wiring Flexibility

The controllers can be connected to the master outdoor unit directly.





Data Converter

Features

Hardware model	 CCM15(A)	
Application scenarios	 Mobile Phone Application	 Cloud Server Website
Max. number of CCM-15 for one mobile APP	10	10
Max. number of indoor units	640	640
Max. number of refrigerant systems	80	80
On/Off	●	●
Mode selection	●	●
Temperature setting	● (1°C steps)	● (1°C steps)
7-speed fan control	×	×
Auto swing	●	●
5-step swing louver	×	×
Room temperature display	●	●
°C/°F display	●	●
Weekly timer	●	●
Indoor unit type recognition	×	×
Energy management	●	●
Group management	●	●
User group management	●	●
Operation log	●	●
Device log	●	●
Login record	●	●
Error log	×	●
Configuration	●	×
Account registration	●	×
Virtual	●	×
Mode display	●	●
Languages supported	English, French, Spanish	English, French, Spanish
Dimensions (W×H×D) (mm)	225×128×28	
Power supply	12V DC	
Outdoor unit series	All series	

Note:
●: equipped as standard; ×: without this function

High Compatibility

Compatible with a variety of operating systems.

Easy Configuration

User groups can be joined simply by scanning a QR code.

User Friendly Interface

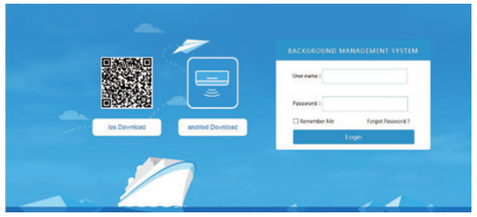
Clear, stylish interface designed by leading industrial designers.

Convenient Operation

Drag the position of the floating bubbles to change temperature and fan speed.

Cloud Server Website

In addition to "M-control", users can control air conditioners and query the status of air conditioning equipment anytime and anywhere through the cloud server website.

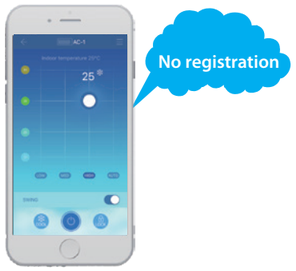


Anytime Control

Remote access to CCM-15 allows anytime, anywhere control.

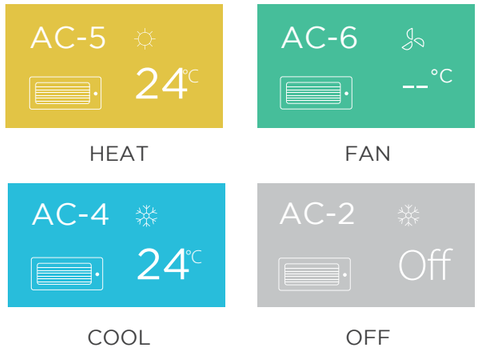
Virtual Experience

After downloading "M-control", you can experience the operation of the interface through the virtual experience function without registration.



Clear Icons

Clear, color-coded icons allow unit operating states to be viewed at a glance.

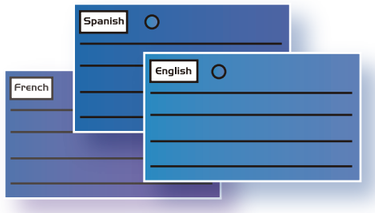


Group Management

The user can group the air conditioners equipment, and the air conditioner in the same group can be controlled together just with one tap.

Multiple Language Options

Supports multiple languages so that users of different languages can operate easily.



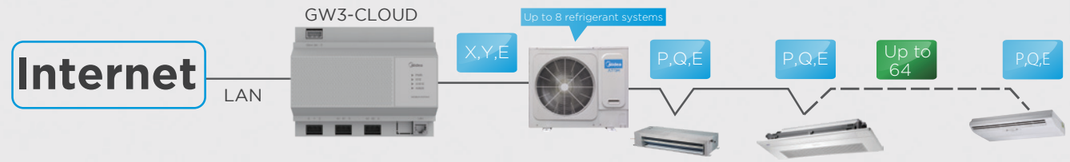
2 Permission Levels

Administrators can set different permissions for different users to facilitate better management of devices.

Flexibility

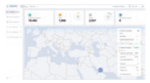
The Data Converter can be connected directly to a network of indoor/outdoor units.

Network Control System



Features

Cloud Control		
Software model	iEasyComfort	iEasyComfort App
Device control	●	●
Device monitor	●	●
Group control	●	●
Schedule management	●	●
Group management	●	●
Error check function	●	●
Operation log	●	●
Clock and Weather display	●	●
Max. number of gateways per software system	Unlimited	Unlimited
Hardware model	 GW3-CLOUD	
Dimensions (HxWxD)(mm)	154×124×51.5	
Power supply	12V DC	
Max. number of indoor units per gateway	64	
Max. number of refrigerant systems per gateway	8	
Unit Series	All series	

Cloud Service Platform	
Software model	Intelligent HVAC Management System
Project management	●
Device management	●
ODU and IDU OTA management	●
Event management	●
Permission management	●
Max. number of gateways per software system	Unlimited
Hardware model	 GW3-CLOUD
Dimensions (HxWxD)(mm)	154×124×51.5
Power supply	12V DC
Max. number of indoor units per gateway	64
Max. number of refrigerant systems per gateway	8
Unit Series	All series

Note:
●: equipped as standard; ×: without this function