

1802-21V1712



V6-i ALL DC INVERTER SERIES VRF

Commercial Air Conditioners 2018/2019



Midea CAC After-service Application

Midea CAC News Application



iOS Version

Android Version

iOS Version

Commercial Air Conditioner Division Midea Group

Add.: Midea Headquarters Building, 6 Midea Avenue, Shunde, Foshan, Guangdong, China

Postal code: 528311

Tel: +86-757-26338346 Fax: +86-757-22390205

cac.midea.com global.midea.com

Note: Product specifications change from time to time as product improvements and developments are released and may vary from those in this document.

Midea CAC

Midea CAC is a key division of the Midea Group, a leading producer of consumer appliances and provider of heating, ventilation and air conditioning solutions. Midea CAC has continued with the tradition of innovation upon which it was founded, and emerged as a global leader in the HVAC industry. A strong drive for advancement has created a groundbreaking R&D department that has placed Midea CAC at the forefront of a competitive field. Through these independent efforts and joint cooperation with other global enterprises, Midea has supplied thousands of innovative solutions to customers worldwide.

We have three production bases: Shunde, Chongqing and Hefei.

MCAC Shunde: 38 product lines focusing on VRF, Split Products, Heat Pump Water Heaters, and AHU/FCU.

MCAC Chongqing: 14 product lines focusing on Water Cooled Centrifugal/Screw/Scroll Chillers, Air Cooled Screw/Scroll Chillers, and AHU/FCU.

MCAC Hefei: 11 product lines focusing on VRF, Chillers, and Heat Pump Water Heaters.

MIDEA GROUP
FORTUNE GLOBAL
FORTUNE
500

Midea Company
Introduction



Midea CAC
Introduction



- 2017 >> Launched the All DC Inverter V6 VRF globally, leading in VRF market
- 2016 >> Acquired 80% stake in Clivet
- 2014-2015 >> Win 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
- 2014 >> Launched the All DC Inverter V5X globally, outstanding product performance helps Midea leading VRF market
- 2011-2014 >> Launched the DC Inverter V4 Plus Series successively, complete product lines help Midea successfully enter the mainstream VRF market
- 2011-2012 >> J.V. with Carrier LA and Carrier India successively
- 2009 >> Launched the DC Inverter V4 globally
- 2008 >> Developed DC inverter technology with Toshiba
- 2000-2001 >> Cooperated with Toshiba and Copeland, enter VRF field
- 1999 >> Entered the CAC field



OUTDOOR UNITS

VRF V6 Series Heat Pump	09
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INDOOR UNITS

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Two-way Cassette	28
Compact Four-way Cassette	29
Four-way Cassette	30
Medium Static Pressure Duct	31
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Fresh Air Processing Unit	33
Wall Mounted Unit	34
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HRV

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BRANCH JOINTS

Branch Joints	87
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OUTDOOR UNIT LINEUP



8 / 10 / 12HP
with single fan



14 / 16 / 18HP
with single fan



20 / 22HP
with dual fans



24 / 26 / 28 / 30 / 32HP
with dual fans



INDOOR UNIT LINEUP

kW		1.8	2.2	2.8	3.6	4.5	5.6	7.1
Btu/h		5k	7k	9k	12k	15k	19k	24k
One-way Cassette		●	●	●	●	●	●	●
Two-way Cassette			●	●	●	●	●	●
Compact Four-way Cassette			●	●	●	●		
Four-way Cassette				●	●	●	●	●
Medium Static Pressure Duct			●	●	●	●	●	●
High Static Pressure Duct								●
Fresh Air Processing Unit								
Wall Mounted Unit			●	●	●	●	●	●
Ceiling / Floor Unit					●	●	●	●
Floor Standing Unit			●	●	●	●	●	●
Console			●	●	●	●		

Note: High static pressure duct 40/45/56kW units are available at the end of June, 2018.

8.0	9.0	10.0	11.2	12.5	14.0	16.0	20.0	25.0	28.0	40.0*	45.0*	56.0*
27k	30k	34k	38k	42k	48k	55k	68k	85k	96k	136k	154k	191k
●	●	●	●		●							
●	●		●		●							
●	●		●		●	●	●	●	●	●	●	●
				●	●		●	●	●			
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Series

OUTDOOR UNITS

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Easy Installation
and Service

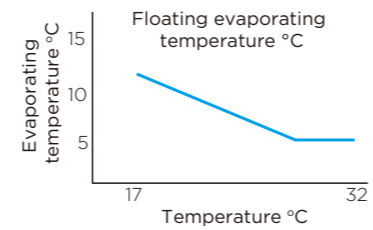


3 Unique Innovations

Energy Management System (EMS)

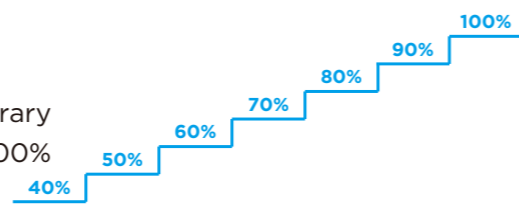
- **Floating refrigerant temperature to balance comfort and efficiency**

The evaporating temperature (in cooling) and condensing temperature (in heating) are automatically adjusted according to both indoor and outdoor temperature to maximize the comfort and energy efficiency.



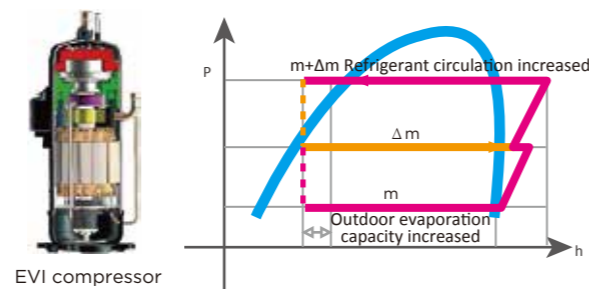
- **Output limitation during electricity supply restrictions**

With the integration of EMS, for projects with temporary electricity supply restrictions, V6 can be set to output 40-100% capacity.



Enhanced Vapor Injection (EVI) Compressor

Thanks to the vapor injection DC inverter compressor, the V6 VRF can run heating mode stably down to -23°C, and the heating capacity can be improved greatly.



Triple Configurations

Triple (local/remote/network) configurations greatly simplified installation, commissioning and servicing.

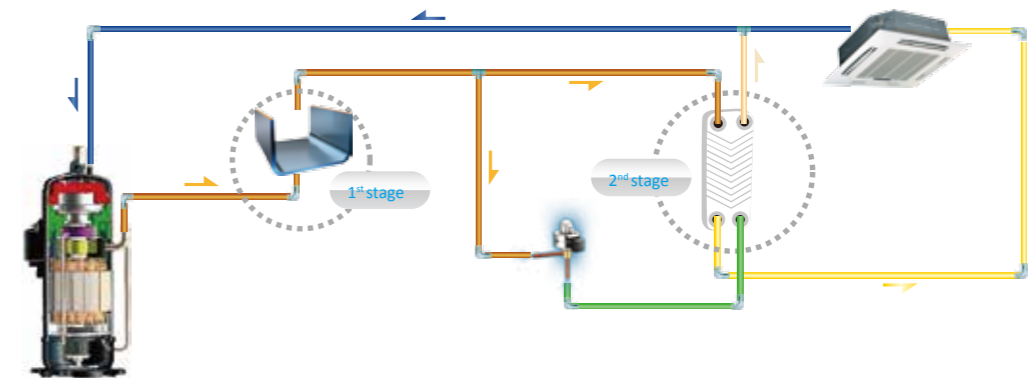
- Field local configuration achieves quick and easy on-site settings, simplifies installation and commissioning.
- System checking and settings also can be easily achieved via wired and centralized controller, making the configuration more flexible and convenient.
- A desktop or laptop PC can be used for browser-based access to achieve system configurations through IMM Pro gateway via a LAN connection.



High Efficiency

Plate Heat Exchanger (PHE) Subcooling

Plate Heat Exchanger as a secondary intercooler boosts up refrigerant subcooling and improves 10% energy efficiency.



High Efficiency G-Type Heat Exchanger

24-32HP units use a high efficiency 3-row G-type heat exchanger with a heat exchange area 1.5 times that of the 22HP unit. The 24-32HP units also use super big size fan which diameter is up to 750mm.



3-rows G-type heat exchanger

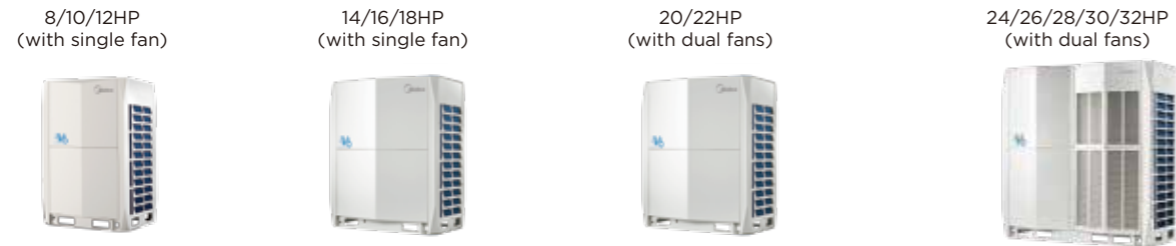


Super big size fan

Wide Application Range

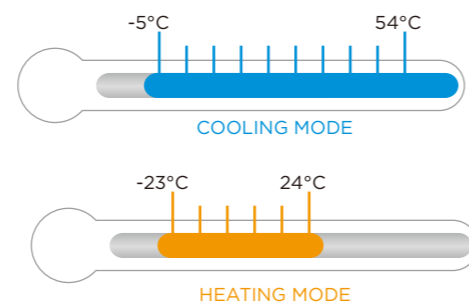
Wide Capacity Range

Starting at 8HP, capacity increases in 2HP increments up to 32HP, which is the world's largest single VRF unit capacity.



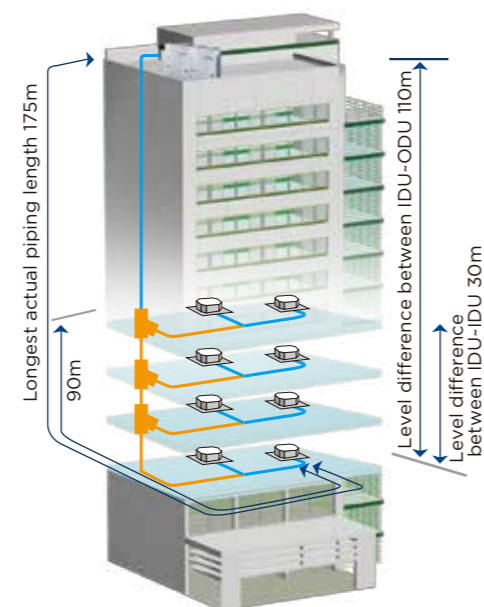
Wide Operation Range

The V6-i VRF can operate stably in a wide ambient temperature range: from -5°C to 54°C in cooling mode and from -23°C to 24°C in heating mode.



Long Piping Capability

- Total piping length: 1000m
- Longest piping length - actual (equivalent): 175m (200m)
- Longest piping length after first branch: 90m
- Level difference between IDUs and ODU - ODU above (below): 90m (110m)
- Level difference between IDUs: 30m

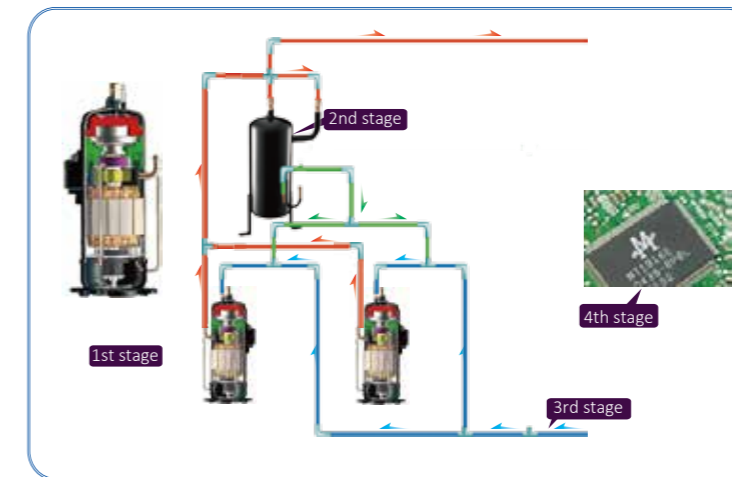


High Reliability

Precise Oil Control Technology

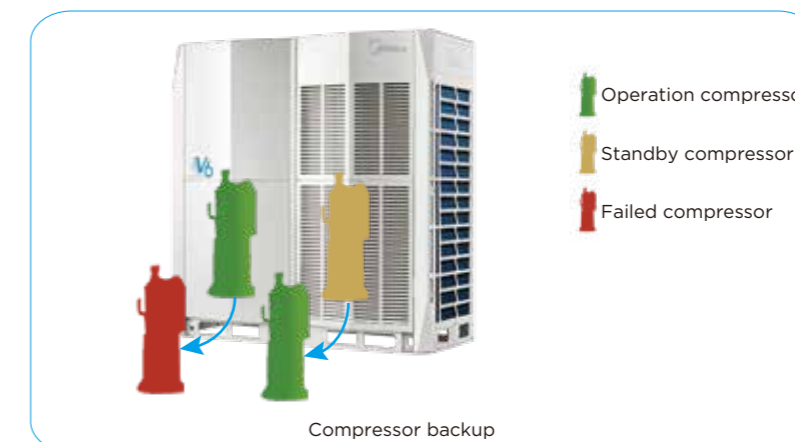
Four stages of oil control technology ensure all outdoor compressor oil is always kept at a safe level, eliminating any compressor oil shortage problems.

- Compressor internal oil separation.
- High-efficiency centrifugal oil separator (with separation efficiency of up to 99%) ensures that oil is separated from the discharge gas and returned to the compressors in a timely fashion.
- Oil balance pipes between compressors ensure even oil distribution to keep compressors running normally.
- Auto oil return program monitors the running time and system status to ensure reliable oil return.



Backup Operation

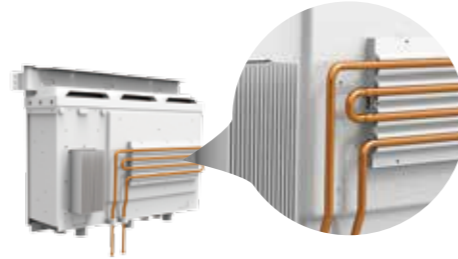
In units with two compressors, if one compressor fails, the other compressor can run on its own for up to 4 days, allowing time for maintenance or repair whilst maintaining comfort.



High Reliability

Refrigerant Cooling PCB

The V6-i VRF 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.



Anti-corrosion Protection

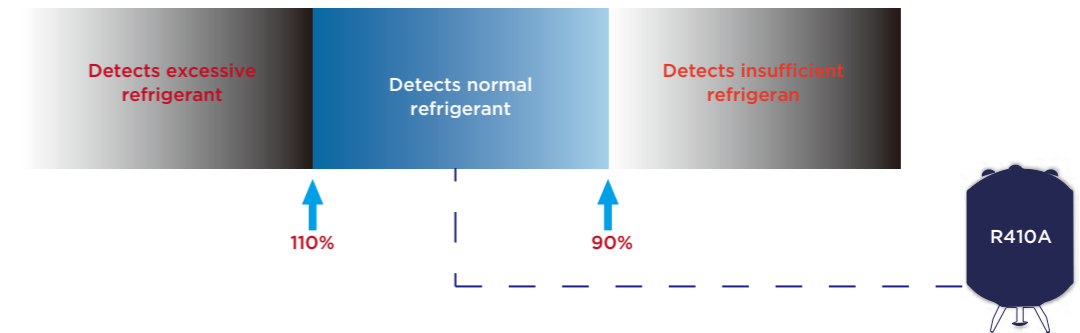
Outdoor units are given anti-corrosion treatment for non-extreme conditions as standard and can also be customized with heavy anti-corrosion treatment on main components for surface protection against corrosive air, acid rain and saline air (for installations in coastal regions) to extend overall useful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

- Fan motor**
Standard products: 72h of neutral salt mist
Heavy anti-corrosion products: 240h of neutral salt mist
- Painted sheet metal**
Standard products: 500h of neutral salt mist, 1000h of moisture and heating test, 500h of light aging test
Heavy anti-corrosion products: 1000h of neutral salt mist, 2000h of moisture and heating test, 720h of light aging test
- Screws / bolts / gaskets**
Standard products: 300h of neutral salt mist
Heavy anti-corrosion products: 720h of neutral salt mist
- Electric control box case**
Standard products: 96h of neutral salt mist
Heavy anti-corrosion products: 240h of neutral salt mist
- Heat exchanger aluminum foil**
Standard products: 72h of neutral salt mist
Heavy anti-corrosion products: 1000h of neutral salt mist, 140h of acid salt mist
- Heat exchanger copper pipe**
Standard products: 24h of neutral salt mist
Heavy anti-corrosion products: 120h of neutral salt mist

High Reliability

Real-time Refrigerant Amount Monitoring

The temperature and pressure of refrigerant can be real-time monitored by the outdoor unit. When the level of refrigerant is too low or too high, this can cause damage to the unit and poor performance. V6 outdoor unit can detect excessive or insufficient amounts of refrigerant, to ensure consistent performance.



Auto Snow-blowing Function*

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

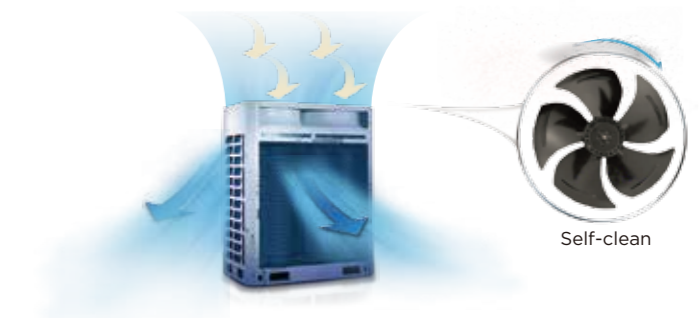
*This function is available as a customization option.



Dust-clean function*

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

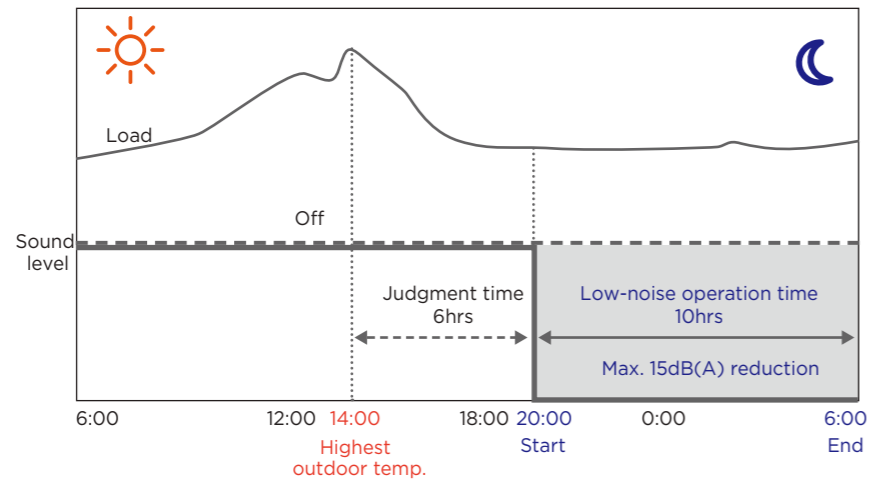
*This function is available as a customization option.



Enhanced Comfort

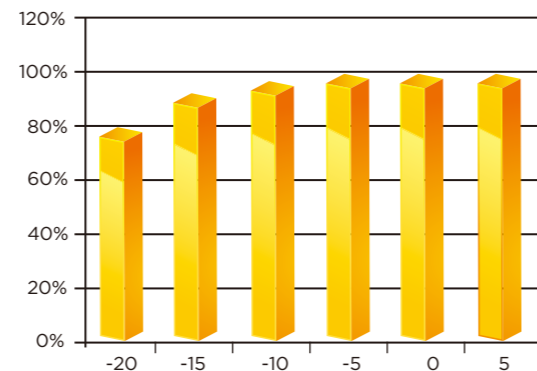
Night Silent Mode

The night silent mode feature, which is easily configured on the outdoor unit's PCB, includes various scheduling options that can be used to reduce noise levels at times when low noise operation is required.



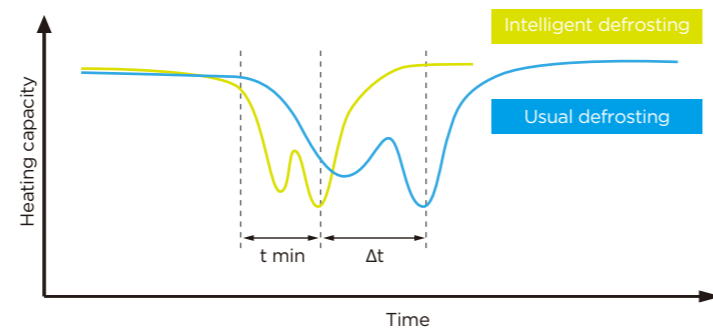
Enhanced Heating Capacity

Heating capacity is 100% of rated capacity at ambient temperatures as low as -5°C and 90% of rated capacity at -15°C.



Intelligent Defrosting Technology

The intelligent defrosting program calculates the time required for defrosting according to the actual system status, eliminating heat losses from unnecessary defrosting. A specialized defrosting valve reduces time required for defrosting to as little as four minutes.

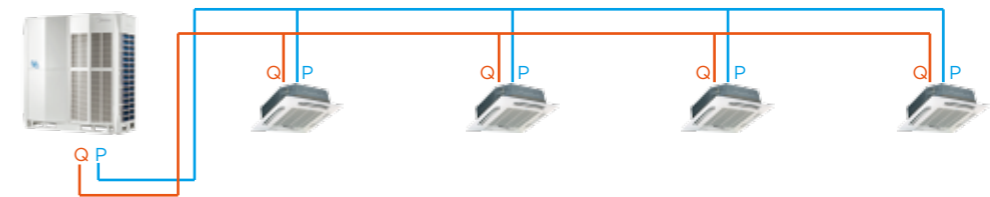


Easy Installation and Service

Non-polarized Communication Wiring*

Only one chain of 2-core non-polarized shielded communication wiring required for indoor and outdoor unit communication.

*In installations where relatively strong electromagnetic fields are present, 3-core shielded wiring should be used in order to prevent interference.



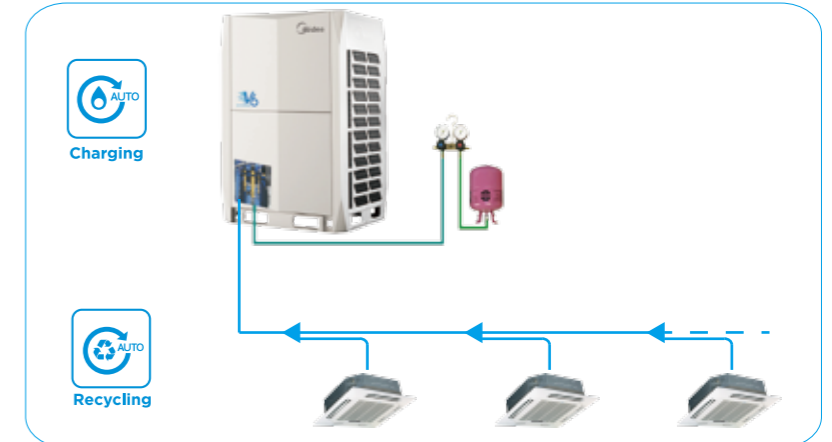
Auto Addressing

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.

Automatic Refrigerant Charging/Recycling Function*

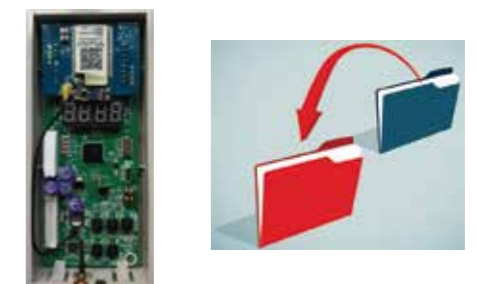
Automatic refrigerant charging and recycling make installation and service easier and more efficient.

*This function is available as a customization option.



Optional Multifunctional PCB

An optional multifunctional small PCB can be installed on the unit's side columns, enabling installation and service engineers to activate Auto-commissioning or check the operating status without removing the front panel. It can also perform automatic data backup of the last 30 minutes' operating record.



Specifications



Capacity		HP	8	10	12
Model			MV6-i252WV2GN1	MV6-i280WV2GN1	MV6-i335WV2GN1
Power supply		V/Ph/Hz	380-415/3/50(60)		
Cooling ¹	Capacity	kW	25.2	28	33.5
		kBtu/h	86	95.5	114.3
	Power input	kW	5.5	6.7	8.9
	EER		4.55	4.2	3.75
Heating ²	Capacity	kW	25.2	1	33.5
		kBtu/h	86	95.5	114.3
	Power input	kW	4.8	5.5	7.6
	COP		5.2	5.1	4.4
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		13	16	20
Compressors	Type		DC inverter		
	Quantity		1		
Fan motors	Type		DC		
	Quantity		1		
	Max. ESP	Pa	20 Default; 60 Customization Option		
Refrigerant	Type		R410A		
	Factory charge	kg	11		
Pipe connections ³	Liquid pipe	mm	Φ12.7		Φ15.9
	Gas pipe	mm	Φ25.4		Φ28.6
Airflow rate			11000		
Sound pressure level ⁴	dB(A)		58	58	60
Net dimensions (W×H×D)	mm		990×1635×790		
Packed dimensions (W×H×D)	mm		1090×1805×860		
Net weight	kg		227		
Gross weight	kg		242		
Ambient temp. operating range	Cooling	°C	-5 to 54		
	Heating	°C	-23 to 24		



Capacity		HP	14	16	18
Model			MV6-i400WV2GN1	MV6-i450WV2GN1	MV6-i500WV2GN1
Power supply		V/Ph/Hz	380-415/3/50(60)		
Cooling ¹	Capacity	kW	40	45	50
		kBtu/h	136.5	153.5	170.6
	Power input	kW	11	12.9	14.7
	EER		3.65	3.5	3.4
Heating ²	Capacity	kW	40	45	50
		kBtu/h	136.5	153.5	170.6
	Power input	kW	9.3	10.7	12.2
	COP		4.3	4.2	4.1
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity		
	Maximum quantity		23	26	29
Compressors	Type		DC inverter		
	Quantity		1		
Fan motors	Type		DC		
	Quantity		1		
	Max. ESP	Pa	20 Default; 60 Customization Option		
Refrigerant	Type		R410A		
	Factory charge	kg	13		
Pipe connections ³	Liquid pipe	mm	Φ15.9		Φ19.1
	Gas pipe	mm	Φ31.8		Φ38.1
Airflow rate			13000		
Sound pressure level ⁴	dB(A)		60	61	62
Net dimensions (W×H×D)	mm		1340×1635×850		
Packed dimensions (W×H×D)	mm		1405×1805×910		
Net weight	kg		277		295
Gross weight	kg		304		322
Ambient temp. operating range	Cooling	°C	-5 to 54		
	Heating	°C	-23 to 24		

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those of the unit's stop valves.
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

Specifications



Capacity		HP	20	22
Model			MV6-i560WV2GN1	MV6-i615WV2GN1
Power supply		V/Ph/Hz	380-415/3/50(60)	
Cooling ¹	Capacity	kW	56	61.5
		kBtu/h	191.1	209.8
	Power input	kW	16	20.2
	EER		3.5	3.05
Heating ²	Capacity	kW	56	61.5
		kBtu/h	191.1	209.8
	Power input	kW	13.8	17.6
	COP		4.05	3.5
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity	
	Maximum quantity		33	36
Compressors	Type		DC inverter	
	Quantity		2	
Fan motors	Type		DC	
	Quantity		2	
	Max. ESP	Pa	20 Default; 60 Customization Option	
Refrigerant	Type		R410A	
	Factory charge	kg	17	
Pipe connections ³	Liquid pipe	mm	Φ19.1	
	Gas pipe	mm	Φ31.8	
Airflow rate			17000	
Sound pressure level ⁴	dB(A)		63	
Net dimensions (W×H×D)	mm		1340×1635×825	
Packed dimensions (W×H×D)	mm		1405×1805×910	
Net weight	kg		344	
Gross weight	kg		364	
Ambient temp. operating range	Cooling	°C	-5 to 54	
	Heating	°C	-23 to 24	



Capacity		HP	24	26	28	30	32
Model			MV6-i670WV2GN1	MV6-i730WV2GN1	MV6-i785WV2GN1	MV6-i850WV2GN1	MV6-i900WV2GN1
Power supply		V/Ph/Hz	380-415/3/50(60)				
Cooling ¹	Capacity	kW	67	73	78.5	85	90
		kBtu/h	228.6	249.1	267.8	290	307.1
	Power input	kW	21.6	21.6	24.9	28.3	32.1
	EER		3.1	3.4	3.15	3	2.8
Heating ²	Capacity	kW	67	73	78.5	85	90
		kBtu/h	228.6	249.1	267.8	290	307.1
	Power input	kW	16.8	18.1	21.8	24.3	26.5
	COP		4	4.05	3.6	3.5	3.4
Connected indoor unit	Total capacity		50-130% of outdoor unit capacity				
	Maximum quantity		39	43	46	50	53
Compressors	Type		DC inverter				
	Quantity		2				
Fan motors	Type		DC				
	Quantity		2				
	Max. ESP	Pa	20 Default; 60 Customization Option				
Refrigerant	Type		R410A				
	Factory charge	kg	22		25		
Pipe connections ³	Liquid pipe	mm	Φ19.1	Φ22.2			
	Gas pipe	mm	Φ31.8		Φ38.1		
Airflow rate			25000		24000		
Sound pressure level ⁴	dB(A)		64				
Net dimensions (W×H×D)	mm		1730×1830×850				
Packed dimensions (W×H×D)	mm		1800×2000×910				
Net weight	kg		407		429		475
Gross weight	kg		430		452		507
Ambient temp. operating range	Cooling	°C	-5 to 54				
	Heating	°C	-23 to 24				

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
- Diameters given are those of the unit's stop valves.
- Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

2nd Generation VRF DC INDOOR UNITS

27

One-way Cassette

28

Two-way Cassette

29

Compact Four-way
Cassette

30

Four-way Cassette

31

Medium Static
Pressure Duct

32

High Static
Pressure Duct

33

Fresh Air
Processing Unit

34

Wall Mounted Unit

35

Ceiling / Floor Unit

36

Floor Standing Unit

38

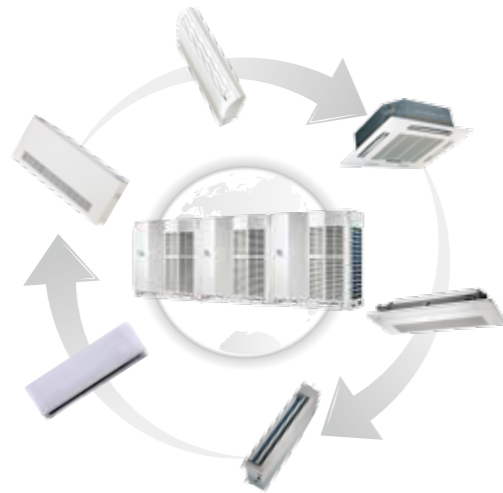
Console



Wide Application Range

Wide Range of Indoor Units

With 11 types and more than 100 models, Midea VRF indoor units meet varied customer requirements in a wide range of locations including shopping malls, hospitals, office buildings, hotels and airports.



Multiple Appearance Options

For Wall Mounted Units, three interchangeable panels add extra flexibility to a universal body design.



For Four-way Cassette and Compact Four-way Cassette Units, interchangeable 360° airflow and four-way airflow panels are available.



For Floor Standing Units, the F3B (concealed) unit is designed to be concealed in walls while the F4 (front air intake) and F5 (underside air intake) offer a choice of air intake options.



Comfort and Efficiency

High Efficiency DC Fan Motor

The power consumption of DC fan motor can be reduced greatly in comparison to corresponding AC type.



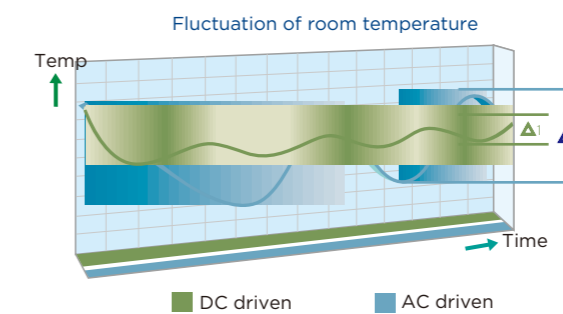
Quiet Operation

The low sound operation DC fan motor and optimized fan blades guarantees the air discharge smoothly and provides a quiet living environment.



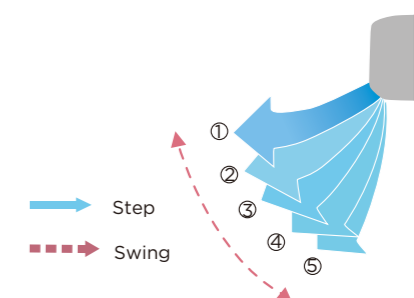
Constant Level of Indoor Air Temperature

Plate Heat Exchanger as a secondary intercooler to gain up to 18°C subcooling and improves 10% energy efficiency.



5-step Swing Louver

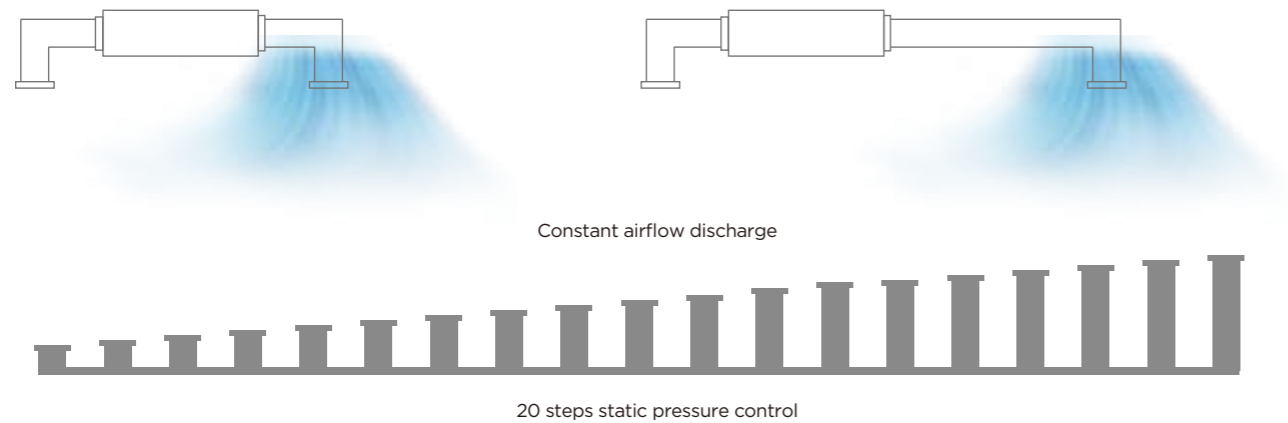
The air is comfortably spread upwards and downwards thanks to the 5-step swing louver that can be programmed via the controller.



Comfort and Efficiency

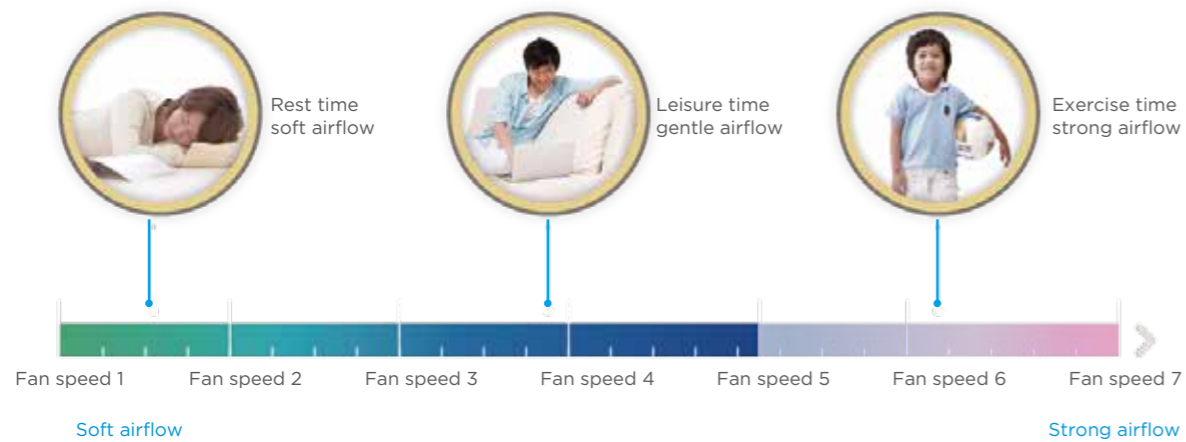
Static Pressure 20 Steps Control (Duct Unit)

Depending on the installation environment, medium static pressure duct is controlled the static pressure up to 10 steps and high static pressure duct is controlled the static pressure up to 20 steps via wired remote controller, for providing comfortable environment suitable for any environment.



7-Speed Fan Control

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



Fresh Air Intake

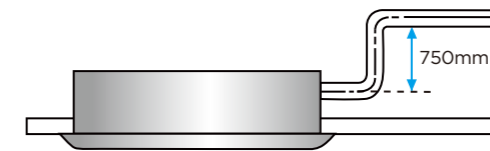
On selected models, a reserved outside air intake port allows outdoor air to be introduced directly into the unit, negating the need for a separate ventilation system.



Convenience

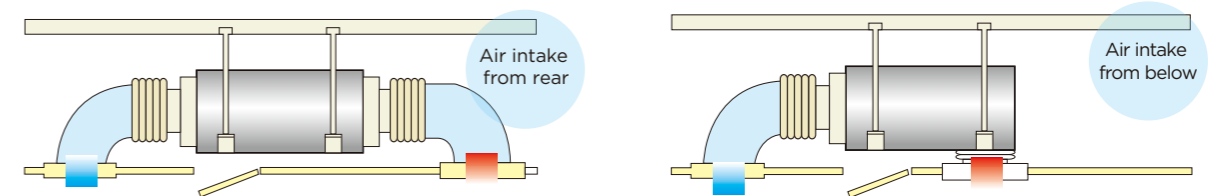
High-lift Drain Pump

A drain pump with a 750mm or 500mm pump head is fitted as standard or optional, simplifying installation of the drain piping.

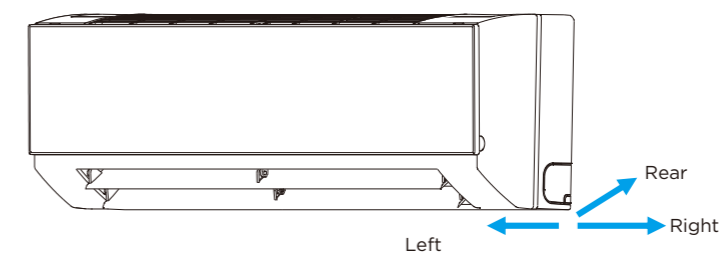


Flexible Installation

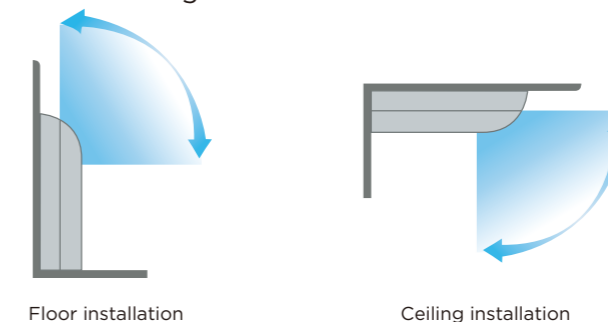
For Medium Static Pressure Duct Units, to provide the flexibility to adapt to differing installation situations, the air inlet may be positioned either on the underside or the rear of the unit.



For Wall Mounted Units, the refrigerant outlet direction can be left, right or rear as the installation situation requires. A new fixing plate design speeds installation and provides extra stability.

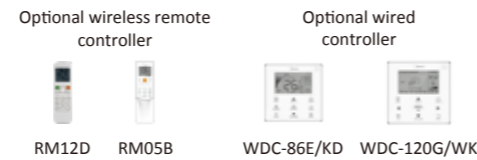


Ceiling / Floor Units can be installed either on the ceiling or the floor, providing flexibility to accommodate a wide range of room designs.



One-way Cassette

- Fresh air intake
- One-way air discharge, ideal for corner locations
- Drain pump with 750mm pump head fitted as standard



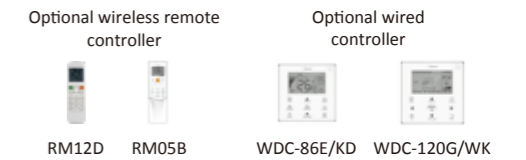
Model	MI2-18Q1DHN1	MI2-22Q1DHN1	MI2-28Q1DHN1	MI2-36Q1DHN1		
Power supply	1-phase, 220-240V, 50/60Hz					
Cooling ¹	Capacity	kW	1.8	2.2	2.8	3.6
		kBtu/h	6.1	7.5	9.6	12.3
	Power input	W	25	25	30	30
Heating ²	Capacity	kW	2.2	2.6	3.2	4.0
		kBtu/h	7.5	8.9	10.9	13.6
	Power input	W	25	25	30	30
Air flow rate ³	m ³ /h		523/482/448/404/360/312/275		573/531/492/456/420/364/315	
Sound pressure level ⁴	dB(A)		37/36/35/34/32/31/30		39/38/37/36/35/35/34	
Main body	Net dimensions ⁵ (WxHxD)	mm	1054×153×425			
	Packed dimensions (WxHxD)	mm	1155×245×490			
	Net/Gross weight	kg	11.8/15.3		12.3/15.8	
Panel	Net dimensions (WxHxD)	mm	1180×25×465			
	Packed dimensions (WxHxD)	mm	1232×107×517			
	Net/Gross weight	kg	3.5/5.2			
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7			
	Drain pipe	mm	OD Φ32			

Model	MI2-45Q1DHN1	MI2-56Q1DHN1	MI2-71Q1DHN1					
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	40	48	60			
Heating ²	Capacity	kW	5.0	6.3	8.0			
		kBtu/h	17.1	21.5	27.3			
	Power input	W	40	48	60			
Air flow rate ³	m ³ /h		693/662/638/600/556/510/476		792/763/728/688/643/589/549		933/873/815/749/689/637/592	
Sound pressure level ⁴	dB(A)		41/40/39/38/37/36/35		42/41/40/39/38/37/36		44/43/42/41/39/38/37	
Main body	Net dimensions ⁵ (WxHxD)	mm	1275×189×450					
	Packed dimensions (WxHxD)	mm	1370×295×505					
	Net/Gross weight	kg	16.1/20.4		16.4/20.7		17.6/22.4	
Panel	Net dimensions (WxHxD)	mm	1350×25×505					
	Packed dimensions (WxHxD)	mm	1410×95×560					
	Net/Gross weight	kg	4/5.4					
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7		Φ9.53/Φ15.9			
	Drain pipe	mm	OD Φ32					

- Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
 2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
 3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
 4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
 5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Two-way Cassette

- Two-way air discharge, perfect for limited ceiling space applications
- Drain pump with 750mm pump head fitted as standard



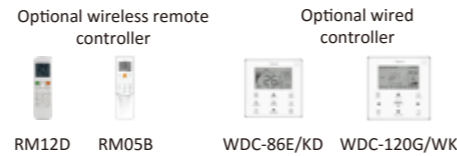
Model	MI2-22Q2DHN1	MI2-28Q2DHN1	MI2-36Q2DHN1			
Power supply	1-phase, 220-240V, 50/60Hz					
Cooling ¹	Capacity	kW	2.2	2.8	3.6	
		kBtu/h	7.5	9.6	12.3	
	Power input	W	35	40	40	
Heating ²	Capacity	kW	2.6	3.2	4.0	
		kBtu/h	8.9	10.9	13.6	
	Power input	W	35	40	40	
Air flow rate ³	m ³ /h		654/612/571/530/488/449/410		725/679/641/591/554/509/458	
Sound pressure level ⁴	dB(A)		33/31/30/29/27/25/24		35/33/32/30/29/27/25	
Main body	Net dimensions ⁵ (WxHxD)	mm	1172×299×591			
	Packed dimensions (WxHxD)	mm	1355×400×675			
	Net/Gross weight	kg	33.5/42.0			
Panel	Net dimensions (WxHxD)	mm	1430×53×680			
	Packed dimensions (WxHxD)	mm	1525×130×765			
	Net/Gross weight	kg	10.5/15			
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7			
	Drain pipe	mm	OD Φ32			

Model	MI2-45Q2DHN1	MI2-56Q2DHN1	MI2-71Q2DHN1					
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	50	69	98			
Heating ²	Capacity	kW	5.0	6.3	8.0			
		kBtu/h	17.1	21.5	27.3			
	Power input	W	50	69	98			
Air flow rate ³	m ³ /h		850/792/731/670/631/592/550		980/925/855/800/755/702/670		1200/1115/1068/1000/921/808/770	
Sound pressure level ⁴	dB(A)		37/36/35/34/32/31/30		39/37/36/35/33/31/30		44/42/41/40/38/36/34	
Main body	Net dimensions ⁵ (WxHxD)	mm	1172×299×591					
	Packed dimensions (WxHxD)	mm	1355×400×675					
	Net/Gross weight	kg	35/43.5					
Panel	Net dimensions (WxHxD)	mm	1430×53×680					
	Packed dimensions (WxHxD)	mm	1525×130×765					
	Net/Gross weight	kg	10.5/15					
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7		Φ9.53/Φ15.9			
	Drain pipe	mm	OD Φ32					

- Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
 2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
 3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
 4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
 5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Compact Four-way Cassette

- Fresh air intake
- 360° airflow allows for even, wide-range cooling and heating
- Drain pump with 500mm pump head fitted as standard

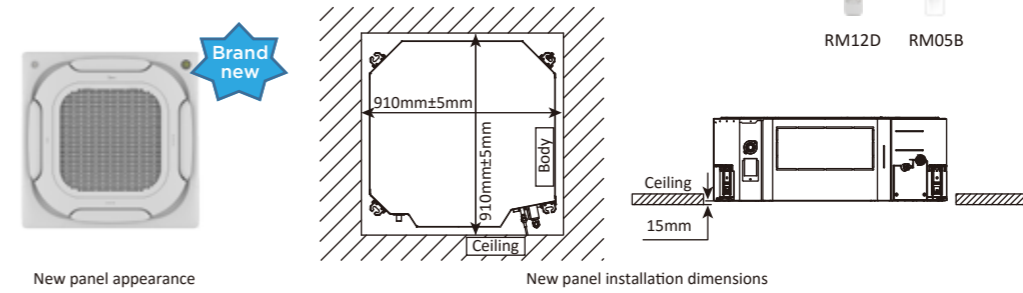
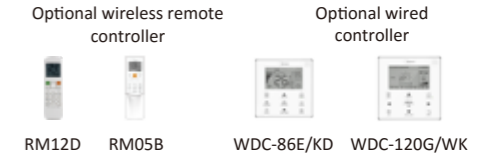


Model	MI2-22Q4CDHN1	MI2-28Q4CDHN1	MI2-36Q4CDHN1	MI2-45Q4CDHN1		
Power supply	1-phase, 220-240V, 50/60Hz					
Cooling ¹	Capacity	kW	2.2	2.8	3.6	4.5
		kBtu/h	7.5	9.6	12.3	15.4
	Power input	W	35	35	40	50
Heating ²	Capacity	kW	2.4	3.2	4.0	5.0
		kBtu/h	8.2	10.9	13.6	17.1
	Power input	W	35	35	40	50
Air flow rate ³	m ³ /h	576/552/524/503/462/441/405		604/573/541/516/478/434/400		
Sound pressure level ⁴	dB(A)	35/34/33/29/26/23/22		41/38/35/32/30/29/28		
Main body	Net dimensions ⁵ (WxHxD)	mm	630×260×570			
	Packed dimensions (WxHxD)	mm	700×330×660			
	Net/Gross weight	kg	18/23.5	19.2/24.7		
Panel	Net dimensions (WxHxD)	mm	647×50×647			
	Packed dimensions (WxHxD)	mm	715×123×715			
	Net/Gross weight	kg	2.5/4.5			
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7			
	Drain pipe	mm	OD Φ32			

- Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
 2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
 3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
 4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
 5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Four-way Cassette

- Fresh air intake
- Four-way airflow, allows wide-angle, equal distribution of cooling and heating
- Drain pump with 750mm pump head fitted as standard
- Brand-new, elegant panel with four independently controlled louvers



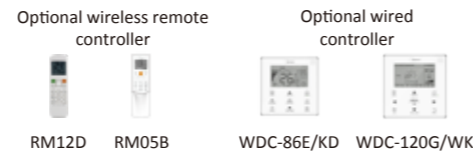
Model	MI2-28Q4DHN1	MI2-36Q4DHN1	MI2-45Q4DHN1	MI2-56Q4DHN1	MI2-71Q4DHN1		
Power supply	1 phase, 220-240V, 50/60Hz						
Cooling ¹	Capacity	kW	2.8	3.6	4.5	5.6	7.1
		kBtu/h	9.6	12.3	15.4	19.1	24.2
	Power input	W	25	25	31	31	46
Heating ²	Capacity	kW	3.2	4.0	5.0	6.3	8.0
		kBtu/h	10.9	13.6	17.1	21.5	27.3
	Power input	W	25	25	31	31	46
Air flow rate ³	m ³ /h	982/935/877/832/788/732/677		1029/957/899/857/801/756/704		1200/1132/1065/996/920/866/748	
Sound pressure level ⁴	dB(A)	42/40/38/37/35/34/32		43/41/39/38/36/35/34		45/43/41/39/37/35/34	
Main body	Net dimensions ⁵ (WxHxD)	mm	904×230×840				
	Packed dimensions (WxHxD)	mm	955×260×955				
	Net/Gross weight	kg	21.3/25.8		23.2/27.6		
Panel	Net dimensions (WxHxD)	mm	950×54.5×950				
	Packed dimensions (WxHxD)	mm	1035×90×1035				
	Net/Gross weight	kg	5/8				
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7		Φ9.53/Φ15.9		
	Drain pipe	mm	OD Φ32				

Model	MI2-80Q4DHN1	MI2-90Q4DHN1	MI2-100Q4DHN1	MI2-112Q4DHN1	MI2-140Q4DHN1		
Power supply	1 phase, 220-240V, 50/60Hz						
Cooling ¹	Capacity	kW	8.0	9.0	10.0	11.2	14.0
		kBtu/h	27.3	30.7	34.1	38.2	47.8
	Power input	W	48	75	75	75	94
Heating ²	Capacity	kW	9.0	10.0	11.0	12.5	16.0
		kBtu/h	30.7	34.1	37.5	42.7	54.6
	Power input	W	48	75	75	75	94
Air flow rate ³	m ³ /h	1264/1195/1117/1055/975/893/811		1596/1477/1365/1239/1154/1087/1034		1727/1622/1517/1426/1351/1289/1224	
Sound pressure level ⁴	dB(A)	46/44/42/40/38/36/35		47/45/43/41/39/37/36		50/48/46/45/38/36/35	
Main body	Net dimensions ⁵ (WxHxD)	mm	904×230×840		904×300×840		
	Packed dimensions (WxHxD)	mm	955×260×955		955×330×955		
	Net/Gross weight	kg	23.2/27.6		28.4/33.8		30.7/35.8
Panel	Net dimensions (WxHxD)	mm	950×54.5×950				
	Packed dimensions (WxHxD)	mm	1035×90×1035				
	Net/Gross weight	kg	5/8				
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9				
	Drain pipe	mm	OD Φ32				

- Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
 2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
 3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
 4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
 5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Medium Static Pressure Duct

- Fresh air intake
- 6-step static pressure control on 2.2kW to 7.1kW models and 10-step static pressure control on 8kW to 14kW units (requires latest generation wired controllers)
- Drain pump with 750mm pump head fitted as standard
- Flexible installation for the air inlet may be positioned either on the underside or the rear of the unit



Model	MI2-22T2DHN1		MI2-28T2DHN1		MI2-36T2DHN1	
Power supply	1 phase, 220-240V, 50/60Hz					
Cooling ¹	Capacity	kW	2.2	2.8	3.6	
		kBtu/h	7.5	9.6	12.3	
Heating ²	Capacity	kW	2.6	3.2	4.0	
		kBtu/h	8.2	10.9	13.6	
Air flow rate ³	m ³ /h	520/480/440/400/360/330/300			580/540/500/460/430/400/370	
External static pressure	Pa	10 (0~50)				
Sound pressure level ⁴	dB(A)	35/35/34/34/33/32/31				37/37/36/36/35/34/33
Unit	Net dimensions ⁵ (WxHxD)	mm	780×210×500			
	Packed dimensions (WxHxD)	mm	870×285×525			
	Net/Gross weight	kg	18/21			
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/ Φ12.7			
	Drain pipe	mm	OD Φ25			

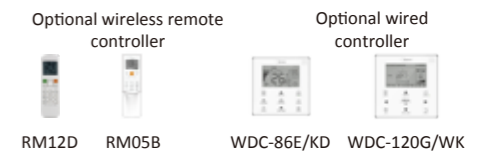
Model	MI2-45T2DHN1		MI2-56T2DHN1		MI2-71T2DHN1	
Power supply	1 phase, 220-240V, 50/60Hz					
Cooling ¹	Capacity	kW	4.5	5.6	7.1	
		kBtu/h	15.4	19.1	24.2	
Heating ²	Capacity	kW	5.0	6.3	8.0	
		kBtu/h	17.1	21.5	27.3	
Air flow rate ³	m ³ /h	800/740/680/620/540/480/400		830/760/720/680/640/600/560		1000/960/900/840/780/720/680
External static pressure	Pa	10 (0~50)				
Sound pressure level ⁴	dB(A)	38/37/37/36/35/34/33		38/38/37/36/35/34/33		40/39/38/37/36/35/34
Unit	Net dimensions ⁵ (WxHxD)	mm	1000×210×500			1220×210×500
	Packed dimensions (WxHxD)	mm	1115×285×525			1335×285×525
	Net/Gross weight	kg	21.5/25			27.5/31.5
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/ Φ12.7		Φ9.53/Φ15.9	
	Drain pipe	mm	OD Φ25			

Model	MI2-80T2DHN1		MI2-90T2DHN1		MI2-112T2DHN1		MI2-140T2DHN1		
Power supply	1 phase, 220-240V, 50/60Hz								
Cooling ¹	Capacity	kW	8.0	9.0	11.2	14.0			
		kBtu/h	27.3	30.7	38.2	47.8			
Heating ²	Capacity	kW	9.0	10.0	12.5	15.5			
		kBtu/h	30.7	34.1	42.7	52.9			
Air flow rate ³	m ³ /h	1260/1180/1100/1020/940/860/780		1500/1430/1360/1290/1210/1140/1080		1960/1860/1760/1660/1560/1460/1360			
External static pressure	Pa	20 (10~100)						40 (30~150)	
Sound pressure level ⁴	dB(A)	44/43/42/41/39/38/37			47/46/44/43/41/39/37		47/46/44/43/41/39/38		
Unit	Net dimensions ⁵ (WxHxD)	mm	1230×270×775				1290×300×865		
	Packed dimensions (WxHxD)	mm	1355×350×795				1400×375×925		
	Net/Gross weight	kg	36.5/44.5		37/45		46.5/55.5		
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9						
	Drain pipe	mm	OD Φ25						

- Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
 2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
 3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
 4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
 5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.
- All specifications are measured at standard external static pressure.

High Static Pressure Duct

- External static pressure up to 400Pa facilitates extensive duct and grille network
- 20-step static pressure control on all models (requires latest generation wired controllers)
- A double-skin drainage pan provides double protection for ceilings (models 71 to 160)
- Drain pump with a 750mm pump head available as a customization option



Model	MI2-71T1DHN1		MI2-80T1DHN1		MI2-90T1DHN1	
Power supply	1 phase, 220-240V, 50/60Hz					
Cooling ¹	Capacity	kW	7.1	8.0	9.0	
		kBtu/h	24.2	27.3	30.7	
Heating ²	Capacity	kW	8.0	9.0	10.0	
		kBtu/h	27.3	30.7	34.1	
Air flow rate ³	m ³ /h	1360/1333/1296/1264/1234/1197/1159		1360/1333/1296/1264/1234/1197/1159		1428/1378/1328/1285/1237/1195/1151
External static pressure	Pa	100 (30~200)				
Sound pressure level ⁴	dB(A)	46/46/45/45/44/43/42		46/46/45/45/44/43/42		50/49/48/48/47/46/45
Unit	Net dimensions ⁵ (WxHxD)	mm	952×420×690			
	Packed dimensions (WxHxD)	mm	1090×440×768			
	Net/Gross weight	kg	41/47			51/57
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9			
	Drain pipe	mm	OD Φ25			

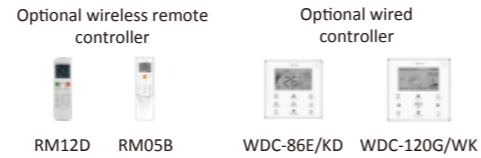
Model	MI2-112T1DHN1		MI2-140T1DHN1		MI2-160T1DHN1	
Power supply	1 phase, 220-240V, 50/60Hz					
Cooling ¹	Capacity	kW	11.2	14.0	16.0	
		kBtu/h	38.2	47.8	54.6	
Heating ²	Capacity	kW	12.5	16.0	17.0	
		kBtu/h	42.7	54.6	58.0	
Air flow rate ³	m ³ /h	1886/1775/1695/1614/1528/1429/1354		2258/2127/2033/1927/1818/1707/1601		2608/2501/2354/2239/2099/2013/1879
External static pressure	Pa	100 (30~200)				
Sound pressure level ⁴	dB(A)	50/50/49/48/47/46/45		53/52/51/51/50/49/48		54/54/53/52/51/50/50
Unit	Net dimensions ⁵ (WxHxD)	mm	952×420×690			1300×420×690
	Packed dimensions (WxHxD)	mm	1090×440×768			1436×450×768
	Net/Gross weight	kg	51/57			63/70
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ19.1			
	Drain pipe	mm	OD Φ25			

Model	MI2-200T1DHN1		MI2-250T1DHN1		MI2-280T1DHN1	
Power supply	1 phase, 220-240V, 50/60Hz					
Cooling ¹	Capacity	kW	20.0	25.0	28.0	
		kBtu/h	68.2	85.3	95.5	
Heating ²	Capacity	kW	22.5	26.0	31.5	
		kBtu/h	76.8	88.7	107.5	
Air flow rate ³	m ³ /h	4358/4237/4144/4043/3941/3837/3745				
External static pressure	Pa	170 (20~250)				
Sound pressure level ⁴	dB(A)	57/56/55/54/53/52/50				
Unit	Net dimensions ⁵ (WxHxD)	mm	1440×505×925			
	Packed dimensions (WxHxD)	mm	1509×550×990			
	Net/Gross weight	kg	130/142			
Pipe connections	Liquid/Gas pipe	mm	Φ12.7/Φ22.2			
	Drain pipe	mm	OD Φ32			

- Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
 2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
 3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
 4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
 5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.
- All specifications are measured at standard external static pressure.

Fresh Air Processing Unit

- 100% fresh air processing unit, both fresh air filtration and heating/cooling can be achieved in a single system
- External static pressure up to 400Pa facilitates extensive duct and grille network
- 20-step static pressure control on all models (requires latest generation wired controllers)
- Drain pump with a 750mm pump head available as a customization option



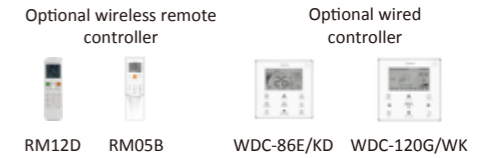
Model	MI2-125FADHN1		MI2-140FADHN1	
Power supply	1 phase, 220-240V, 50/60Hz			
Cooling ¹	Capacity	kW	12.5	14.0
		kBtu/h	42.6	47.8
Power input	W		370	370
Heating ²	Capacity	kW	10.5	12.0
		kBtu/h	36.0	41.0
Power input	W		370	370
Air flow rate ³	m ³ /h	2440/2279/2117/1956/1794/1632/1470		
External static pressure	Pa	180 (30~200)		
Sound pressure level ⁴	dB(A)	52/51/51/50/50/49/48		
Unit	Net dimensions ⁵ (WxHxD)	mm	1300×420×690	
	Packed dimensions (WxHxD)	mm	1436×450×768	
	Net/Gross weight	kg	63/70	
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ19.1	
	Drain pipe	mm	OD Φ25	

Model	MI2-200FADHN1		MI2-250FADHN1		MI2-280FADHN1	
Power supply	1 phase, 220-240V, 50/60Hz					
Cooling ¹	Capacity	kW	20.0	25.0	28.0	
		kBtu/h	68.2	85.3	95.5	
Power input	W		615	670	670	
Heating ²	Capacity	kW	18.0	20.0	22.0	
		kBtu/h	61.4	68.2	75.0	
Power input	W		615	670	670	
Air flow rate ³	m ³ /h	3860/3699/3537/3376/3214/3053/2890				
External static pressure	Pa	200 (30~250)				
Sound pressure level ⁴	dB(A)	53/53/52/52/51/50/50				
Unit	Net dimensions ⁵ (WxHxD)	mm	1450×505×925			
	Packed dimensions (WxHxD)	mm	1509×550×990			
	Net/Gross weight	kg	130/142			
Pipe connections	Liquid/Gas pipe	mm	Φ12.7/Φ22.2			
	Drain pipe	mm	OD Φ32			

- Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
 2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
 3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
 4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
 5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments. All specifications are measured at standard external static pressure.

Wall Mounted Unit

- Three interchangeable panels allow units to blend easily with any interior decoration, perfect for rooms with no false ceilings or free floor space
- Refrigerant outlet direction can be left, right or rear as the installation situation requires



Model	MI2-22GDHN1		MI2-28GDHN1	
Power supply	1 phase, 220-240V, 50/60Hz			
Cooling ¹	Capacity	kW	2.2	2.8
		kBtu/h	7.5	9.6
Power input	W		28	28
Heating ²	Capacity	kW	2.4	3.2
		kBtu/h	8.2	10.9
Power input	W		28	28
Air flow rate ³	m ³ /h	422/411/402/393/380/368/356		417/402/386/370/353/338/316
Sound pressure level ⁴	dB(A)	31/30/30/30/29/29/29		31/30/30/30/29/29/29
Unit	Net dimensions ⁵ (WxHxD)	mm	835×280×203	
	Packed dimensions (WxHxD)	mm	935×385×320	
	Net/Gross weight	kg	8.4/12.1	
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	
	Drain pipe	mm	OD Φ16	

Model	MI2-36GDHN1		MI2-45GDHN1		MI2-56GDHN1	
Power supply	1 phase, 220-240V, 50/60Hz					
Cooling ¹	Capacity	kW	3.6	4.5	5.6	
		kBtu/h	12.3	15.4	19.1	
Power input	W		30	40	45	
Heating ²	Capacity	kW	4.0	5.0	6.3	
		kBtu/h	13.6	17.1	21.5	
Power input	W		30	40	45	
Air flow rate ³	m ³ /h	656/628/591/573/544/515/488		594/563/535/507/478/450/424		747/713/685/648/613/578/547
Sound pressure level ⁴	dB(A)	33/32/32/31/31/30/30		35/34/33/33/32/31/31		38/37/36/36/35/34/34
Unit	Net dimensions ⁵ (WxHxD)	mm	990×315×223			
	Packed dimensions (WxHxD)	mm	1085×420×335			
	Net/Gross weight	kg	11.4/15.5		12.8/16.9	
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7		Φ9.53/Φ15.9	
	Drain pipe	mm	OD Φ16			

Model	MI2-71GDHN1		MI2-80GDHN1		MI2-90GDHN1	
Power supply	1 phase, 220-240V, 50/60Hz					
Cooling ¹	Capacity	kW	7.1	8.0	9.0	
		kBtu/h	24.2	27.3	30.7	
Power input	W		55	55	82	
Heating ²	Capacity	kW	8.0	9.0	10.0	
		kBtu/h	27.3	30.7	34.1	
Power input	W		55	55	82	
Air flow rate ³	m ³ /h	1195/1130/1065/1005/940/875/809		1195/1130/1065/1005/940/875/809		1421/1300/1125/1067/1005/934/867
Sound pressure level ⁴	dB(A)	44/43/42/39/38/37/36		44/43/42/39/38/37/36		48/46/45/43/41/40/38
Unit	Net dimensions ⁵ (WxHxD)	mm	1194×343×262			
	Packed dimensions (WxHxD)	mm	1290×375×460			
	Net/Gross weight	kg	17.0/22.4			
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9			
	Drain pipe	mm	OD Φ16			

- Notes:
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
 2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
 3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
 4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1m in front and 1m below the unit in a semi-anechoic chamber.
 5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Ceiling / Floor

- Can be installed either on the ceiling or floor



Optional wireless remote controller



RM12D RM05B

Optional wired controller



WDC-86E/KD WDC-120G/WK

Model		MI2-36DLH1	MI2-45DLH1	MI2-56DLH1	MI2-71DLH1	
Power supply		1 phase, 220-240V, 50/60Hz				
Cooling ¹	Capacity	kW	3.6	4.5	5.6	7.1
		kBtu/h	12.3	15.4	19.1	24.2
	Power input	W	49	115	115	115
Heating ²	Capacity	kW	4.0	5.0	6.3	8.0
		kBtu/h	13.6	17.1	21.5	27.3
	Power input	W	49	115	115	115
Air flow rate ³	m ³ /h	550/525/500/480/460/440/420		930/895/860/830/792/755/720		
Sound pressure level ⁴	dB(A)	40/39/38/37/36/36		43/42/41/41/39/38/38		
Unit	Net dimensions ⁵ (WxHxD)	mm 990×660×203				
	Packed dimensions (WxHxD)	mm 1089×744×296				
	Net/Gross weight	kg 26/32		28/34		
Pipe connections	Liquid/Gas pipe	mm Φ6.35/Φ12.7		Φ9.53/Φ15.9		
	Drain pipe	mm OD Φ16				

Model		MI2-80DLH1	MI2-90DLH1	MI2-112DLH1	MI2-140DLH1	
Power supply		1 phase, 220-240V, 50/60Hz				
Cooling ¹	Capacity	kW	8.0	9.0	11.2	14.0
		kBtu/h	27.2	30.7	38.2	47.8
	Power input	W	130	130	180	180
Heating ²	Capacity	kW	9.0	10.0	12.5	15.0
		kBtu/h	30.7	34.1	42.7	51.2
	Power input	W	130	130	180	180
Air flow rate ³	m ³ /h	1280/1245/1210/1170/1130/1085/1050		1890/1830/1765/1700/1660/1620/1580		
Sound pressure level ⁴	dB(A)	45/44/43/43/42/41/40		47/46/45/45/44/43/42		
Unit	Net dimensions ⁵ (WxHxD)	mm 1280×660×203		1670×680×244		
	Packed dimensions (WxHxD)	mm 1379×744×296		1915×760×330		
	Net/Gross weight	kg 35/41		48/58		
Pipe connections	Liquid/Gas pipe	mm Φ9.53/Φ15.9				
	Drain pipe	mm OD Φ16				

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3).
Floor standing: Sound pressure level is measured 1m in front and 1m above the floor in a semi-anechoic chamber.
Ceiling mounted: Sound pressure level is measured 1m in front and 1m below the unit in a semi-anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Floor Standing Unit (Concealed)

- Designed to be concealed in walls with only the suction and discharge grills visible



Optional wireless remote controller



RM12D RM05B

Optional wired controller



WDC-86E/KD WDC-120G/WK

Model		MI2-22F3DHN1	MI2-28F3DHN1	
Power supply		1 phase, 220-240V, 50/60Hz		
Cooling ¹	Capacity	kW	2.2	2.8
		kBtu/h	7.5	9.6
Heating ²	Power input	W	40	45
		kW	2.4	3.2
	Capacity	kBtu/h	8.2	10.9
Air flow rate ³	Power input	W	40	45
		kW	2.4	3.2
	Air flow rate ³	m ³ /h	530/504/478/456/439/418/400	
Sound pressure level ⁴	dB(A)	36/35/34/33/31/30/29		36/35/34/33/31/30/29
Unit	Net dimensions ⁵ (WxHxD)	mm 840×545×212		
	Packed dimensions (WxHxD)	mm 925×639×305		
	Net/Gross weight	kg 21/25.5		
Pipe connections	Liquid/Gas pipe	mm Φ6.35/Φ12.7		
	Drain pipe	mm Φ16		

Model		MI2-36F3DHN1	MI2-45F3DHN1	
Power supply		1 phase, 220-240V, 50/60Hz		
Cooling ¹	Capacity	kW	3.6	4.5
		kBtu/h	12.3	15.4
Heating ²	Power input	W	55	60
		kW	4.0	5.0
	Capacity	kBtu/h	13.6	17.1
Air flow rate ³	Power input	W	55	60
		kW	4.0	5.0
	Air flow rate ³	m ³ /h	624/591/557/522/473/420/375	
Sound pressure level ⁴	dB(A)	37/36/35/34/32/31/30		37/36/35/34/32/31/30
Unit	Net dimensions ⁵ (WxHxD)	mm 1036×639×305		
	Packed dimensions (WxHxD)	mm 1125×639×305		
	Net/Gross weight	kg 25.5/30.5		
Pipe connections	Liquid/Gas pipe	mm Φ6.35/Φ12.7		
	Drain pipe	mm Φ16		

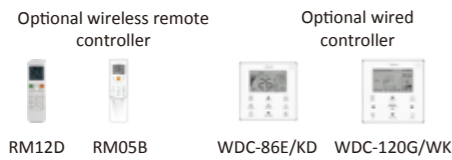
Model		MI2-56F3DHN1	MI2-71F3DHN1	MI2-80F3DHN1	
Power supply		1 phase, 220-240V, 50/60Hz			
Cooling ¹	Capacity	kW	5.6	7.1	8.0
		kBtu/h	19.1	24.2	27.3
Heating ²	Power input	W	88	110	130
		kW	6.3	8.0	9.0
	Capacity	kBtu/h	21.5	27.3	30.7
Air flow rate ³	Power input	W	88	110	130
		kW	6.3	8.0	9.0
	Air flow rate ³	m ³ /h	1150/1094/1028/970/925/886/830	1380/1290/1205/1100/1033/955/870	1380/1290/1205/1100/1033/955/870
Sound pressure level ⁴	dB(A)	41/39/37/35/33/32/31		44/42/40/39/37/35/33	44/42/40/39/37/35/33
Unit	Net dimensions ⁵ (WxHxD)	mm 1340×545×212			
	Packed dimensions (WxHxD)	mm 1425×639×305			
	Net/Gross weight	kg 30.5/35.5			
Pipe connections	Liquid/Gas pipe	mm Φ9.53/Φ15.9			
	Drain pipe	mm Φ16			

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Each model's 7 airflow rate options are listed in order, from highest to lowest.
4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3).
Sound pressure level is measured 1m in front and 1m above the floor in a semi-anechoic chamber.
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.
All specifications are measured at 10Pa external static pressure.

Floor Standing Unit (Exposed)

- The F4 (front air intake) and F5 (underside air intake) offer a choice of air intake options



Model		MI2-22F4DHN1 MI2-22F5DHN1	MI2-28F4DHN1 MI2-28F5DHN1
Power supply		1 phase, 220-240V, 50/60Hz	
Cooling ¹	Capacity	kW 2.2	2.8
	Power input	kBtu/h 7.5	9.6
Heating ²	Capacity	kW 2.4	3.2
	Power input	kBtu/h 8.2	10.9
Air flow rate ³		m ³ /h 530/504/478/456/439/418/400	
Sound pressure level ⁴		dB(A) 36/35/34/33/31/30/29	
Unit	Net dimensions ⁵ (WxHxD)	mm (F4)	1000×596×225
		mm (F5)	1000×677×220
	Packed dimensions (WxHxD)	mm (F4)	1089×683×312
		mm (F5)	1182×683×312
Net/Gross weight	kg (F4)	28/33	
	kg (F5)	28/35	
Pipe connections	Liquid/Gas pipe	mm Φ6.35/Φ12.7	
	Drain pipe	mm Φ16	

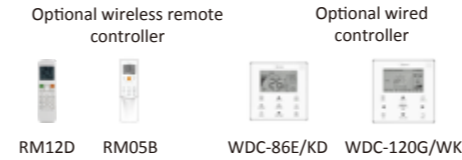
Model		MI2-36F4DHN1 MI2-36F5DHN1	MI2-45F4DHN1 MI2-45F5DHN1
Power supply		1 phase, 220-240V, 50/60Hz	
Cooling ¹	Capacity	kW 3.6	4.5
	Power input	kBtu/h 12.3	15.4
Heating ²	Capacity	kW 4.0	5.0
	Power input	kBtu/h 13.6	17.1
Air flow rate ³		m ³ /h 624/591/557/522/473/420/375	
Sound pressure level ⁴		dB(A) 37/36/35/34/32/31/30	
Unit	Net dimensions ⁵ (WxHxD)	mm (F4)	1200×596×225
		mm (F5)	1200×677×220
	Packed dimensions (WxHxD)	mm (F4)	1289×683×312
		mm (F5)	1382×683×312
Net/Gross weight	kg (F4)	33/38.6	
	kg (F5)	33/40.7	
Pipe connections	Liquid/Gas pipe	mm Φ6.35/Φ12.7	
	Drain pipe	mm Φ16	

Model		MI2-56F4DHN1 MI2-56F5DHN1	MI2-71F4DHN1 MI2-71F5DHN1	MI2-80F4DHN1 MI2-80F5DHN1
Power supply		1 phase, 220-240V, 50/60Hz		
Cooling ¹	Capacity	kW 5.6	7.1	8.0
	Power input	kBtu/h 19.1	24.2	27.3
Heating ²	Capacity	kW 6.3	8.0	9.0
	Power input	kBtu/h 21.5	27.3	30.7
Air flow rate ³		m ³ /h 1150/1094/1028/970/925/886/830		
Sound pressure level ⁴		dB(A) 41/39/37/35/33/32/31		
Unit	Net dimensions ⁵ (WxHxD)	mm (F4)	1500×596×225	
		mm (F5)	1500×677×220	
	Packed dimensions (WxHxD)	mm (F4)	1589×683×312	
		mm (F5)	1682×683×312	
Net/Gross weight	kg (F4)	40/46		
	kg (F5)	40.4/48.6		
Pipe connections	Liquid/Gas pipe	mm Φ9.53/Φ15.9		
	Drain pipe	mm Φ16		

- Notes:
- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
 - Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
 - Each model's 7 airflow rate options are listed in order, from highest to lowest.
 - Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1m in front and 1m above the floor in a semi-anechoic chamber.
 - Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Console

- Combination of four air inlets and two air outlets ensures that cooling and heating are distributed in all directions.



Model		MI2-22ZDHN1	MI2-28ZDHN1	MI2-36ZDHN1	MI2-45ZDHN1	
Power supply		1 phase, 220-240V, 50/60Hz				
Cooling ¹	Capacity	kW	2.2	2.8	3.6	4.5
		kBtu/h	7.5	9.6	12.3	15.4
Heating ²	Capacity	kW	2.6	3.2	4.0	5.0
		kBtu/h	8.9	10.9	13.4	17.1
Air flow rate ³	Power input	W	20	25	25	35
		m ³ /h	430/401/374/345/302/268/229	510/482/456/430/355/286/229	660/614/561/512/478/436/400	
Sound pressure level ⁴	Power input	W	20	25	25	35
		dB(A)	38/36/34/32/28/27/26	39/37/35/33/31/29/27	42/41/40/39/37/36/36	
Unit	Net dimensions ⁵ (WxHxD)	mm	700×600×210			
	Packed dimensions (WxHxD)	mm	810×710×305			
	Net/Gross weight	kg	14/19	15/20		
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7			
	Drain pipe	mm	OD Φ16			

- Notes:
- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
 - Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
 - Each model's 7 airflow rate options are listed in order, from highest to lowest.
 - Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1m in front and 1m above the floor in a semi-anechoic chamber.
 - Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

CONTROL SOLUTIONS



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Controllers

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Network
Control System



















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BMS Gateways

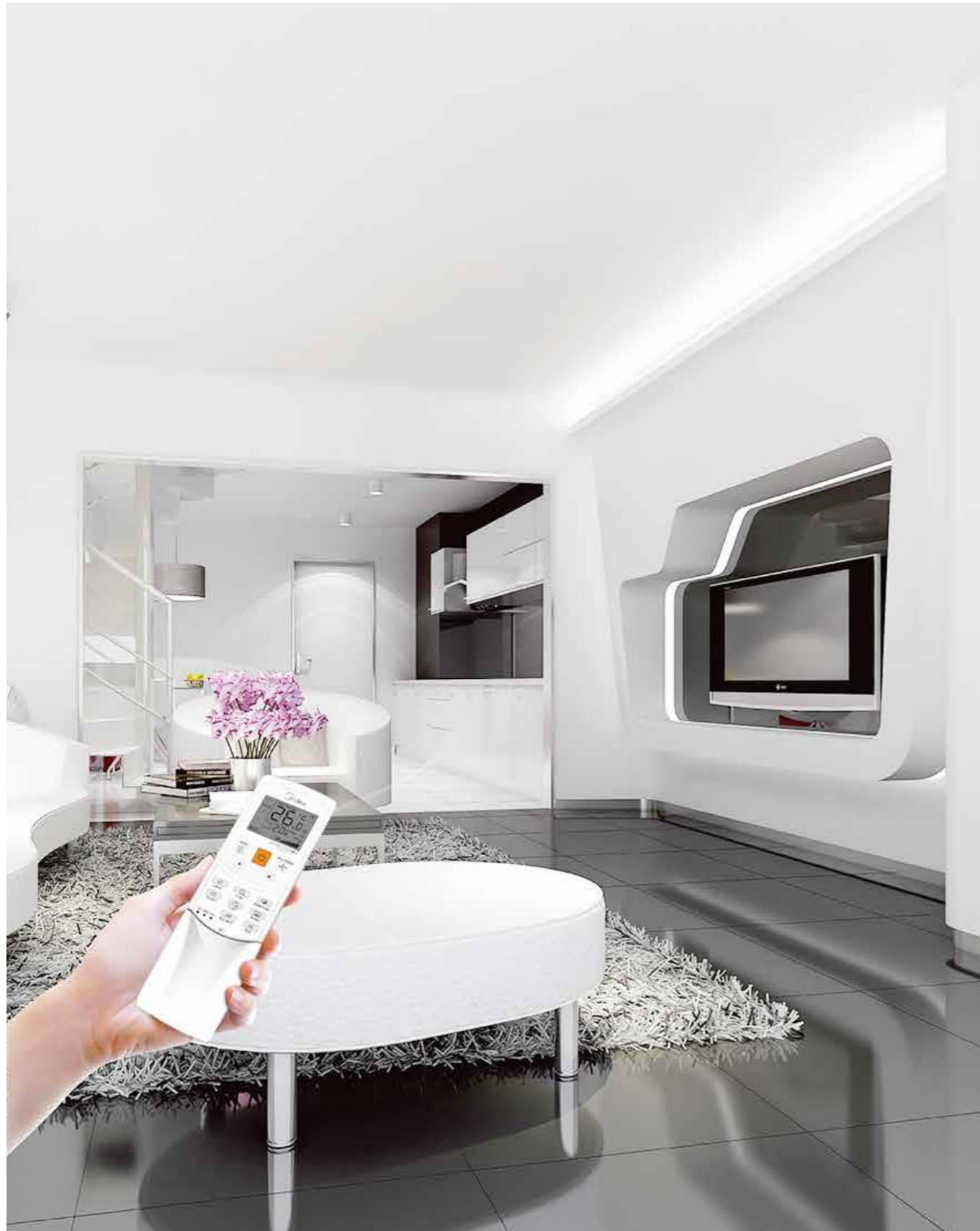
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Accessories



CONTROLLER LINEUP

Wireless Remote Controllers	Wired Controllers	Centralized Controllers		Network Control System	BMS Gateways	Accessories
<p>RM05B</p> 	<p>WDC-86E/K</p> 	<p>CCM-180A/WS</p> 		<p>IMMP-M</p> 	<p>GW-BAC</p> 	<p>Hotel Key Card Interface Module</p>  <p>MD-NIM05/E</p>  <p>MD-NIM05B/E</p>
<p>RM12D</p> 	<p>WDC-86E/KD</p> 	<p>CCM-270A/WS</p> 		<p>+</p> <p>IMMP-S</p> 	<p>GW-LON</p> 	<p>Infrared Sensor Controller</p>  <p>MD-NIM09</p>
	<p>WDC-120G/WK</p> 			<p>CCM-270A/WS</p> 	<p>GW-MOD</p> 	<p>Diagnosis software</p>  <p>MCAC-DIAG-B</p>
				<p>+</p> <p>IMMP-S</p> 		

Wireless Remote Controllers

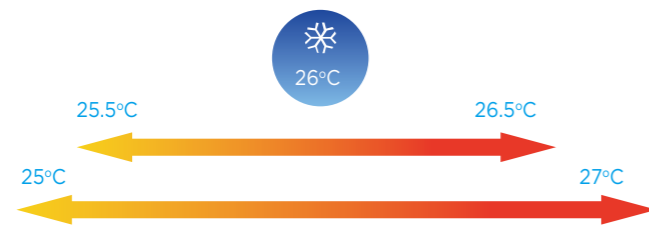


Features

Model	 RM05B	 RM12D
On / Off	●	●
Mode selection	●	●
Temperature setting	● (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	●	●
Night silent mode	●	●
Display shut-off	●	●
Daily timer	●	●
Keyboard lock	●	●
Background light	●	●
Dimensions (H×W×D) (mm)	150×65×20	170×48×20
Batteries	1.5V (LR03/AAA) × 2	

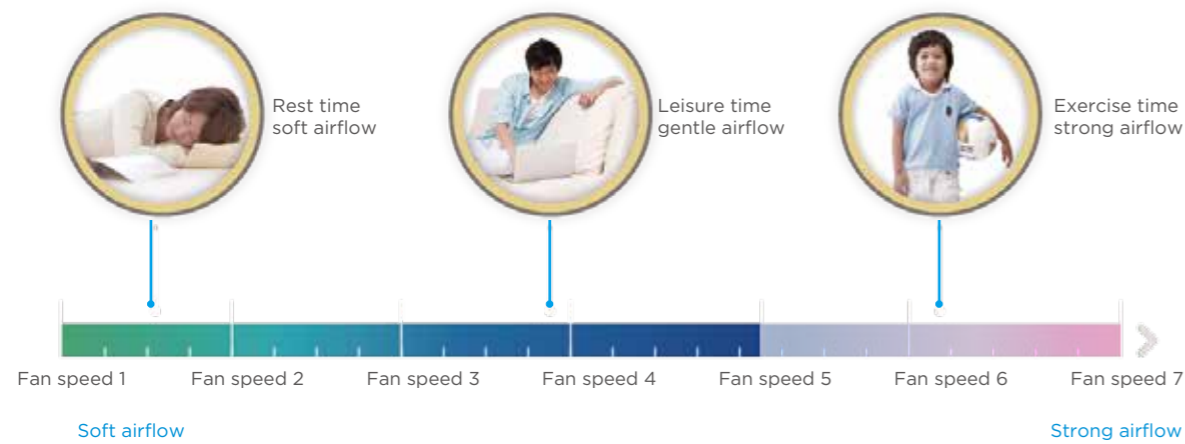
Temperature Setting

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



7-Speed Fan Control

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



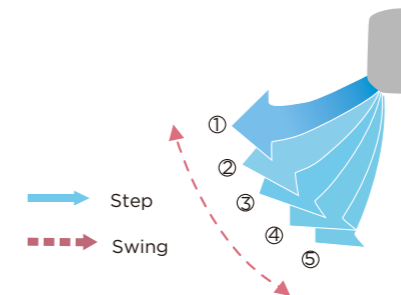
Display Shut-off

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



5-step Swing Louver

The air is comfortably spread upwards and downwards thanks to the 5-step swing louver that can be programmed via the controller.



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.



Eco Mode

Eco mode saves energy whilst retaining a comfortable indoor environment.



Wired Controllers



Features

Model	 WDC-86E/KD	 WDC-86E/K	 WDC-120G/WK
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	●	—	●
7-speed fan control	●	●	●
Auto swing	●	●	●
5-step swing louver	●	●	●
Address setting	●	●	●
Follow me	●	●	●
Eco 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	●	●	●
Night silent mode	●	●	●
Remote signal receiver	●	●	●
Clean filter reminder	●	●	●
Extension function	—	—	●
Daylight saving time	—	—	●
Clock display	—	—	●
Dot matrix display	—	—	●
Error check function	●	—	●
System parameter querying	●	—	●
System setting control	●	—	●
Dimensions (WxHxD) (mm)	86x86x18	86x86x18	120x120x20
Power supply	18 DC	5V DC	18 DC

Group Control

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



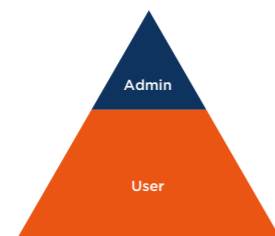
Main or Secondary Controller Setting

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



2 Permission Levels

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



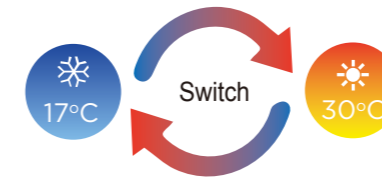
Extension Function

The extension function is specifically designed for users working overtime. Pressing the delay button postpones system shutdown by 1 or 2 hours.



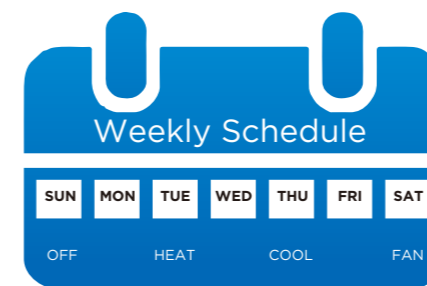
Dual Temperature Set Points

With dual temperature set point control, the set temperature changes automatically when the operating mode is changed.



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.



Centralized Controllers



Features

Model	 CCM-180A/WS	 CCM-270A/WS
Max. number of indoor units	64	384
Max. number of outdoor units	32	192
Max. number of refrigerant systems	8	48
Touch screen	● (6.2-inch)	● (10.1-inch)
On / Off	●	●
Mode selection	●	●
Temperature setting	● (0.5°C or 1°C steps)	● (0.5°C steps)
Dual temperature set points	●	●
7-speed fan control	●	●
Auto swing	●	●
5-step swing louver	●	●
Room temperature display	—	●
Outdoor unit Eco mode setting	●	●
Holiday setting	●	●
°C/°F display	●	●
Schedule management	●	●
Clock display	●	●
2 permission levels	●	●
Extension function	●	—
Unit model recognition	●	●
Electricity charge distribution	—	●
Visual schematic	—	●
Energy management	●	●
Group management	●	●
Error check function	●	●
System parameter querying	●	—
USB output		
Report display	Error report	Error report, operation record and electricity consumption report
Operation log	—	●
LAN access	—	●
languages supported	English, French, Spanish	English, French, Spanish
Dimensions (W×H×D) (mm)	182x123x34	270×183×27
Power supply	12V DC	24V AC

Touch Screen

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



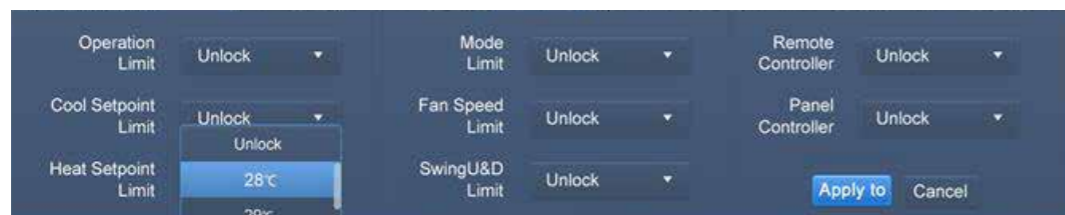
Electricity Charge Distribution

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.



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.



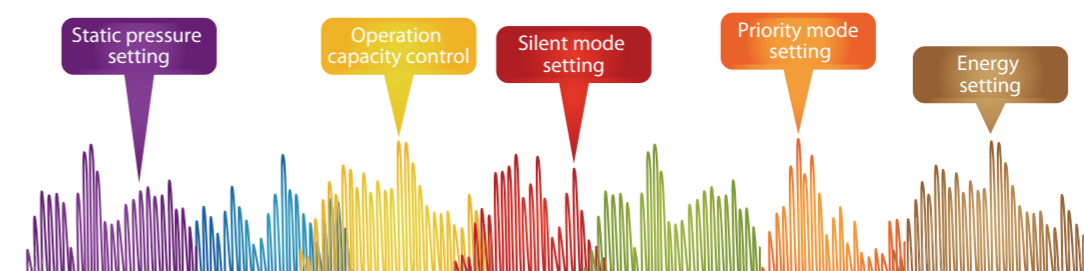
Group Management

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



Outdoor Unit Configuration

Outdoor unit configuration and settings can be monitored and controlled without having to go outdoors.



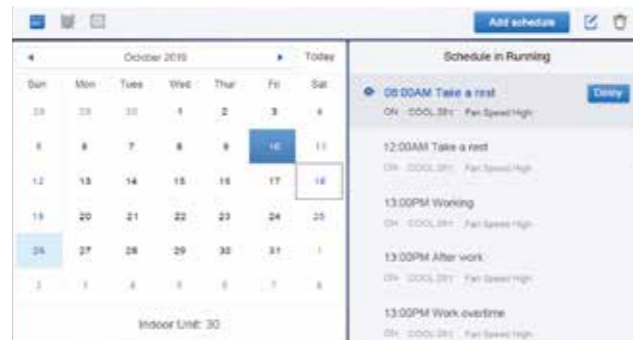
Unit Model Recognition

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



Schedule Management

Daily, weekly or annual schedules can be used to set unit settings such as on/off, operating mode, set temperature, fan speed and swing.



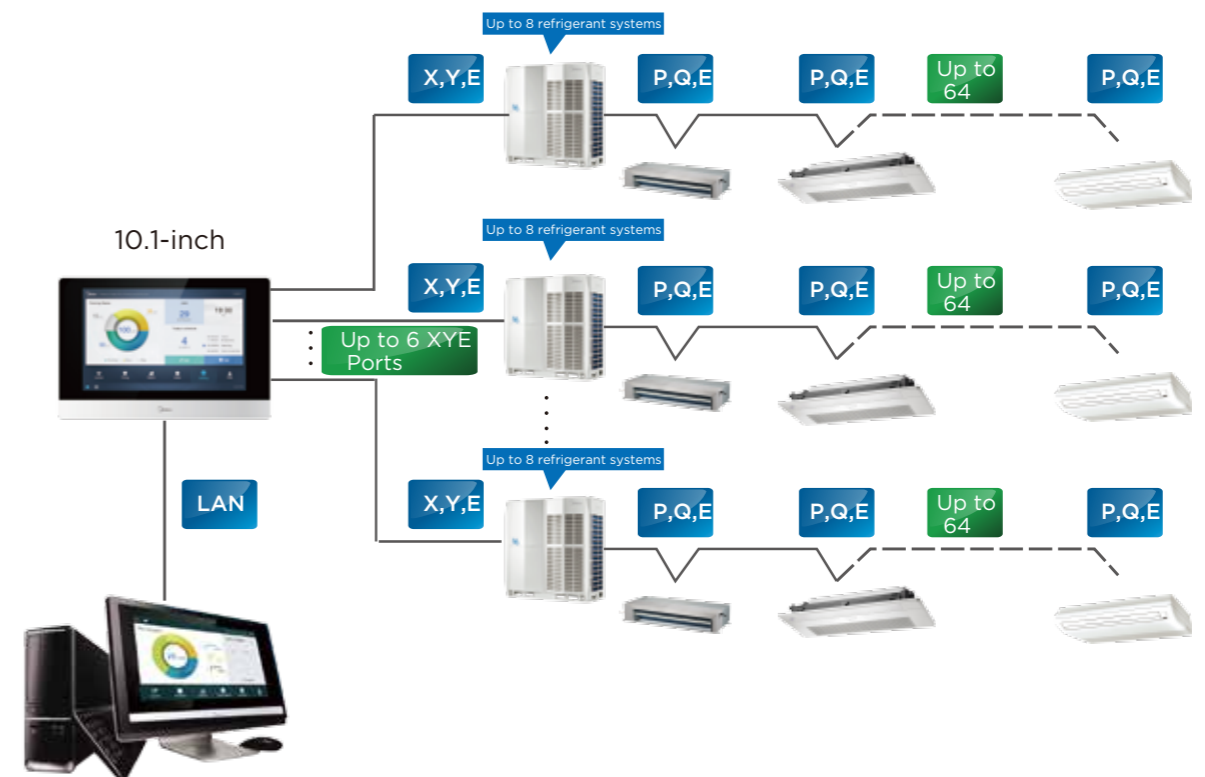
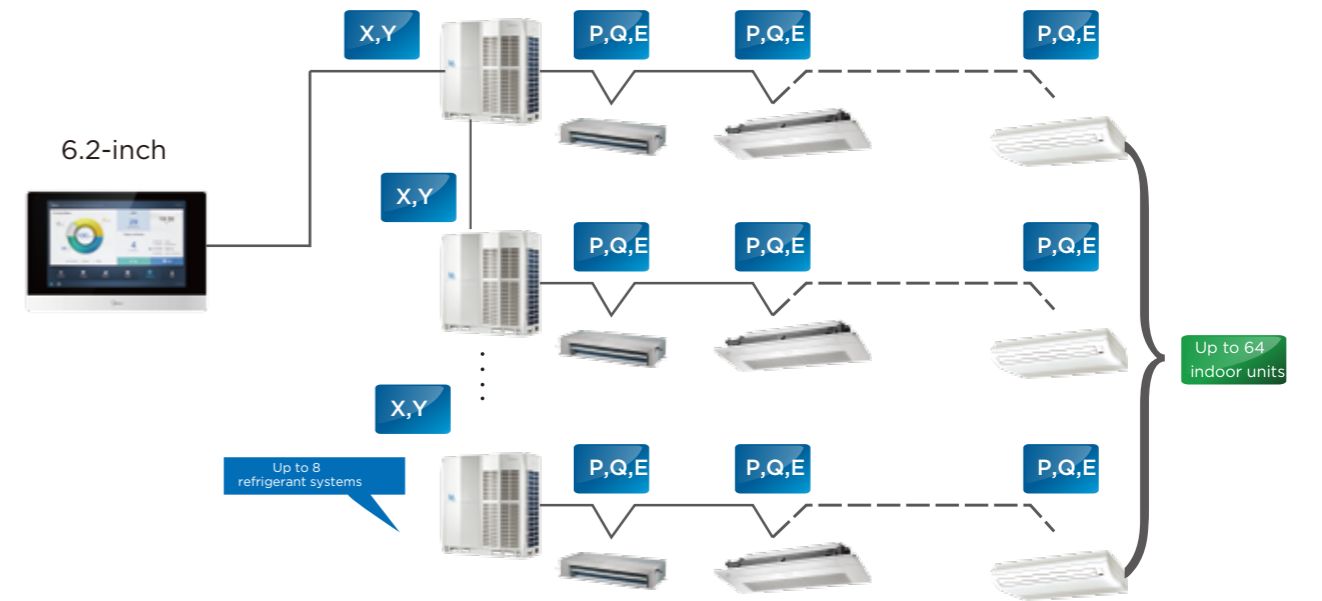
LAN Access

A desktop or laptop PC can be used for browser-based access via a LAN connection.



Wiring Flexibility



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



Network Control System



Features

Software model	IMMP-S	
Hardware model	 IMMP-M	 CCM-270A/WS
Max. number per IMM system	10	10
Max. number of indoor units	2560	3840
Max. number of outdoor units	1280	1920
Max. number of refrigerant systems	320	480
Temperature setting	● (0.5°C steps)	● (0.5°C steps)
Dual temperature set points	●	●
7-speed fan control	●	●
Auto swing	●	●
5-step swing louver	●	●
Outdoor unit Eco mode setting	●	●
Holiday setting	●	●
Schedule management	●	●
Clock display	●	●
2 permission levels	●	●
Unit model recognition	●	●
Electricity charge distribution	●	●
Visual schematic	●	●
Energy management	●	●
Group management	●	●
Error check function	●	●
System parameter querying	●	●
Report output	●	●
Operation log	●	●
LAN access	●	●
Data backup	●	●
Remote VPN access	●	●
Languages supported	English, French, Spanish	English, French, Spanish
Dimensions (W×H×D) (mm)	251×319×66	270×183×27
Power supply	1 phase, 100-240V, 50/60Hz	24V AC

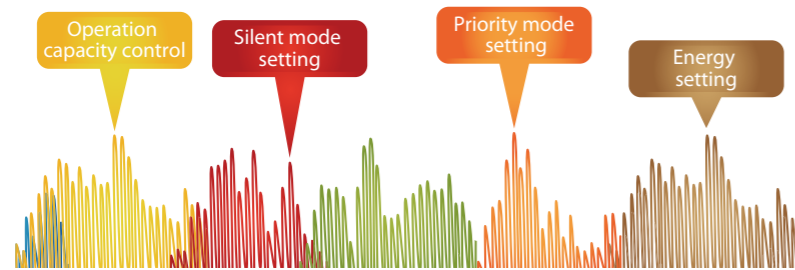
User-friendly Interface

Simple, practical user interface makes for a user-friendly experience even for first-time users.



Outdoor Unit Configuration

Outdoor unit configuration and settings can be monitored and controlled without having to go outdoors.



Electricity Charge Distribution

The IMMPRO uses 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.



Public and Idle Devices

Marking a unit as a public device or idle device ensures the electricity charge distribution is more accurate and reasonable.



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.



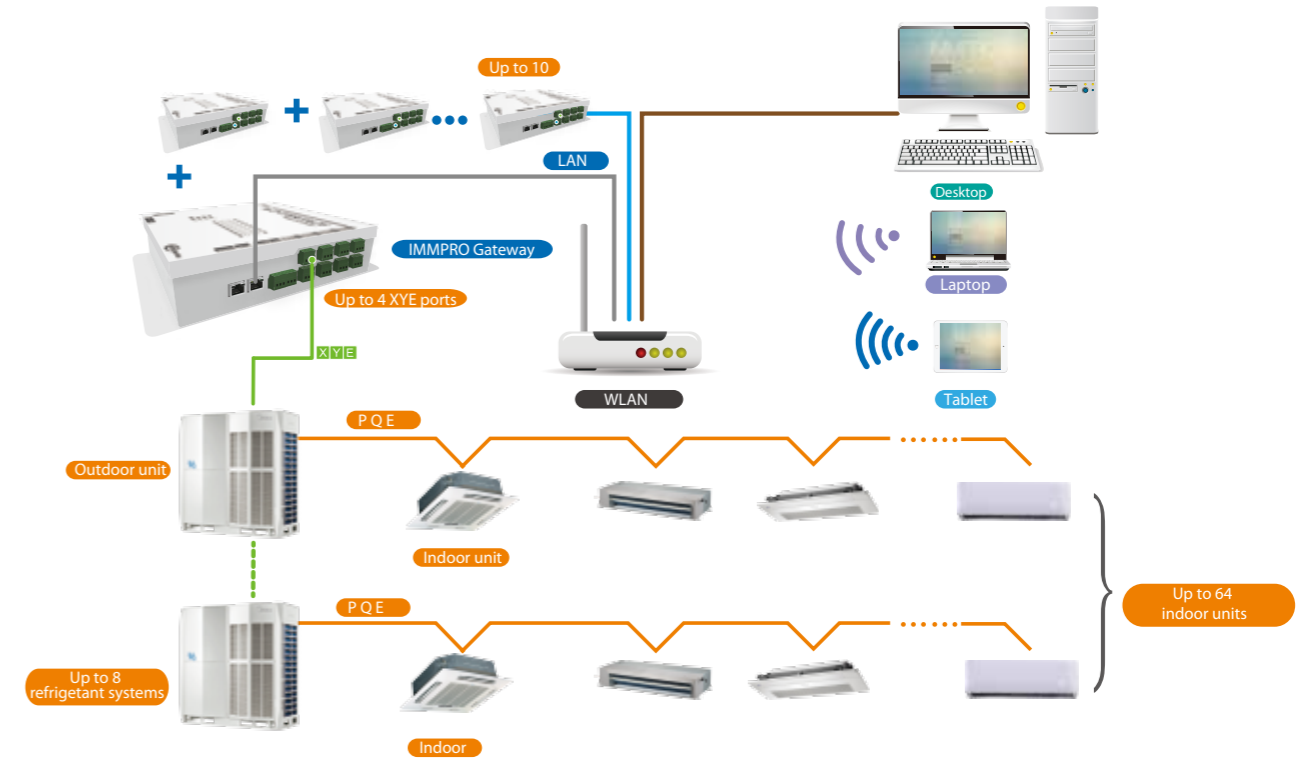
Schedule Management

Daily, weekly or annual schedules can be used to set unit settings such as on/off, operating mode, set temperature, fan speed and swing.



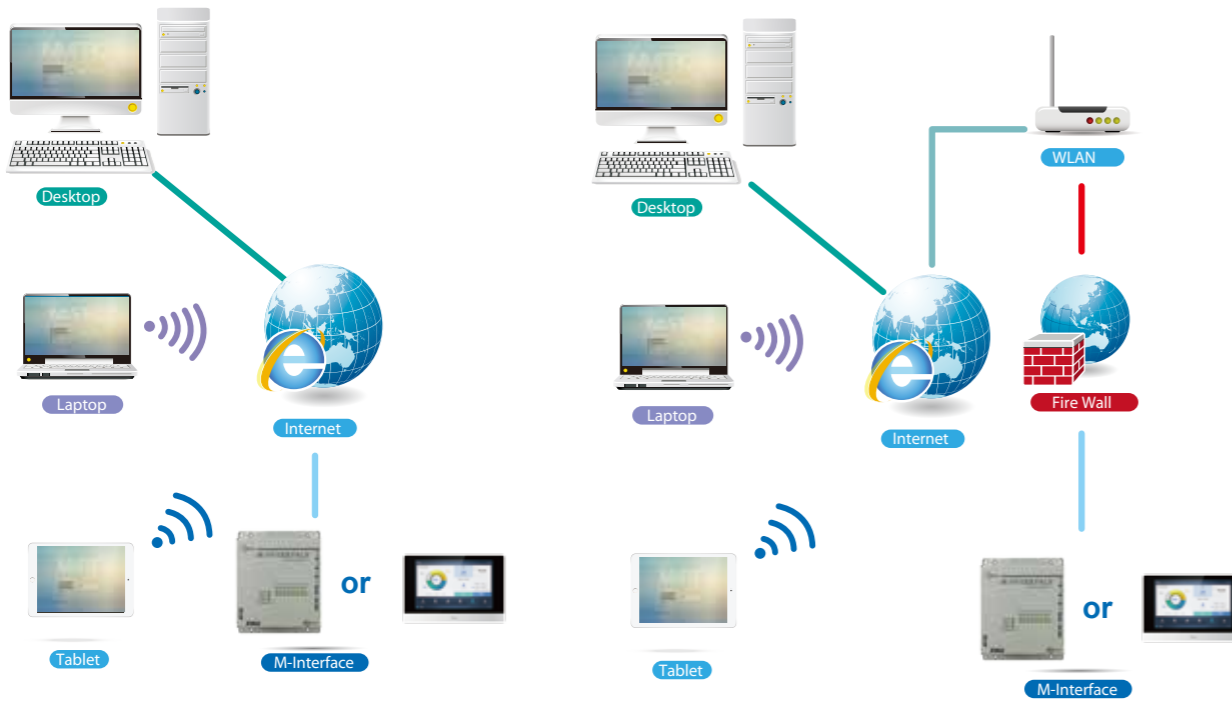
Xpress Installation

With the Xpress Installation wizard, IMMPRO can be installed quickly and easily without requiring support from a technical support engineer.



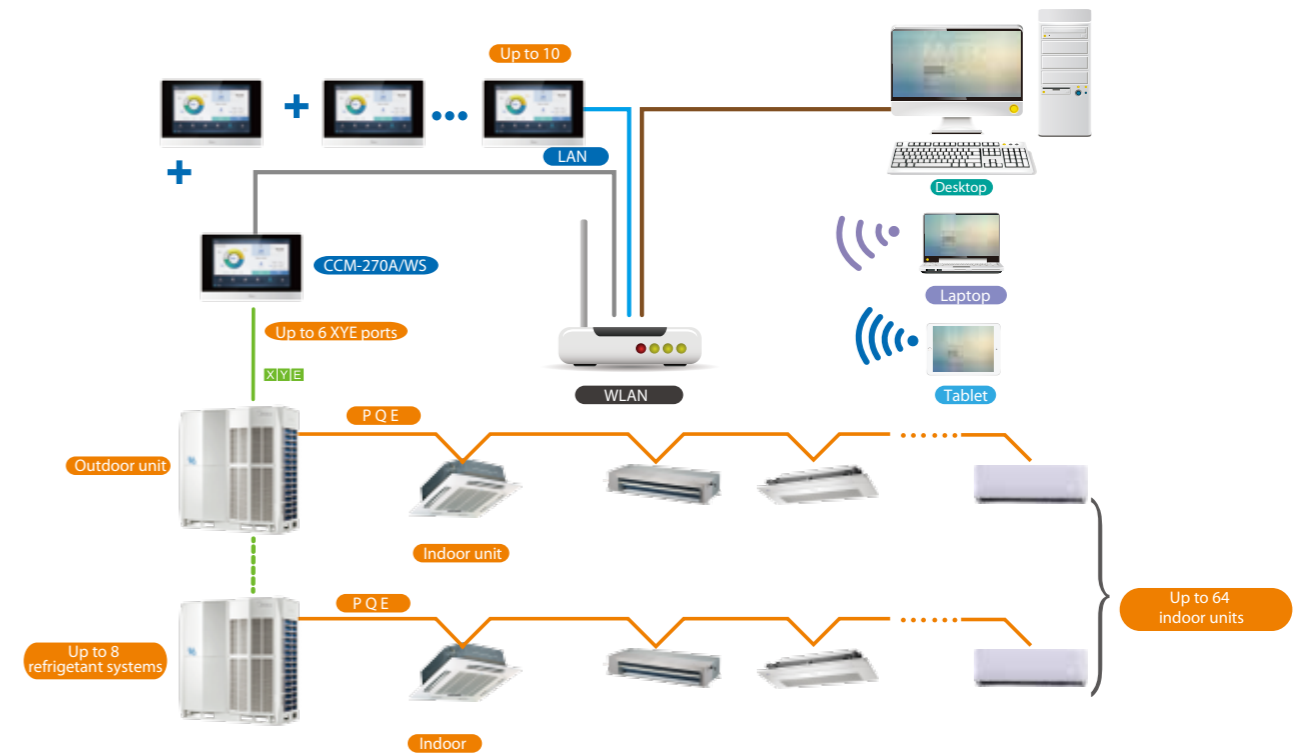
IMMMP-M

Network Flexibility



LAN access

Remote VPN access



CCM-270A/WS

BMS Gateway

Monitoring and control of Midea's VRF air conditioners can be integrated into building management systems, enabling air conditioning to be monitored alongside lighting, power, fire, access and security systems. Midea's gateway devices provide full compatibility with the leading BMS protocols: BACnet, LonWorks and Modbus.





GW-BAC

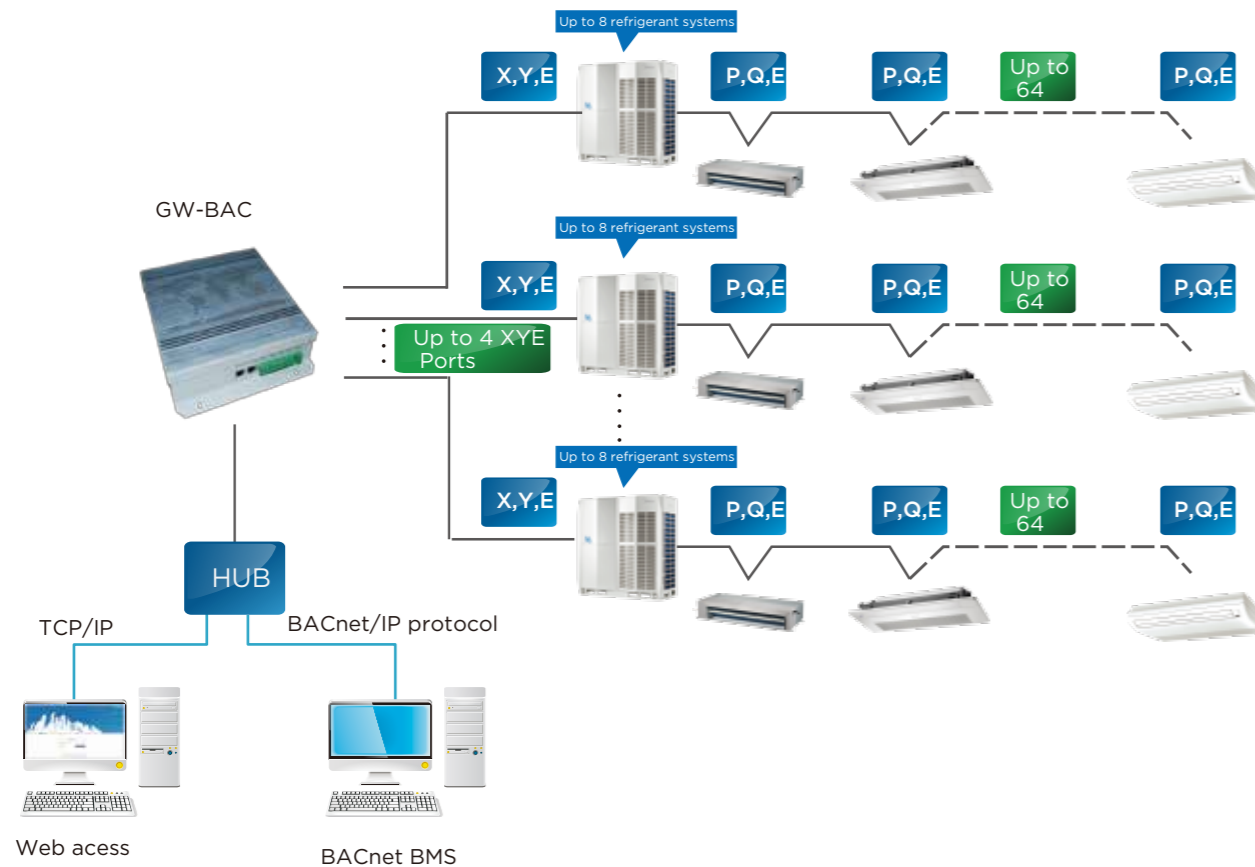
BACnet® Gateway

Full Integration

The GW-BAC Gateway allows Midea VRF systems to be monitored and controlled alongside other building management technology that use the BACnet protocol such as access control, fire detection and lighting systems.

Network Flexibility

The gateway can be connected to master outdoor units' X,Y,E ports directly.



Features

Model	GW-BAC		
Max. number of indoor units		256	
Max. number of outdoor units		128	
Max. number of refrigerant systems		32	
Control	On / Off	●	
	Mode selection	●	
	Temperature setting	●	
	Fan speed	●	
	Energy management	●	
Indoor unit monitoring	Room temperature display	●	
	Error status	●	
	Error alarms	●	
Outdoor unit monitoring	Operating mode	●	
	Outdoor ambient temperature	●	
	Fan speed	●	
	Compressor operating frequency	●	
	Discharge temperature	●	
	System pressure	●	
	Error status	●	
	Error alarms	●	
	LAN access		●
	BTL certification		●
Compatibility	Siemens	APOGEE	
	Trane	TRACER	
	Honeywell	ALERTON	
	Schneider	Andover Continuum	
	Johnson Controls	METASYS	
Dimensions (HxWxD)(mm)		319×251×61	
Power supply		1 phase, 100-240V, 50/60Hz	



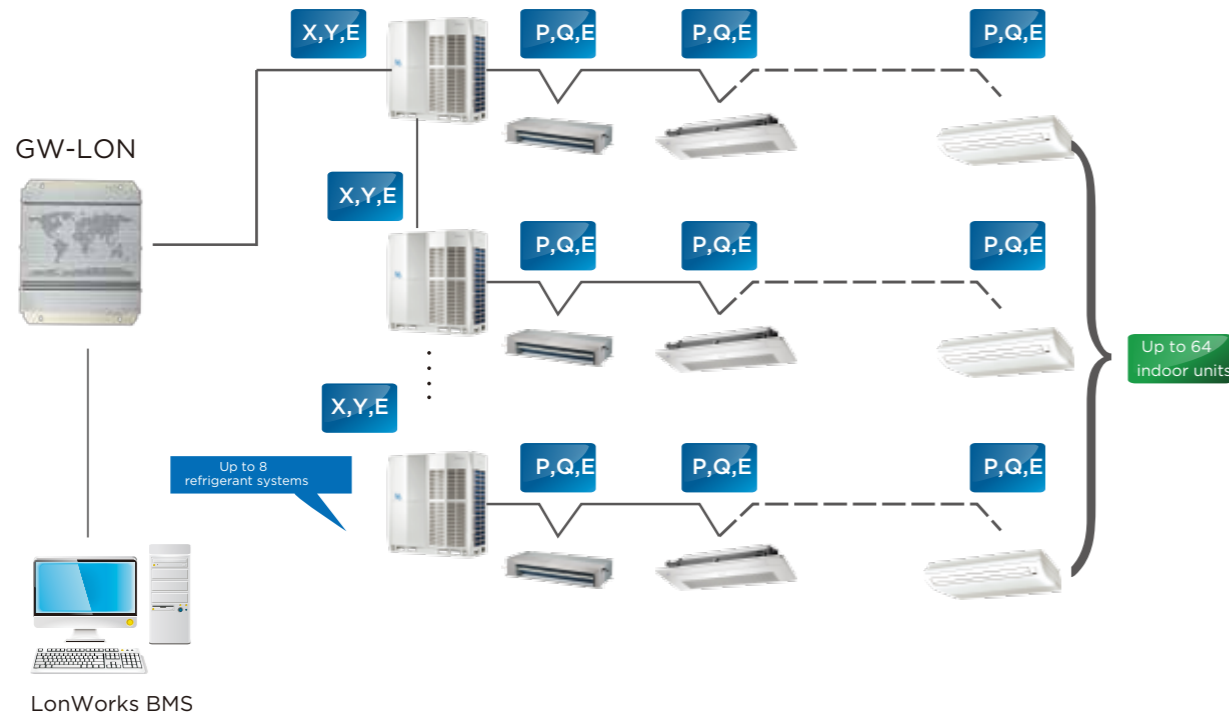
GW-LON

LonWorks® Gateway

Full Integration

The GW-LON Gateway allows Midea VRF systems to be monitored and controlled alongside other building management technology on the LonWorks platform such as security, fire safety and lighting systems.

Network Flexibility



Features

Model	GW-LON	
Max. number of indoor units		64
Max. number of outdoor units		32
Max. number of refrigerant systems		8
Control	Mode selection	●
	Temperature setting	●
	Fan speed	●
	Group shut down	●
	On / Off	●
Indoor unit monitoring	Operating mode	●
	Set temperature	●
	Fan speed	●
	Online status	●
	Operating status	●
	Room temperature	●
	Error status	●
Outdoor unit monitoring	Error status	●
Dimensions (HxWxD) (mm)	319×251×61	
Power supply	1 phase, 100-240V, 50/60Hz	



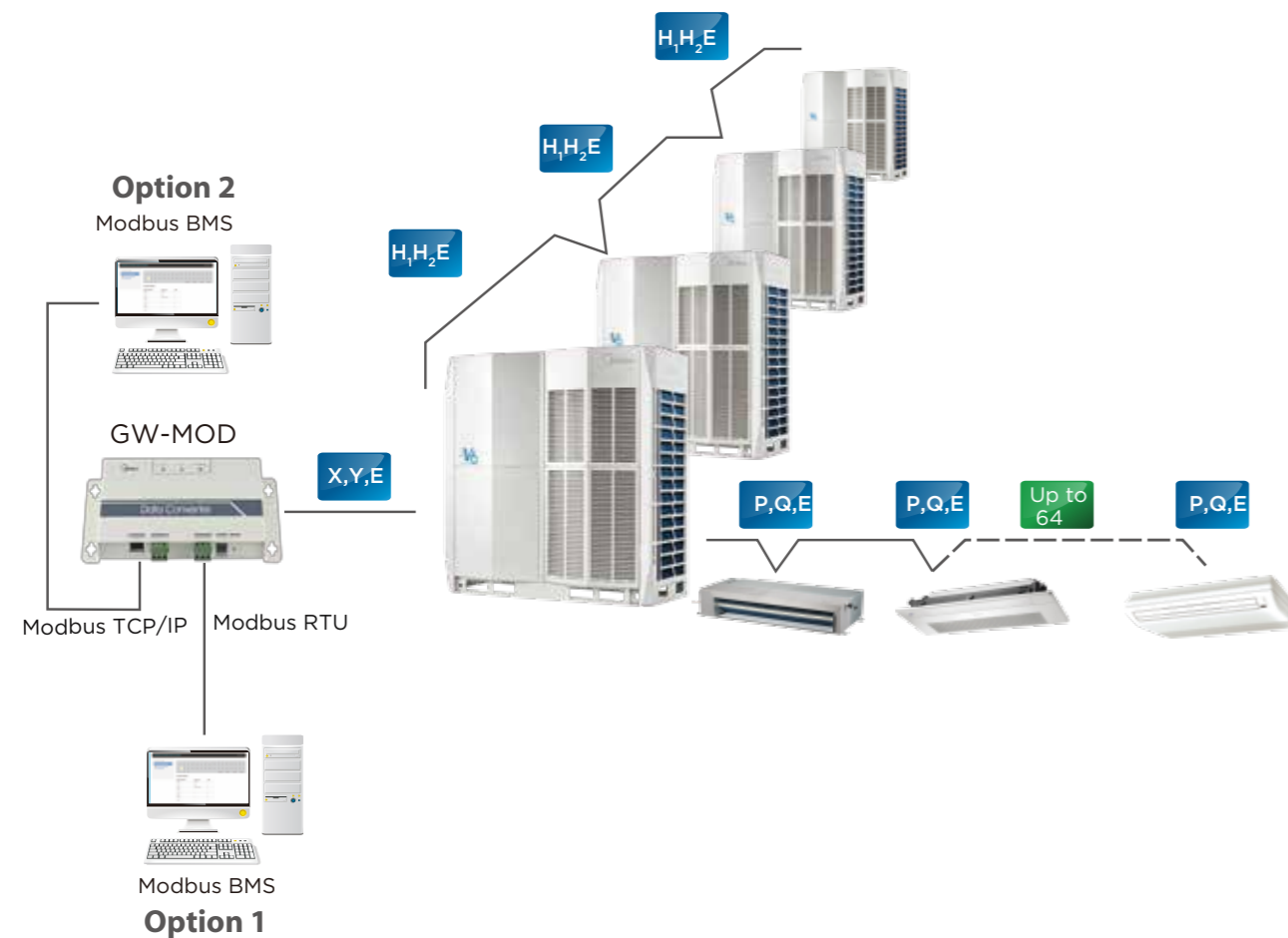
GW-MOD

Modbus® Gateway

Full Integration

The GW-MOD Gateway enables seamless connection of Midea VRF systems with building management systems built on the Modbus communication protocol.

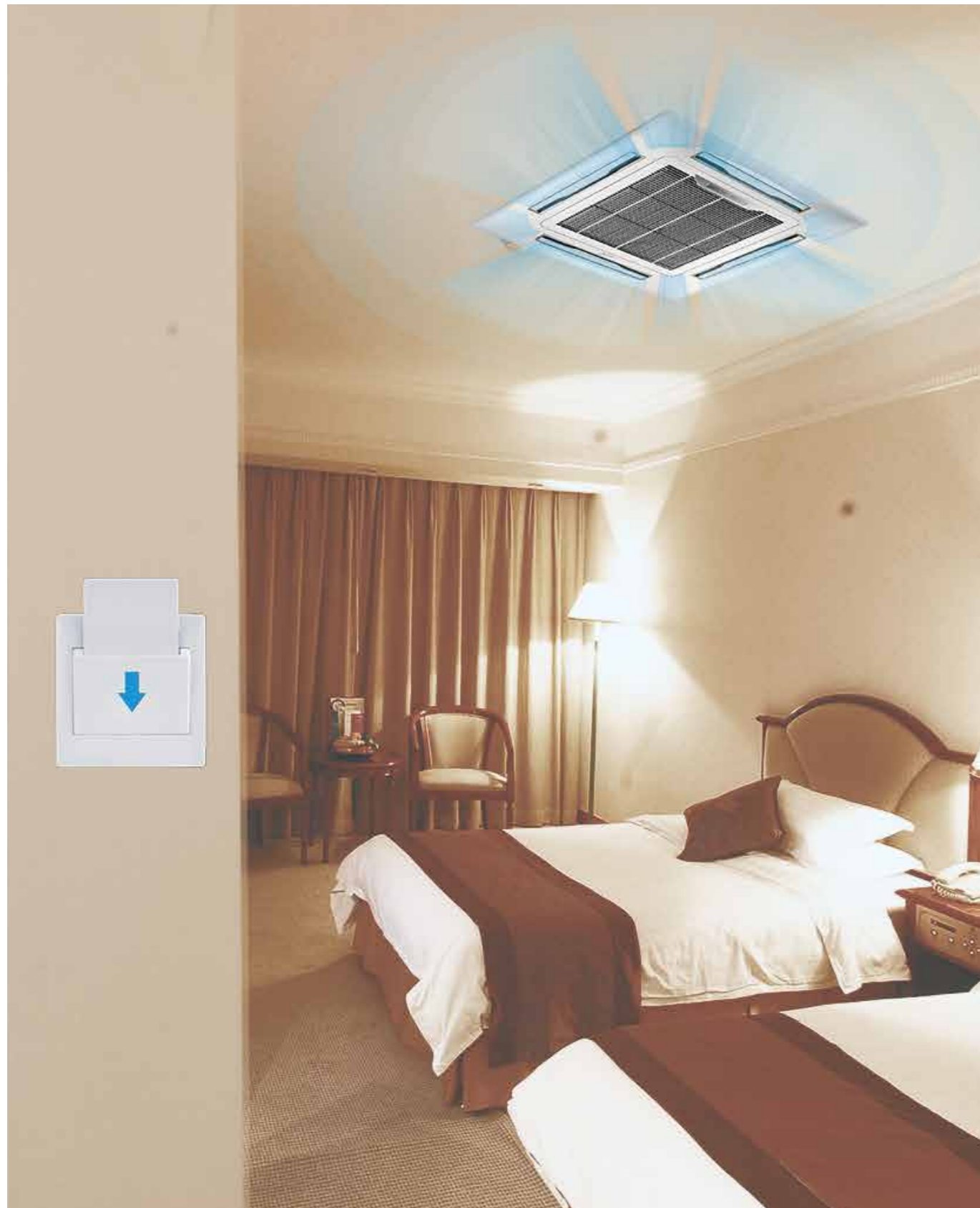
Network Flexibility



Features

Model	GW-MOD	
Max. number of indoor units		64
Max. number of outdoor units		4
Max. number of refrigerant systems		1
Control	On / Off	●
	Mode selection	●
	Temperature setting	●
	Fan speed	●
	Group on/off	●
Indoor unit monitoring	Online status	●
	Room temperature	●
	Error status	●
	Operating mode	●
Outdoor unit monitoring	Operating mode	●
	Lock status	●
	Fan speed	●
	Set temperature	●
	Outdoor ambient temperature	●
	Error status	●
LAN access		●
Dimensions (HxWxD)(mm)		319×251×61
Power supply		1 phase, 100-240V, 50/60Hz

Hotel Key Card Interface Modules



Full Integration

The Hotel Key Card Interface Modules enable power supply to indoor units to be integrated with hotel key card power supply management systems, which are designed to save energy by only running appliances whilst guests are present in their room.

Features

Model	MD-NIM05/E	MD-NIM05B/E
Appearance		
Network flexibility		
Auto restart	●	●
Compatibility	Remote and wired controller	Remote and wired controller
Dimensions (H×W×D) (mm)	15.5×86×72.8	87×150×70
Power supply	5V DC (Supplied by indoor unit)	1 phase, 100-240V, 50/60Hz

Infrared Sensor Controller



Full Integration

Using infrared sensors to detect movement, the MD-NIM09 Infrared Sensor Controller automatically turns indoor units on or off upon sensing that the room is occupied or unoccupied. Suitable for hotels, offices, conference rooms and residences, the Infrared Sensor Controller ensures climate control whilst minimizing energy consumption.

Features

Model	MD-NIM09
Appearance	
Network flexibility	
Dimensions (H×W×D)(mm)	Sensor 46×30×25.6, Control box 86×72.8×15.5
Power supply	5V DC (Supplied by indoor unit)

Diagnosis Software



Monitor and Diagnose

Midea's VRF Diagnosis Software tool is used to monitor VRF systems and diagnose system errors. System settings and operating parameters can be accessed easily and data logs can be reviewed for fault prevention purposes.

Features

Model	MCAC-DIAG-B	
Max. number of indoor units		64
Max. number of outdoor units		4
Max. number of refrigerant systems		1
Control	Mode selection	●
	Temperature setting	●
	Fan speed	●
Outdoor unit monitoring	Operating mode	●
	Capacity	●
	Compressor operating frequency	●
	Operating current	●
	Error status	●
	Temperatures	T3,T4,Tp (See note 1)
	Valve statuses	SV2, SV4, SV5, SV6, ST1 (See note 2)
	EXV position	●
Indoor unit monitoring	Operating mode	●
	Capacity	●
	Fan speed	●
	Address	●
	Temperatures	T1, T2, T2B, TS (See note 3)
	EXV position	●
Error codes		●
Troubleshooting		●
Data logs		●
Diagrams	System schematic, refrigerant flow diagram, parameter chart	
Languges supported	English, French, Spanish	

Notes:

1. Heat exchanger temperature, outdoor ambient temperature, discharge temperature.

2. Discharge temperature control valve, oil return valve, defrosting valve, EXV bypass valve, four-way valve.

3. Indoor ambient temperature, indoor heat exchanger mid-point temperature, indoor heat exchanger outlet temperature, set temperature.

Expert Diagnosis

Midea's VRF Diagnosis Software is specially designed to allow after-sales engineers, to understand the operating status of the system at a glance.



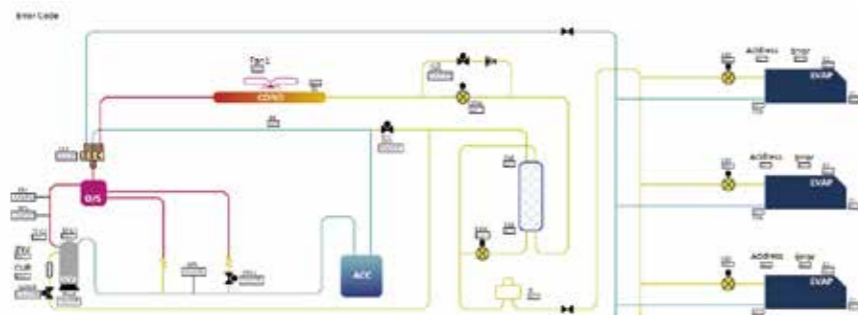
Use-friendly Interface

A stylish and simple interface with rich graphical representations makes diagnosing system issues quick and convenient.



Diagrams

A system schematic, refrigerant flow diagram and parameter chart can be generated to provide a graphical interpretation of the system status.



Parameter Querying

Access all the system parameters easily.

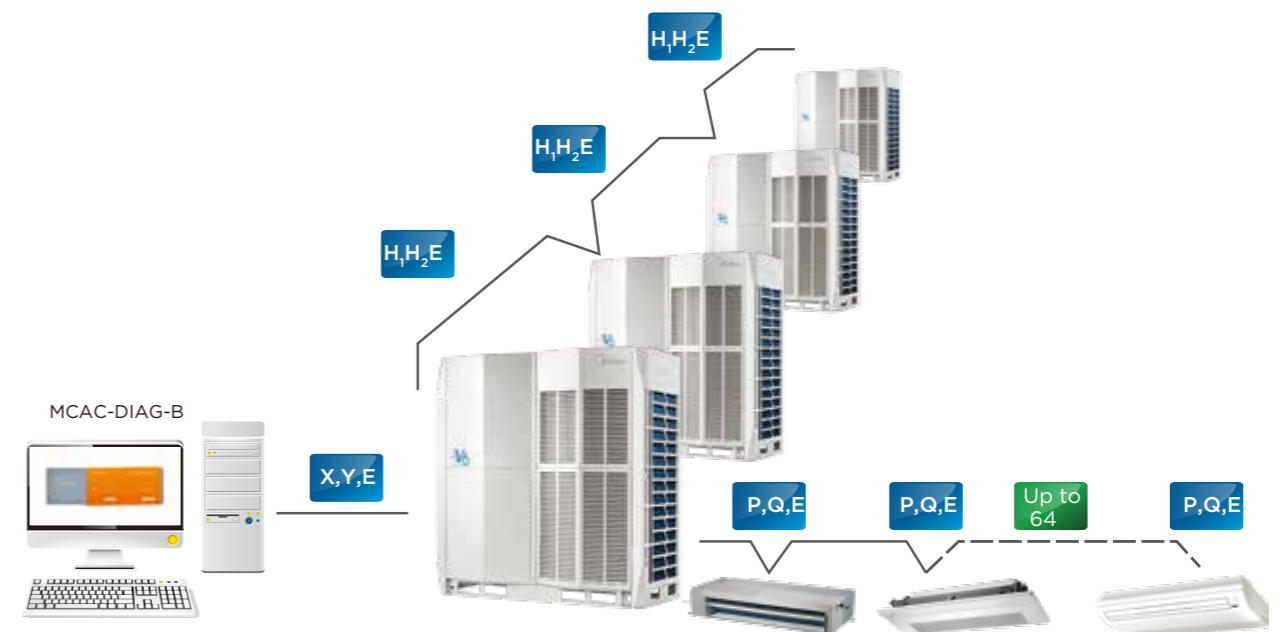


Data Logs

Data logs including operating records and error reports are saved by the software which is useful for discovering system issues.



Wiring Schematic



VRF AHU Control Box

High Efficiency

AHU kit facilitates raising the EER/COP of the complete AHU system.



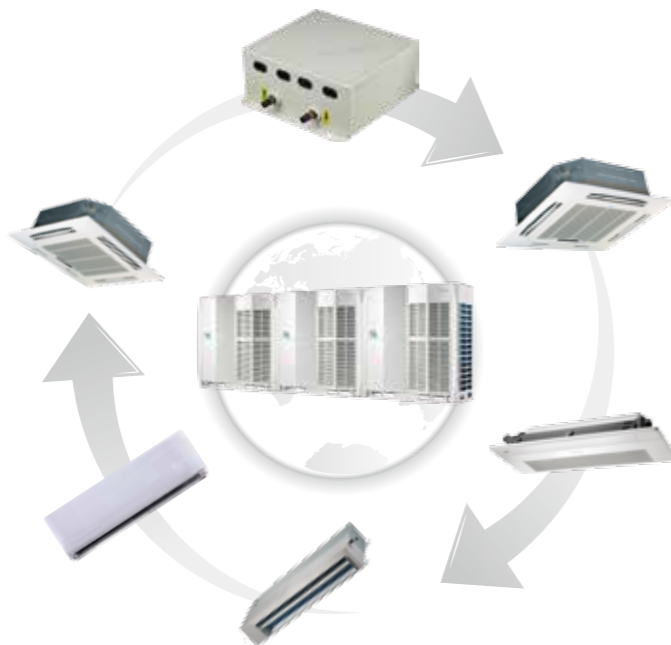
Wide Capacity Range

Four kits can be used in parallel, giving an overall capacity range of 3.2HP to 80HP.

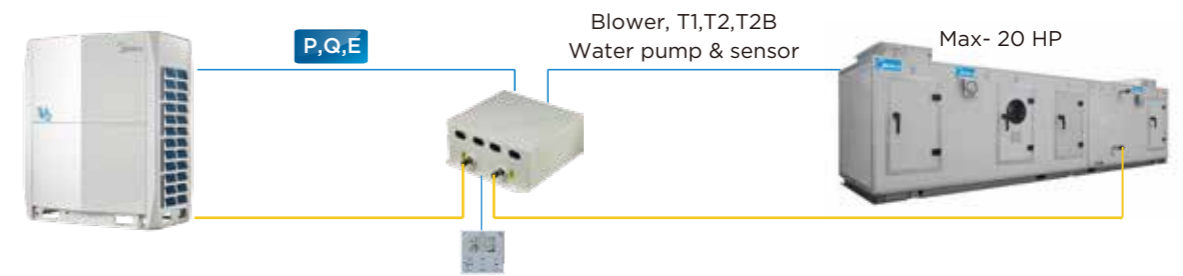


Compatible with All VRF Systems

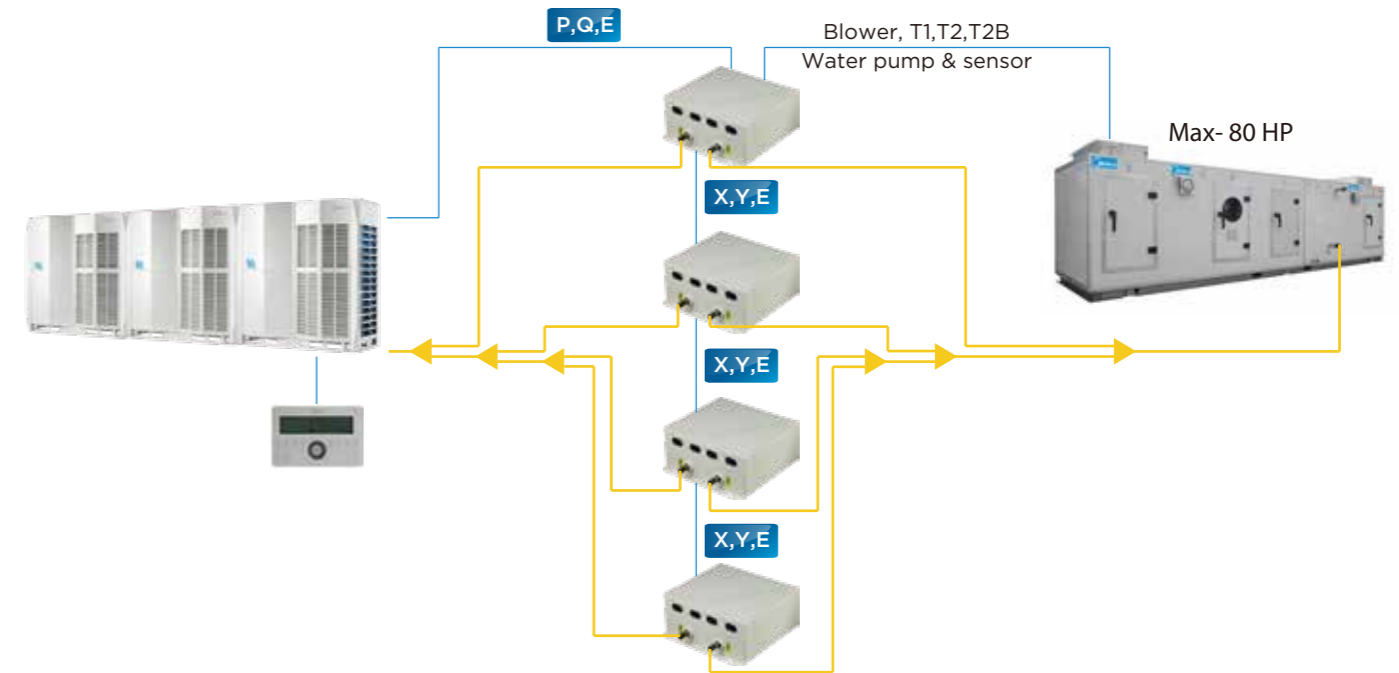
AHU kits are compatible with all Midea VRF outdoor units and can be used together with all types of Midea VRF indoor units.



Single AHU Control Box Connection



Multi AHU Control Boxes Connection



Specifications

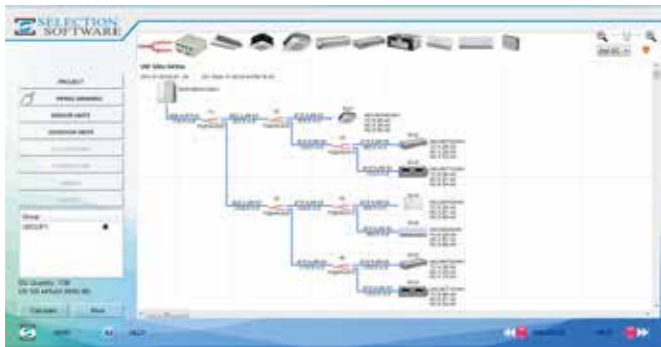
Model		AHUKZ-01B	AHUKZ-02B	AHUKZ-03B
Capacity	HP	3.2-6	8-12	14-20
Power supply		1 phase, 208-230V, 60Hz		
Refrigerant		R410A		
Pipe connections (inlet and outlet)	mm	Φ8	Φ12.7	Φ15.9
Net dimensions (W×H×D)	mm	350×150×375		
Packed dimensions (W×H×D)	mm	420×240×490		
Net weight	kg	8.4	8.7	8.9
Gross weight	kg	11.4	11.7	11.9
Operating modes		Cooling, heating and fan only		
Standard controller		Wired controller		
Optional controller		Wireless remote controller; SIEMENS controller		

Selection Software

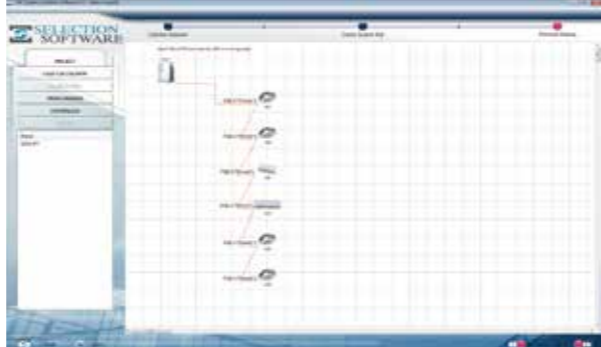
High Efficiency

Midea's advanced design automation tool can be used by designers, consultants and distributors to greatly reduce the time and effort that must be devoted to the selection process. The software provides quick and convenient selectable options for users, supports multiple languages, and greatly improves the selection process.

The Selection Software provides distributors' sales team with a comprehensive selection of system design reports and calculations. Load calculations may be on either an initial estimate basis or detailed room-by-room basis. Based on the indoor units, outdoor units and controllers selected, the software produces detailed system layout diagrams and piping requirement calculations.



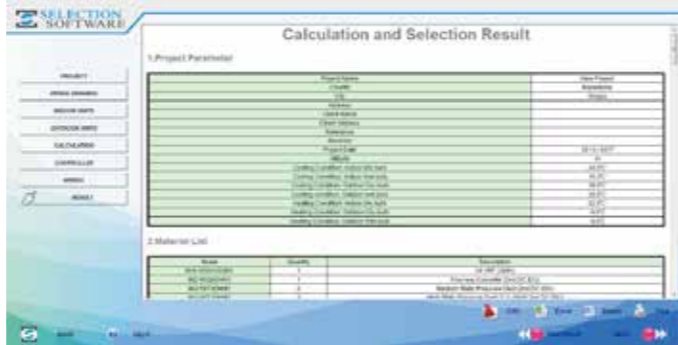
Piping diagram



Wiring diagram



Controller selection

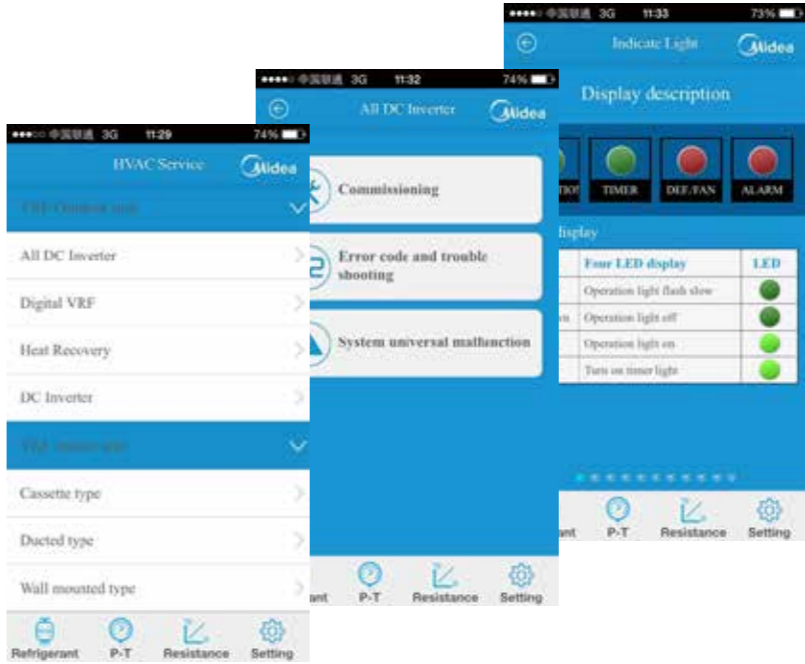


Report

Mobile Applications

Midea CAC After-service App

The Midea CAC After-service app is a very useful tool for engineers during commissioning, refrigerant charging and troubleshooting.



Midea CAC After-service Application



Android Version



iOS Version

HEAT RECOVERY VENTILATOR

Fan Motor Options

AC and DC fan versions available.

Enhanced Efficiency

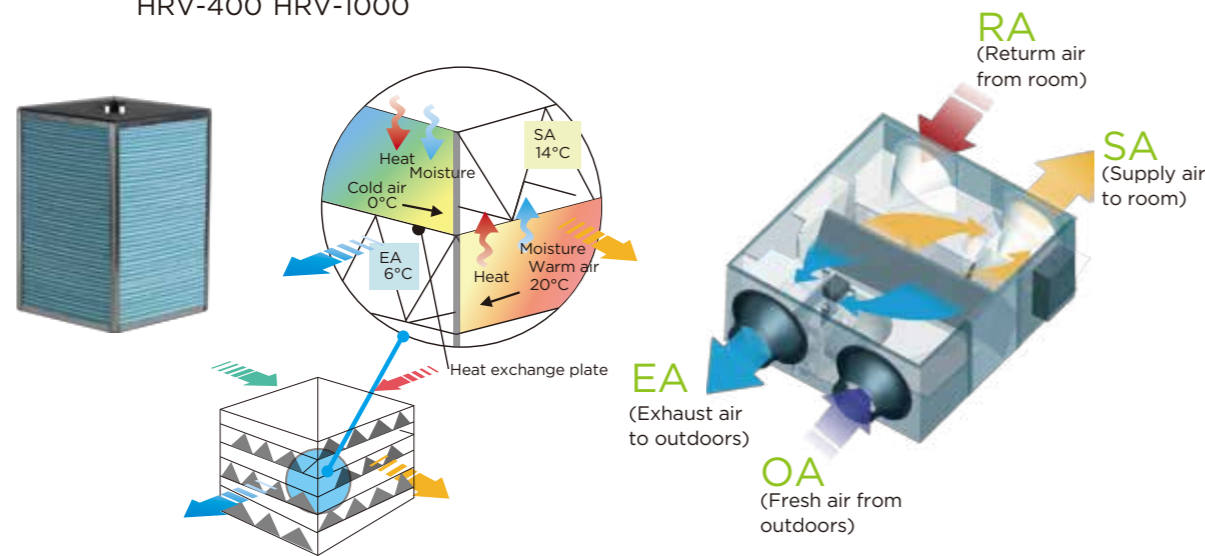
The Midea heat recovery ventilator (HRV) can greatly reduce energy losses and room temperature fluctuations caused by the ventilation process. The Midea HRV's strong performance is a result of the advanced technology incorporated into its design. The heat exchanger core is made of specially treated paper which gives enhanced temperature and humidity control. Temperature exchange efficiency is over 65% and enthalpy exchange efficiency is 50-65%.



HRV-200 HRV-500
HRV-300 HRV-800
HRV-400 HRV-1000



HRV-1500
HRV-2000

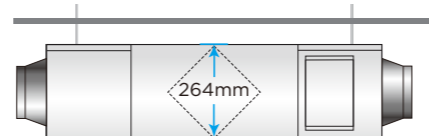


Low Noise

Soundproofing is used to guarantee quiet operation.

Flexibility

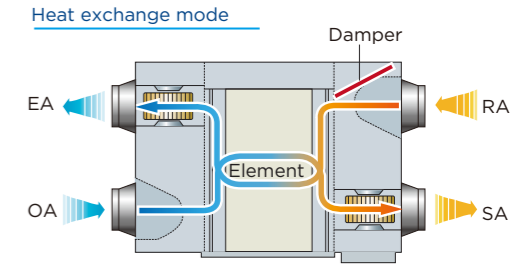
Heights starting from as little as 264mm and weights from as little as 23kg mean that the Midea HRV can be easily installed even where space is limited.



Multiple Modes

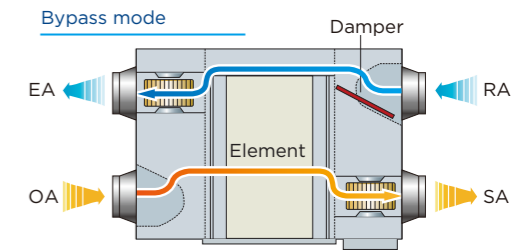
Heat exchange mode

The flows of incoming and outgoing air pass close to each other, allowing heat transfer between the two channels. During summer, incoming air is cooled by the indoor air being exhausted and in winter, incoming air is warmed.



Bypass mode

In mild climates or seasons, where temperature and humidity differences between indoors and outdoors are small, the HRV can work as a conventional ventilation fan. In standard bypass mode the supply and exhaust fans run at the same speed.



Air supply mode

Air supply mode is a form of bypass mode where the supply fan is set to run faster than the exhaust fan, which is useful in mild climate installations with high fresh air ventilation requirements.

Exhaust mode

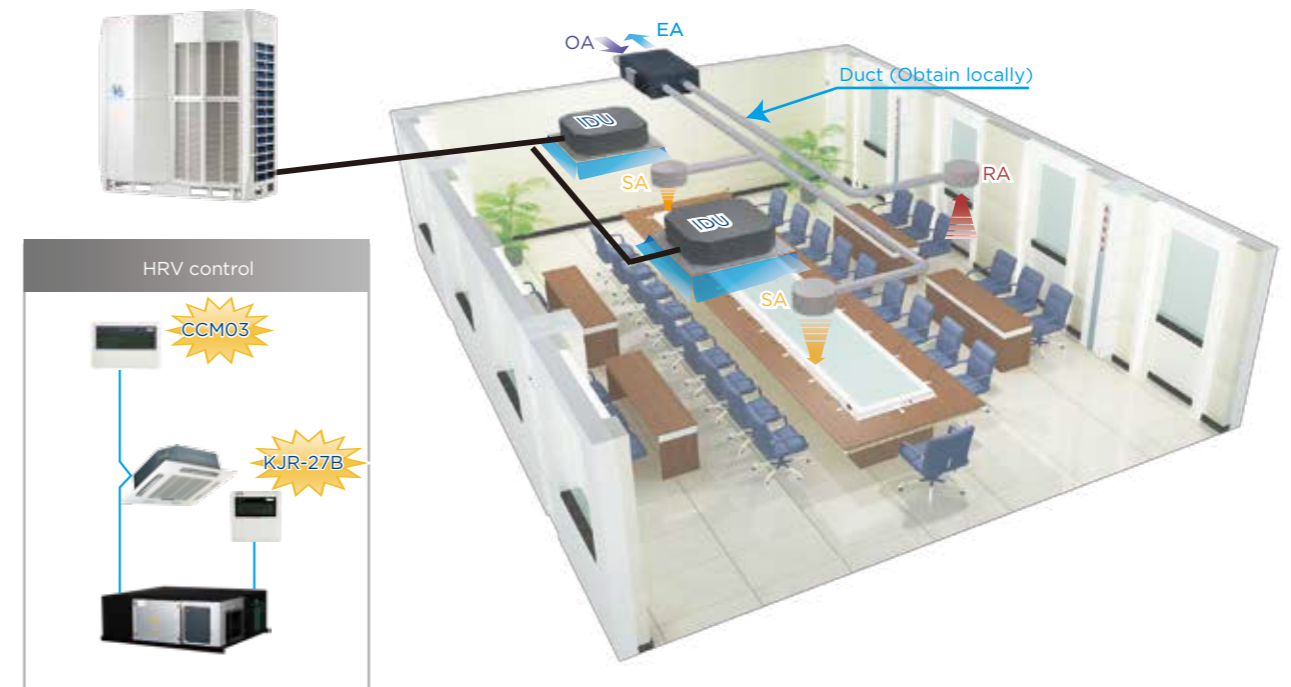
Exhaust mode is a form of bypass mode where the exhaust fan is set to run faster than the supply fan, which is useful in mild climate installations with large amounts of exhaust air to be expelled.

Auto mode

The controller chooses heat exchange mode or bypass mode according to the temperature difference between outdoors and indoors. Both fans are set to run at low speed.

Flexible Control

HRV can be controlled together with other indoor units.



Specifications

AC Series

Model		HRV-200	HRV-300	HRV-400	HRV-500
Power supply	V/Ph/Hz	220-240/1/50		220-240/1/50 & 220/1/60	
Cooling temp. exchange efficiency (H/M/L)	%	55/55/60	55/55/60	55/55/60	55/55/60
Cooling enthalpy exchange efficiency (H/M/L)	%	50/50/55	50/50/55	50/50/55	50/50/55
Heating temp. exchange efficiency (H/M/L)	%	60/60/65	60/60/65	60/60/65	65/65/70
Heating enthalpy exchange efficiency (H/M/L)	%	55/55/60	55/55/60	60/60/65	60/60/65
Sound pressure level in heat exchange mode (H/M/L)	dB(A)	27/26/20	30/29/23	32/31/25	35/34/28
Sound pressure level in bypass mode (H/M/L)	dB(A)	28/27/22	31/30/25	33/32/27	36/35/30
Airflow rate (H/M/L)	m ³ /h	200/200/150	300/300/225	400/400/300	500/500/375
External static pressure (H/M/L)	Pa	75/58/35	75/60/40	80/65/43	80/68/45
Motor type		AC			
Duct diameter	mm	Φ144	Φ144	Φ144	Φ194
Net dimensions (WxDxH)	mm	866×655×264	944×722×270	944×927×270	1038×1026×270
Packed dimensions (WxDxH)	mm	960×770×445	1020×810×452	1020×1020×452	1120×1120×452
Net weight	kg	23	26	31	41
Gross weight	kg	40	44	52	64
Operating temperature range	°C	-7 to 43 DB, RH 80% or lower			

Model		HRV-800	HRV-1000	HRV-1500	HRV-2000
Power supply	V/Ph/Hz	220-240/1/50 & 220/1/60		380-415/3/50 & 220/3/60	
Cooling temp. exchange efficiency (H/M/L)	%	55/55/60	55/55/60	55	55
Cooling enthalpy exchange efficiency (H/M/L)	%	50/50/55	50/50/55	50	50
Heating temp. exchange efficiency (H/M/L)	%	65/65/70	65/65/70	65	65
Heating enthalpy exchange efficiency (H/M/L)	%	60/60/65	60/60/65	60	60
Sound pressure level in heat exchange mode (H/M/L)	dB(A)	39/38/32	40/39/33	51	53
Sound pressure level in bypass mode (H/M/L)	dB(A)	40/39/34	41/40/35	52	54
Airflow rate (H/M/L)	m ³ /h	800/800/600	1000/1000/750	1500	2000
External static pressure (H/M/L)	Pa	100/82/54	100/85/58	160	170
Motor type		AC			
Duct dimensions	mm	Φ242	Φ242	346×326	346×326
Net dimensions (WxDxH)	mm	1286×1006×388	1286×1256×388	1600×1270×540	1650×1470×540
Packed dimensions (WxDxH)	mm	1380×1100×573	1400×1370×573	1710×1410×720	1760×1610×720
Net weight	kg	62	79	163	182
Gross weight	kg	88	110	224	247
Operating temperature range	°C	-7 to 43 DB, RH 80% or lower			

Note:
 1. Models HRV-200 to HRV-1000 each have have 3 airflow settings; the airflow rates of the HRV-1500 and HRV-2000 are not adjustable.
 2. Sound level is measured 1.4m below the center of the unit in an semi-anechoic chamber.
 3. Efficiency is measured under the following conditions:
 Cooling: exhaust air temp 27°C DB, 19.5°C WB; fresh air temp. 35°C DB, 28°C WB.
 Heating: exhaust air temp 21°C DB, 13°C WB; fresh air temp. 5°C DB, 2°C WB.

Specifications



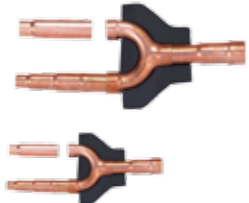
DC Series

Model		HRV-D200	HRV-D300	HRV-D400	HRV-D500
Power supply	V/Ph/Hz	220-240/1/50(60)			
Cooling temp. exchange efficiency	%	76.1	74.8	76.2	76.1
Cooling enthalpy exchange efficiency	%	77.3	76.1	78.7	78.2
Heating temp. exchange efficiency	%	76.1	74.8	76.2	76.1
Heating enthalpy exchange efficiency	%	82.6	79.8	83.6	80.4
Sound pressure level	dB(A)	27	30	32	35
Airflow rate	m ³ /h	200	300	400	500
External static pressure	Pa	75	75	80	80
Motor type		DC			
Duct diameter	mm	Φ144	Φ144	Φ144	Φ194
Net dimensions (WxDxH)	mm	852×665×264	928×734×270	928×940×270	1020×1036×270
Packed dimensions (WxDxH)	mm	910×710×430	980×774×435	1010×1010×440	1120×1120×452
Net weight	kg	25	27	32	35
Gross weight	kg	37	40	46	51
Operating temperature range	°C	-7 to 43 DB, RH 80% or lower			

Model		HRV-D800	HRV-D1000	HRV-D1500	HRV-D2000
Power supply	V/Ph/Hz	220-240/1/50(60)			
Cooling temp. exchange efficiency	%	76.9	75.8	77.8	77.2
Cooling enthalpy exchange efficiency	%	78.1	76.9	79.2	78.7
Heating temp. exchange efficiency	%	76.9	75.8	77.8	77.2
Heating enthalpy exchange efficiency	%	80.1	78.6	80.5	80.3
Sound pressure level	dB(A)	39	40	51	53
Airflow rate	m ³ /h	800	1000	1500	2000
External static pressure	Pa	100	100	160	170
Motor type		DC			
Duct dimensions	mm	Φ242	Φ242	346×326	346×326
Net dimensions (WxDxH)	mm	1276×1020×388	1276×1269×388	1600×1270×540	1650×1470×540
Packed dimensions (WxDxH)	mm	1355×1045×560	1400×1370×573	1710×1410×720	1760×1610×720
Net weight	kg	58	69	151	165
Gross weight	kg	77	90	184	198
Operating temperature range	°C	-7 to 43 DB, RH 80% or lower			

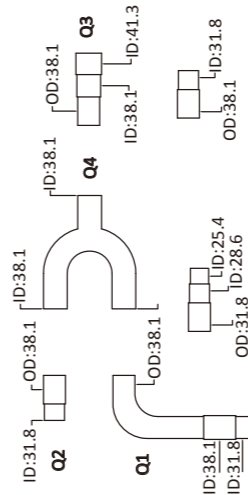
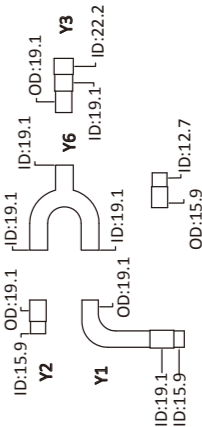
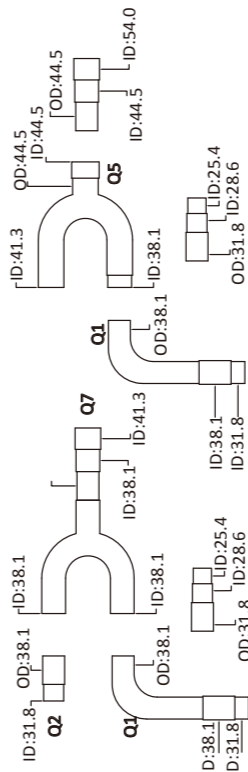
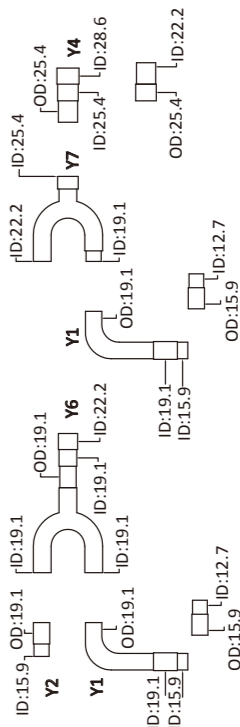
Note:
 1. All models each have have 3 airflow setting.
 2. Sound level is measured 1.4m below the center of the unit in an semi-anechoic chamber.
 3. Efficiency is measured under the following conditions:
 Cooling: exhaust air temp 27°C DB, 19.5°C WB; fresh air temp. 35°C DB, 28°C WB.
 Heating: exhaust air temp 21°C DB, 13°C WB; fresh air temp. 5°C DB, 2°C WB.

BRANCH JOINTS

Type	Appearance	Model	Packed Dimensions mm	Gross Weight kg	Note
Branch joints for outdoor units		FQZHW-02N1E	255×150×185	2.0	Connecting two outdoor units
		FQZHW-03N1E	345×160×285	4.3	Connecting three outdoor units
Branch joints for indoor units		FQZHN-01D	290×105×100	0.4	/
		FQZHN-02D	290×105×100	0.6	/
		FQZHN-03D	310×130×125	0.9	/
		FQZHN-04D	350×180×170	1.5	/
		FQZHN-05D	365×195×215	1.9	/
		FQZHN-06D	390×230×255	3.1	/
		FQZHN-07D	390×230×255	3.4	/

Dimensions

Outdoor Branch Joints

Model	Gas side joints	Liquid side joints
FQZHW-02N1E	 <p>Q1: ID:38.1, OD:38.1, ID:31.8, OD:31.8 Q2: ID:38.1, OD:38.1, ID:31.8, OD:31.8 Q3: ID:38.1, OD:38.1, ID:41.3, OD:41.3 Q4: ID:38.1, OD:38.1, ID:31.8, OD:31.8</p>	 <p>Y1: ID:19.1, OD:19.1, ID:15.9, OD:15.9 Y2: ID:19.1, OD:19.1, ID:15.9, OD:15.9 Y3: ID:19.1, OD:19.1, ID:22.2, OD:22.2 Y6: ID:19.1, OD:19.1, ID:12.7, OD:12.7</p>
FQZHW-03N1E	 <p>Q1: ID:38.1, OD:38.1, ID:31.8, OD:31.8 Q5: ID:44.5, OD:44.5, ID:41.3, OD:41.3 Q7: ID:38.1, OD:38.1, ID:41.3, OD:41.3</p>	 <p>Y1: ID:19.1, OD:19.1, ID:15.9, OD:15.9 Y4: ID:25.4, OD:25.4, ID:28.6, OD:28.6 Y6: ID:19.1, OD:19.1, ID:22.2, OD:22.2 Y7: ID:25.4, OD:25.4, ID:12.7, OD:12.7</p>

Dimensions

Indoor Branch Joints

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

