



# SERIES VRF

Commercial Air Conditioners **2018/2019**



Midea CAC After-service Application



iOS Version



Android Version

## Commercial Air Conditioner Division

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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.



2017 >> Launched the All DC Inverter V6 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

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VRF V6 Series Heat Pump

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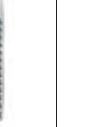
## BRANCH JOINTS

Branch Joints

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# OUTDOOR UNIT LINEUP

HP	8	10	12	14	16	18	20	22	24	26	28	30	32
Appearance													
8	●												
10		●											
12			●										
14				●									
16					●								
18						●							
20							●						
22								●					
24									●				
26										●			
28										●			
30											●		
32												●	
34											●		
36											●		
38											●		
40											●		
42												●	
44												●	
46												●	
48												●	
50												●	
52													●

HP	8	10	12	14	16	18	20	22	24	26	28	30	32
Appearance													
54											●	●	
56											●	●	
58											●	●	
60											●		
62											●	●	
64												●	
66								●					
68									●				
70										●			
72									●				
74										●	●		
76										●			
78										●			
80										●			
82										●			
84											●		
86											●		
88											●		
90											●	●	
92											●		
94											●	●	
96												●	●

# 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 <sup>*</sup>	45.0 <sup>*</sup>	56.0 <sup>*</sup>
27k	30k	34k	38k	42k	48k	55k	68k	85k	96k	136k	154k	191k
●	●	●	●	●	●							
●	●		●		●							
●	●		●		●	●	●	●	●	●	●	●
			●		●	●	●	●	●	●	●	●
●	●			●								
●	●				●							
					●							
●	●											
●	●											



Series

# OUTDOOR UNITS

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3 Unique Innovations

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Easy Installation and Service



# 3 Unique Innovations

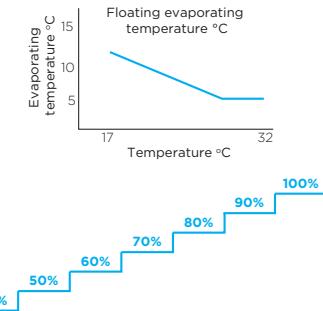
## Energy Management System (EMS)

- 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.

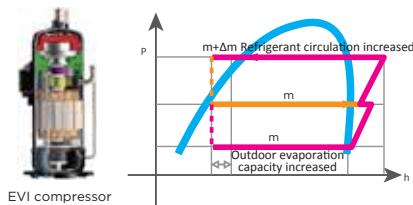
- Output limitation during electricity supply restrictions

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.

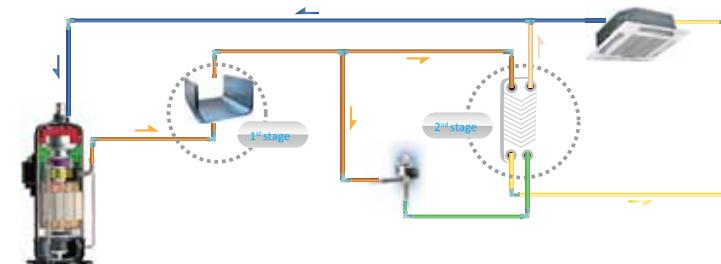
- A desktop or laptop PC can be used for browser-based access to achieve system configurations through IMM Pro gateway via a LAN connection.



# High Efficiency

## Plate Heat Exchanger (PHE) Subcooling

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

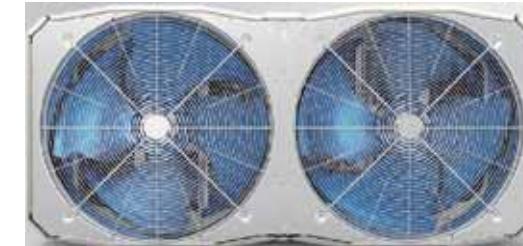


## High Efficiency G-Type Heat Exchanger

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

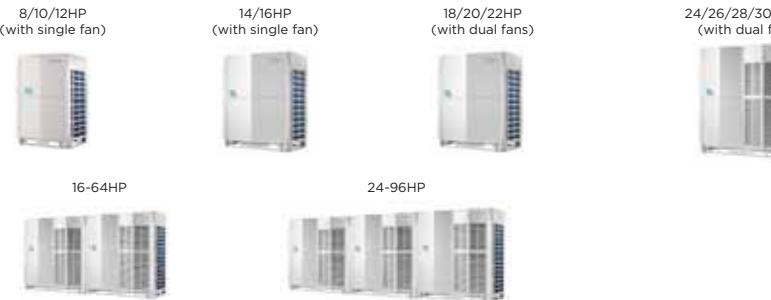


Super big size fan

# Wide Application Range

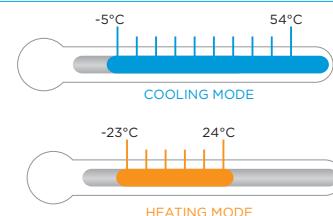
## Wide Capacity Range

Starting at 8HP, capacity increases in 2HP increments up to 96HP, which is the world's largest single-system VRF capacity.



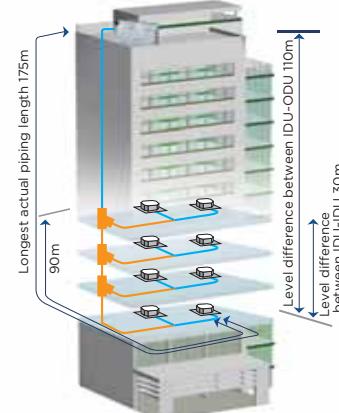
## Wide Operation Range

The V6 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 above (below): 90m (110m)
- Level difference between IDUs: 30m



# High Reliability

## Duty Cycling

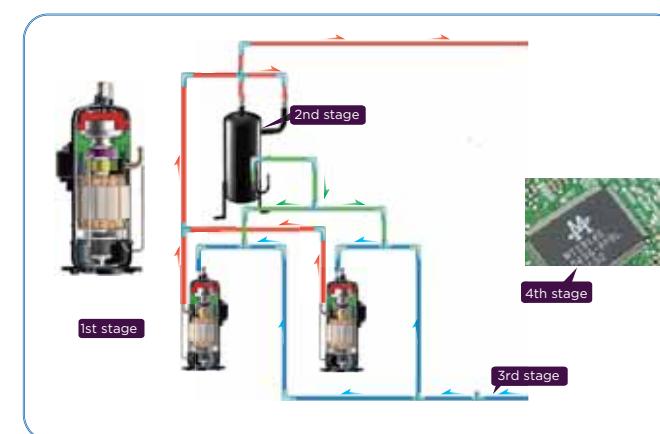
Duty cycling equalizes the running time of the outdoor units in a multiple-unit system and of the compressors in each unit, significantly extending compressor lifespan.



## 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.

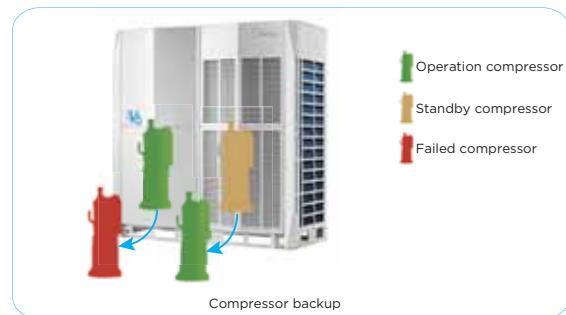
- Compressor internal oil separation.
- High-efficiency centrifugal oil separator (with separation efficiency of up to 99%) ensures that oil is separated from the discharge gas and returned to the compressors in a timely fashion.
- Oil balance pipes between compressors ensure even oil distribution to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



# High Reliability

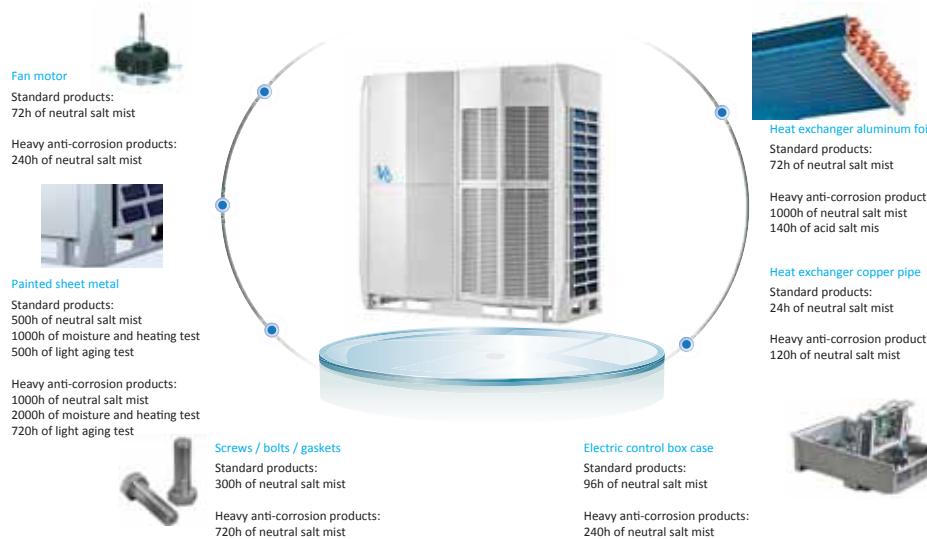
## Backup Operation

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.



## Anti-corrosion Protection

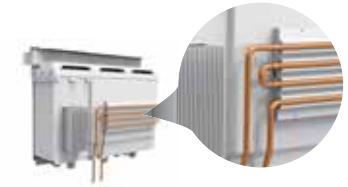
Outdoor units are given anti-corrosion treatment for non-extreme conditions as standard and can also be customized with heavy anti-corrosion treatment on main components for surface protection against corrosive air, acid rain and saline air (for installations in coastal regions) to extend overall useful 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.



# High Reliability

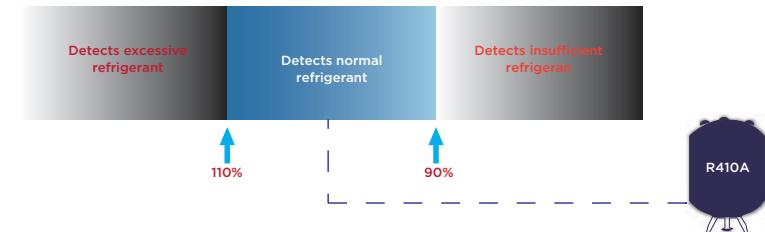
## Refrigerant Cooling PCB

The V6 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.



## 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.

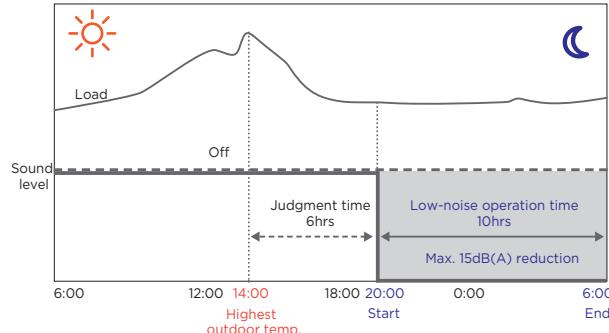
\*This function is available as a customization option.



# Enhanced Comfort

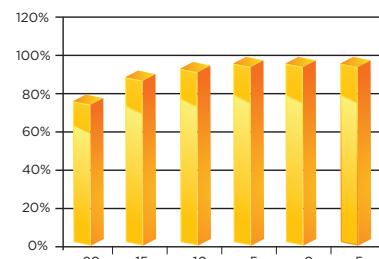
## Night Silent Mode

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.



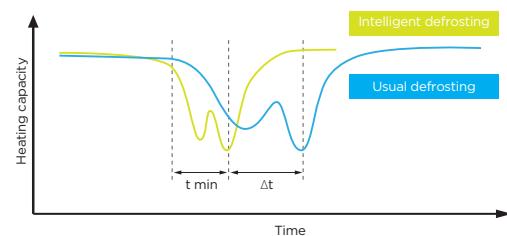
## Enhanced Heating Capacity

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.

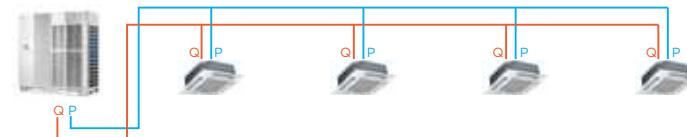


# Easy Installation and Service

## 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	14	
Model		MV6-252WV2GN1	MV6-280WV2GN1	MV6-335WV2GN1	MV6-400WV2GN1	
Power supply	V/Ph/Hz		380-415/3/50(60)			
Cooling <sup>1</sup>	Capacity	kW	25.2	28.0	33.5	40.0
		kBtu/h	86.0	95.5	114.3	136.5
	Power input	kW	5.3	6.3	8.7	9.9
	EER	kW/kW	4.75	4.45	3.85	4.05
Heating <sup>2</sup>	Capacity	kW	25.2	28.0	33.5	40.0
		kBtu/h	86.0	95.5	114.3	136.5
	Power input	kW	4.6	5.2	6.6	8.5
	COP	kW/kW	5.50	5.40	5.10	4.70
Connectable	Total capacity		50-130% of outdoor unit capacity			
Indoor Unit	Max. quantity	13	16	20	23	
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	Liquid pipe	mm	Φ12.7		Φ15.9	13
connections <sup>3</sup>	Gas pipe	mm	Φ25.4		Φ28.6	Φ31.8
Airflow rate	m <sup>3</sup> /h		11000		13000	
Sound pressure level <sup>4</sup>	dB(A)		58		60	
Net dimensions (WxHxD)	mm		990x1635x790		1340x1635x850	
Packed dimensions (WxHxD)	mm		1090x1805x860		1405x1805x910	
Net weight	kg		227		277	
Gross weight	kg		242		304	
Ambient temp.   Cooling	°C		-5 to 54			
operating range   Heating	°C		-23 to 24			



Capacity	HP	16	18	20	22	
Model		MV6-450WV2GN1	MV6-500WV2GN1	MV6-560WV2GN1	MV6-615WV2GN1	
Power supply	V/Ph/Hz		380-415/3/50(60)			
Cooling <sup>1</sup>	Capacity	kW	45.0	50.0	56.0	61.5
		kBtu/h	153.5	170.6	191.1	209.8
	Power input	kW	12.0	12.5	15.1	18.4
	EER	kW/kW	3.75	4.00	3.70	3.35
Heating <sup>2</sup>	Capacity	kW	45.0	50.0	56.0	61.5
		kBtu/h	153.5	170.6	191.1	209.8
	Power input	kW	9.8	10.6	12.7	15.0
	COP	kW/kW	4.60	4.70	4.40	4.10
Connectable	Total capacity		50-130% of outdoor unit capacity			
Indoor Unit	Max. quantity	26	29	33	36	
Compressors	Type		DC inverter			
	Quantity	1		2		
Fan motors	Type		DC			
	Quantity	1		2		
	Max. ESP	Pa		20 default; 60 customization option		
Refrigerant	Type		R410A			
	Factory charge	kg	13		17	
Pipe	Liquid pipe	mm	Φ15.9		Φ19.1	
connections <sup>3</sup>	Gas pipe	mm	Φ31.8		Φ31.8	
Airflow rate	m <sup>3</sup> /h		13000		17000	
Sound pressure level <sup>4</sup>	dB(A)		61	62	63	
Net dimensions (WxHxD)	mm		1340x1635x850		1340x1635x825	
Packed dimensions (WxHxD)	mm			1405x1805x910		
Net weight	kg		277		348	
Gross weight	kg		304		368	
Ambient temp.   Cooling	°C		-5 to 54			
operating range   Heating	°C		-23 to 24			

Notes:

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

# Specifications



Capacity	HP	24	26	28	
Model		MV6-70WV2GN1	MV6-730WV2GN1	MV6-785WV2GN1	
Power supply	V/Ph/Hz		380-415/3/50(60)		
Cooling <sup>1</sup>	Capacity	kW	67.0	73.0	78.5
		kBtu/h	228.6	249.1	267.8
	Power input	kW	18.1	20.9	24.2
	EER	kW/kW	3.70	3.49	3.25
Heating <sup>2</sup>	Capacity	kW	67.0	73.0	78.5
		kBtu/h	228.6	249.1	267.8
	Power input	kW	14.9	17.6	20.7
	COP	kW/kW	4.50	4.15	3.80
Connectable	Total capacity		50-130% of outdoor unit capacity		
Indoor Unit	Max. quantity	39	43	46	
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	
Pipe	Liquid pipe	mm	Φ19.1		Φ22.2
connections <sup>3</sup>	Gas pipe	mm	Φ31.8		Φ31.8
Airflow rate	m <sup>3</sup> /h			25000	
Sound pressure level <sup>4</sup>	dB(A)			64	
Net dimensions (WxHxD)	mm			1730x1830x850	
Packed dimensions (WxHxD)	mm			1800x2000x910	
Net weight	kg			430	
Gross weight	kg			453	
Ambient temp.   Cooling	°C		-5 to 54		
operating range   Heating	°C		-23 to 24		

Capacity	HP	30	32	
Model		MV6-850WV2GN1	MV6-900WV2GN1	
Power supply	V/Ph/Hz		380-415/3/50(60)	
Cooling <sup>1</sup>	Capacity	kW	85.0	90.0
		kBtu/h	290.0	307.1
	Power input	kW	27.4	31.0
	EER	kW/kW	3.10	2.90
Heating <sup>2</sup>	Capacity	kW	85.0	90.0
		kBtu/h	290.0	307.1
	Power input	kW	23.0	25.7
	COP	kW/kW	3.70	3.50
Connectable	Total capacity		50-130% of outdoor unit capacity	
Indoor Unit	Max. quantity	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	25	
Pipe	Liquid pipe	mm	Φ22.2	
connections <sup>3</sup>	Gas pipe	mm	Φ38.1	
Airflow rate	m <sup>3</sup> /h		24000	
Sound pressure level <sup>4</sup>	dB(A)		64	
Net dimensions (WxHxD)	mm		1730x1830x850	
Packed dimensions (WxHxD)	mm		1800x2000x910	
Net weight	kg		475	
Gross weight	kg		507	
Ambient temp.   Cooling	°C		-5 to 54	
operating range   Heating	°C		-23 to 24	

Notes:

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

# Specifications



Capacity	HP	34	36	38	40	
Model		MV6-950WV2GN1	MV6-1015WV2GN1	MV6-1065WV2GN1	MV6-1120WV2GN1	
Combination type		12HP+22HP	14HP+22HP	16HP+22HP	12HP+28HP	
Power supply	V/Ph/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	
Cooling <sup>1</sup>	Capacity	kW	95.0	101.5	106.5	
		kBTu/h	324.1	346.3	363.4	382.1
	Power input	kW	27.1	28.2	30.4	32.9
	EER	kW/kW	3.51	3.59	3.51	3.41
Heating <sup>2</sup>	Capacity	kW	95.0	101.5	106.5	112.0
		kBTu/h	324.1	346.3	363.4	382.1
	Power input	kW	21.6	23.5	24.8	27.2
	COP	kW/kW	4.40	4.32	4.30	4.11
Connectable	Total capacity	50-130% of outdoor unit capacity				
Indoor Unit	Max. quantity	56	59	63	64	
Compressors	Type	DC inverter				
	Quantity	3				
Fan motors	Type	DC				
	Quantity	3				
Max. ESP	Pa	20 default; 60 customization option				
Refrigerant	Type	R410A				
Factory charge	kg	11+17	13+17	11+22		
Pipe	Liquid pipe	mm	Φ19.1	Φ19.1		
connections <sup>3</sup>	Gas pipe	mm	Φ31.8	Φ38.1		
Airflow rate	m <sup>3</sup> /h	28000	30000	36000		
Sound pressure level <sup>4</sup>	dB(A)	65				
Net dimensions (WxHxD)	mm	(990×1635×790)+(1340×1635×825)	(1340×1635×850)+(1340×1635×825)	(990×1635×790)+(1730×1830×850)		
Packed dimensions (WxHxD)	mm	(1090×1805×860)+(1405×1805×	(1405×1805×910)×2	(1090×1805×860)+(1800×2000×		
Net weight	kg	227+348	277+348	227+430		
Gross weight	kg	242+368	304+368	242+453		
Ambient temp. operating range	Cooling	°C	-5 to 54			
	Heating	°C	-23 to 24			



Capacity	HP	42	44	46	48	
Model <sup>1</sup>		MV6-1175WV2GN1	MV6-1230WV2GN1	MV6-1285WV2GN1	MV6-1345WV2GN1	
Combination type		20HP+22HP	22HP+22HP	22HP+24HP	22HP+26HP	
Power supply	V/Ph/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	
Cooling <sup>1</sup>	Capacity	kW	117.5	123.0	128.5	134.5
		kBTu/h	400.9	419.7	438.4	458.9
	Power input	kW	33.5	36.7	36.5	39.3
	EER	kW/kW	3.51	3.35	3.52	3.43
Heating <sup>2</sup>	Capacity	kW	117.5	123.0	128.5	134.5
		kBTu/h	400.9	419.7	438.4	458.9
	Power input	kW	27.7	30.0	29.9	32.6
	COP	kW/kW	4.24	4.10	4.30	4.13
Connectable	Total capacity	50-130% of outdoor unit capacity				
Indoor Unit	Max. quantity	64				
Compressors	Type	DC inverter				
	Quantity	4				
Fan motors	Type	DC				
	Quantity	4				
Max. ESP	Pa	20 default; 60 customization option				
Refrigerant	Type	R410A				
Factory charge	kg	17×2	17×2	17+22		
Pipe	Liquid pipe	mm	Φ19.1			
connections <sup>3</sup>	Gas pipe	mm	Φ38.1			
Airflow rate	m <sup>3</sup> /h	34000		42000		
Sound pressure level <sup>4</sup>	dB(A)	66				
Net dimensions (WxHxD)	mm	(1340×1635×825)×2	(1340×1635×825)+(1730×1830×850)			
Packed dimensions (WxHxD)	mm	(1405×1805×910)×2	(1405×1805×910)+(1800×2000×910)			
Net weight	kg	348×2		348+430		
Gross weight	kg	368×2		368+453		
Ambient temp. operating range	Cooling	°C	-5 to 54			
	Heating	°C	-23 to 24			

# Specifications



Capacity	HP	50	52	54	56	
Model		MV6-1400WV2GN1	MV6-1460WV2GN1	MV6-1515WV2GN1	MV6-1570WV2GN1	
Combination type		22HP+28HP	26HP+26HP	26HP+28HP	28HP+28HP	
Power supply	V/Ph/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	
Cooling <sup>1</sup>	Capacity	kW	140.0	146.0	151.5	
		kBTu/h	477.7	498.2	516.9	535.7
	Power input	kW	42.5	41.8	45.1	48.3
	EER	kW/kW	3.29	3.49	3.36	3.25
Heating <sup>2</sup>	Capacity	kW	140.0	146.0	151.5	157.0
		kBTu/h	477.7	498.2	516.9	535.7
	Power input	kW	35.7	35.2	38.3	41.3
	COP	kW/kW	3.93	4.15	3.96	3.80
Connectable	Total capacity	50-130% of outdoor unit capacity				
Indoor Unit	Max. quantity	64				
Compressors	Type	DC inverter				
	Quantity	4				
Fan motors	Type	DC				
	Quantity	4				
Max. ESP	Pa	20 default; 60 customization option				
Refrigerant	Type	R410A				
Factory charge	kg	17+22	22×2			
Pipe	Liquid pipe	mm	Φ19.1	Φ19.1		
connections <sup>3</sup>	Gas pipe	mm	Φ38.1	Φ41.3		
Airflow rate	m <sup>3</sup> /h	42000		50000		
Sound pressure level <sup>4</sup>	dB(A)	66				
Net dimensions (WxHxD)	mm	(1340×1635×825)+(1730×1830×850)		(1730×1830×850)×2		
Packed dimensions (WxHxD)	mm	(1405×1805×910)+(1800×2000×910)		(1800×2000×910)×2		
Net weight	kg	348+430		430×2		
Gross weight	kg	368+453		453×2		
Ambient temp. operating range	Cooling	°C	-5 to 54			
	Heating	°C	-23 to 24			



Capacity	HP	58	60	62	64	
Model <sup>1</sup>		MV6-1635WV2GN1	MV6-1685WV2GN1	MV6-1750WV2GN1	MV6-1800WV2GN1	
Combination type		28HP+30HP	28HP+32HP	30HP+32HP	32HP+32HP	
Power supply	V/Ph/Hz	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	380-415/3/50(60)	
Cooling <sup>1</sup>	Capacity	kW	163.5	168.5	175.0	180.0
		kBTu/h	557.9	574.9	597.1	614.2
	Power input	kW	51.6	55.2	58.5	62.1
	EER	kW/kW	3.17	3.05	2.99	2.90
Heating <sup>2</sup>	Capacity	kW	163.5	168.5	175.0	180.0
		kBTu/h	557.9	574.9	597.1	614.2
	Power input	kW	43.6	46.4	48.7	51.4
	COP	kW/kW	3.75	3.63	3.59	3.50
Connectable	Total capacity	50-130% of outdoor unit capacity				
Indoor Unit	Max. quantity	64				
Compressors	Type	DC inverter				
	Quantity	4				
Fan motors	Type	DC				
	Quantity	4				
Max. ESP	Pa	20 default; 60 customization option				
Refrigerant	Type	R410A				
Factory charge	kg	22+25	25×2			
Pipe	Liquid pipe	mm	Φ19.1			
connections <sup>3</sup>	Gas pipe	mm	Φ41.3			
Airflow rate	m <sup>3</sup> /h	49000		48000		
Sound pressure level <sup>4</sup>	dB(A)	66				
Net dimensions (WxHxD)	mm		(1730×1830×850)×2			
Packed dimensions (WxHxD)	mm		(1800×2000×910)×2			
Net weight	kg	430+475		475×2		
Gross weight	kg	453+507		507×2		
Ambient temp. operating range	Cooling	°C	-5 to 54			
	Heating	°C	-23 to 24			

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.  
 2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.  
 3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V6 Series Engineering Data Book for connection piping diameters.  
 4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.  
 2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.  
 3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V6 Series Engineering Data Book for connection piping diameters.  
 4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

# Specifications



Capacity	HP	66	68	70	72	
Model		MV6-1850WV2GN1	MV6-1915WV2GN1	MV6-1965WV2GN1	MV6-2020WV2GN1	
Combination type		12HP+22HP+32HP	14HP+22HP+32HP	16HP+22HP+32HP	12HP+28HP+32HP	
Power supply	V/Ph/Hz	380-415/3/50(60)				
Cooling <sup>1</sup>	Capacity	kW	185.0	191.5	196.5	202.0
	Power input	kBtu/h	631.2	653.4	670.5	689.2
	EER	kW/kW	58.1	59.3	61.4	63.9
Heating <sup>2</sup>	Capacity	kW	185.0	191.5	196.5	202.0
	Power input	kBtu/h	631.2	653.4	670.5	689.2
	COP	kW/kW	47.3	49.2	50.5	52.9
Connectable	Total capacity	50-130% of outdoor unit capacity				
Indoor Unit	Max. quantity	64				
Compressors	Type	DC inverter				
	Quantity	5				
Fan motors	Type	DC				
	Quantity	5				
	Max. ESP	Pa	20 default; 60 customization option			
Refrigerant	Type	R410A				
	Factory charge	kg	11+17+25	13+17+25	11+22+25	
Pipe	Liquid pipe	mm	Ø19.1	Ø22.2		
connections <sup>3</sup>	Gas pipe	mm	Ø41.3	Ø44.5		
Airflow rate	m <sup>3</sup> /h	52000	54000	60000		
Sound pressure level <sup>4</sup>	dB(A)	67				
Net dimensions (WxHxD)	mm	(990x1635x790)+(1340x1635x825)+(1730x1830x850)				
Packed dimensions (WxHxD)	mm	(1090x1805x860)+(1405x1805x910)+(1800x2000x910)				
Net weight	kg	227+348+475	277+348+475	227+430+475		
Gross weight	kg	242+368+507	304+368+507	242+453+507		
Ambient temp. operating range	Cooling	°C	-5 to 54			
	Heating	°C	-23 to 24			



Capacity	HP	74	76	78	80	
Model		MV6-2075WV2GN1	MV6-2130WV2GN1	MV6-2185WV2GN1	MV6-2245WV2GN1	
Combination type		20HP+22HP+32HP	22HP+22HP+32HP	22HP+24HP+32HP	22HP+26HP+32HP	
Power supply	V/Ph/Hz	380-415/3/50(60)				
Cooling <sup>1</sup>	Capacity	kW	207.5	213.0	218.5	224.5
	Power input	kBtu/h	708.0	726.8	745.5	766.0
	EER	kW/kW	3.22	3.14	3.24	3.19
Heating <sup>2</sup>	Capacity	kW	207.5	213.0	218.5	224.5
	Power input	kBtu/h	708.0	726.8	745.5	766.0
	COP	kW/kW	53.4	55.7	55.6	58.3
Connectable	Total capacity	50-130% of outdoor unit capacity				
Indoor Unit	Max. quantity	64				
Compressors	Type	DC inverter				
	Quantity	6				
Fan motors	Type	DC				
	Quantity	6				
	Max. ESP	Pa	20 default; 60 customization option			
Refrigerant	Type	R410A				
	Factory charge	kg	17+22+25			
Pipe	Liquid pipe	mm	Ø22.2			
connections <sup>3</sup>	Gas pipe	mm	Ø44.5			
Airflow rate	m <sup>3</sup> /h	58000	66000			
Sound pressure level <sup>4</sup>	dB(A)	68				
Net dimensions (WxHxD)	mm	(1340x1635x825)x2+(1730x1830x850)				
Packed dimensions (WxHxD)	mm	(1405x1805x910)x2+(1800x2000x910)				
Net weight	kg	348+430+475	348+430+475			
Gross weight	kg	368+428+507	368+453+507			
Ambient temp. operating range	Cooling	°C	-5 to 54			
	Heating	°C	-23 to 24			

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.

2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.

3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V6 Series Engineering Data Book for connection piping diameters.

4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

# Specifications



Capacity	HP	82	84	86	88			
Model		MV6-2300WV2GN1	MV6-2360WV2GN1	MV6-2415WV2GN1	MV6-2470WV2GN1			
Combination type		22HP+28HP+32HP	26HP+26HP+32HP	26HP+28HP+32HP	28HP+28HP+32HP			
Power supply	V/Ph/Hz	380-415/3/50(60)						
Cooling <sup>1</sup>	Capacity	kW	230.0	236.0	241.5	247.0		
	Power input	kBtu/h	784.8	805.2	824.0	842.8		
	EER	kW/kW	73.5	72.8	76.1	79.3		
Heating <sup>2</sup>	Capacity	kW	230.0	236.0	241.5	247.0		
	Power input	kBtu/h	784.8	805.2	824.0	842.8		
	COP	kW/kW	3.75	3.87	3.78	3.68		
Connectable	Total capacity	50-130% of outdoor unit capacity						
Indoor Unit	Max. quantity	64						
Compressors	Type	DC inverter						
	Quantity	6						
Fan motors	Type	DC						
	Quantity	6						
	Max. ESP	Pa	20 default; 60 customization option					
Refrigerant	Type	R410A						
	Factory charge	kg	17+22+25	22x2+25				
Pipe	Liquid pipe	mm	Ø22.2	Ø25.4				
connections <sup>3</sup>	Gas pipe	mm	Ø44.5	Ø50.8				
Airflow rate	m <sup>3</sup> /h	66000	74000					
Sound pressure level <sup>4</sup>	dB(A)	68						
Net dimensions (WxHxD)	mm	(1340x1635x825)+(1730x1830x850)x2						
Packed dimensions (WxHxD)	mm	(1405x1805x910)+(1800x2000x910)x2						
Net weight	kg	348+430+475	430x2+475					
Gross weight	kg	368+453+507	453x2+507					
Ambient temp. operating range	Cooling	°C	-5 to 54					
	Heating	°C	-23 to 24					



Capacity	HP	90	92	94	96	
Model		MV6-2535WV2GN1	MV6-2585WV2GN1	MV6-2650WV2GN1	MV6-2700WV2GN1	
Combination type		28HP+30HP+32HP	28HP+32HP+32HP	30HP+32HP+32HP	32HP+32HP+32HP	
Power supply	V/Ph/Hz	380-415/3/50(60)				
Cooling <sup>1</sup>	Capacity	kW	253.5	258.5	265.0	270.0
	Power input	kBtu/h	864.9	882.0	904.2	921.2
	EER	kW/kW	82.6	86.2	89.5	93.1
Heating <sup>2</sup>	Capacity	kW	253.5	258.5	265.0	270.0
	Power input	kBtu/h	864.9	882.0	904.2	921.2
	COP	kW/kW	69.3	72.1	74.4	77.1
Connectable	Total capacity	50-130% of outdoor unit capacity				
Indoor Unit	Max. quantity	64				
Compressors	Type	DC inverter				
	Quantity	6				
Fan motors	Type	DC				
	Quantity	6				
	Max. ESP	Pa	20 default; 60 customization option			
Refrigerant	Type	R410A				
	Factory charge	kg	22+25x2			
Pipe	Liquid pipe	mm	Ø25.4			
connections <sup>3</sup>	Gas pipe	mm	Ø50.8			
Airflow rate	m <sup>3</sup> /h	73000	72000			
Sound pressure level <sup>4</sup>	dB(A)	68				
Net dimensions (WxHxD)	mm	(1730x1830x850)x3				
Packed dimensions (WxHxD)	mm	(1800x2000x910)x3				
Net weight	kg	430+475x2	475x3			
Gross weight	kg	453+507x2	507x3			
Ambient temp. operating range	Cooling	°C	-5 to 54			
	Heating	°C	-23 to 24			

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.

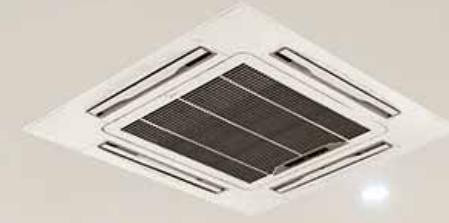
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.

3. Diameters given are those for the pipe connecting the outdoor unit combination to the first indoor branch joint for systems with total equivalent liquid piping lengths of less than 90m. For systems with total equivalent liquid piping lengths of 90m or longer, please refer to the V6 Series Engineering Data Book for connection piping diameters.

4. Sound pressure level is measured at a position 1m in front of the unit and 1.3m above the floor in a semi-anechoic chamber.

## 2<sup>nd</sup> Generation VRF

## DC INDOOR UNITS



**31**

One-way Cassette

**32**

Two-way Cassette

**33**

Compact Four-way  
Cassette

**34**

Four-way Cassette

**35**

Medium Static  
Pressure Duct

**36**

High Static  
Pressure Duct

**37**

Fresh Air  
Processing Unit

**38**

Wall Mounted Unit

**39**

Ceiling / Floor Unit

**40**

Floor Standing Unit

**42**

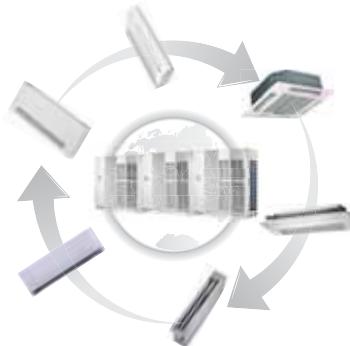
Console



# 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.



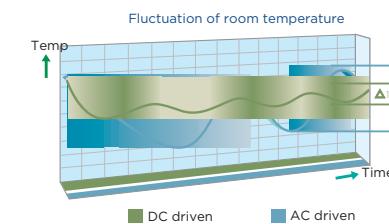
## Quiet Operation

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



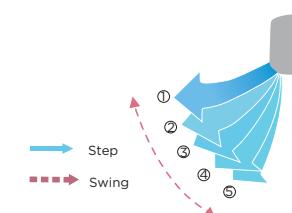
## Constant Level of Indoor Air Temperature

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



## 5-step Swing Louver

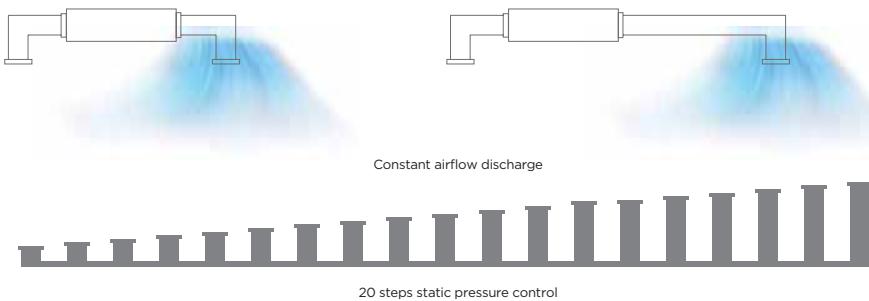
The air is comfortably spread upwards and downwards thanks to the 5-step swing louver that can be programmed via the controller.



# Comfort and Efficiency

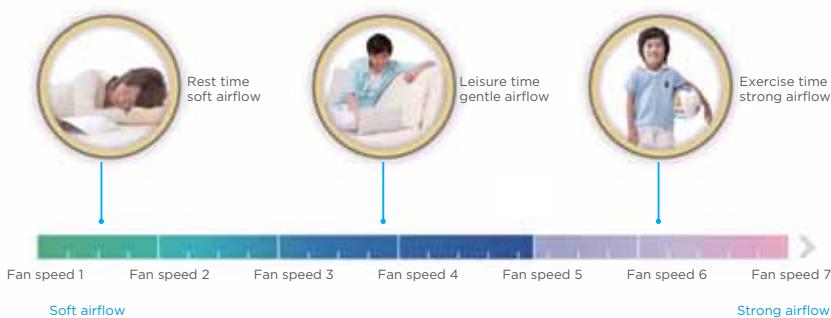
## Static Pressure 20 Steps Control (Duct Unit)

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

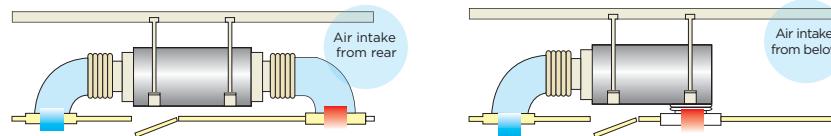
## High-lift Drain Pump

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

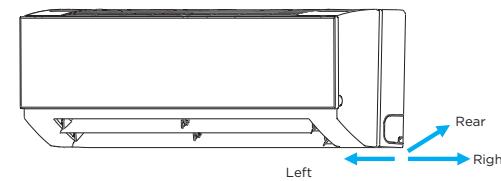


## Flexible Installation

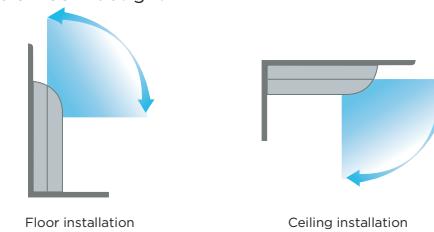
For Medium Static Pressure Duct Units, to provide the flexibility to adapt to differing installation situations, the air inlet may be positioned either on the underside or the rear of the unit.



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



Optional wireless remote controller  
Optional wired controller  
RM12D RM05B WDC-86E/KD WDC-120G/WK

Model	MI2-18Q1DHN1	MI2-22Q1DHN1	MI2-28Q1DHN1	MI2-36Q1DHN1		
Power supply	1-phase, 220-240V, 50/60Hz					
Cooling <sup>1</sup>	Capacity	kW	1.8	2.2	2.8	3.6
		kBtu/h	6.1	7.5	9.6	12.3
Heating <sup>2</sup>	Power input	W	25	25	30	30
	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 <sup>3</sup>	m <sup>3</sup> /h	523/482/448/404/360/312/275		573/531/492/456/420/364/315		
Sound pressure level <sup>4</sup>	dB(A)	37/36/35/34/32/31/30		39/38/37/36/35/34		
Main body	Net dimensions <sup>5</sup> (WxHxD)	mm	1054x153x425			
	Packed dimensions (WxHxD)	mm	1155x245x490			
	Net/Gross weight	kg	11.8/15.3		12.3/15.8	
Panel	Net dimensions (WxHxD)	mm	1180x25x465			
	Packed dimensions (WxHxD)	mm	1232x107x517			
Pipe connections	Net/Gross weight	kg	3.5/5.2			
	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 <sup>1</sup>	Capacity	kW	4.5	5.6	7.1	
		kBtu/h	15.4	19.1	24.2	
Heating <sup>2</sup>	Power input	W	40	48	60	
	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 <sup>3</sup>	m <sup>3</sup> /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 <sup>4</sup>	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 <sup>5</sup> (WxHxD)	mm	1275x189x450			
	Packed dimensions (WxHxD)	mm	1370x295x505			
	Net/Gross weight	kg	16.1/20.4	16.4/20.7	17.6/22.4	
Panel	Net dimensions (WxHxD)	mm	1350x25x505			
	Packed dimensions (WxHxD)	mm	1410x95x560			
Pipe connections	Net/Gross weight	kg	4/5.4			
	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	Φ9.53/Φ15.9	OD Φ32	
	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).
5. Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
6. 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



Optional wireless remote controller  
Optional wired controller  
RM12D RM05B WDC-86E/KD WDC-120G/WK

Model	MI2-22Q2DHN1	MI2-28Q2DHN1	MI2-36Q2DHN1			
Power supply	1-phase, 220-240V, 50/60Hz					
Cooling <sup>1</sup>	Capacity	kW	2.2	2.8	3.6	
		kBtu/h	7.5	9.6	12.3	
Heating <sup>2</sup>	Power input	W	35	40	40	
	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 <sup>3</sup>	m <sup>3</sup> /h	654/612/571/530/488/449/410	725/679/641/591/554/509/458			
Sound pressure level <sup>4</sup>	dB(A)	33/31/30/29/27/25/24	35/33/32/30/29/27/25			
Main body	Net dimensions <sup>5</sup> (WxHxD)	mm	1172x299x591			
	Packed dimensions (WxHxD)	mm	1355x400x675			
	Net/Gross weight	kg	33.5/42.0			
Panel	Net dimensions (WxHxD)	mm	1430x53x680			
	Packed dimensions (WxHxD)	mm	1525x130x765			
Pipe connections	Net/Gross weight	kg	10.5/15			
	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 <sup>1</sup>	Capacity	kW	4.5	5.6	7.1	
		kBtu/h	15.4	19.1	24.2	
Heating <sup>2</sup>	Power input	W	50	69	98	
	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 <sup>3</sup>	m <sup>3</sup> /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 <sup>4</sup>	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 <sup>5</sup> (WxHxD)	mm	1172x299x591			
	Packed dimensions (WxHxD)	mm	1355x400x675			
	Net/Gross weight	kg	35/43.5			
Panel	Net dimensions (WxHxD)	mm	1430x53x680			
	Packed dimensions (WxHxD)	mm	1525x130x765			
Pipe connections	Net/Gross weight	kg	10.5/15			
	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	Φ9.53/Φ15.9	OD Φ32	
	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).
5. Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
6. 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 <sup>1</sup>	Capacity	kW	2.2	2.8	3.6	4.5
		kBtu/h	7.5	9.6	12.3	15.4
Heating <sup>2</sup>	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 <sup>3</sup>		m <sup>3</sup> /h	576/552/524/503/462/441/405	604/573/541/516/478/434/400		
Sound pressure level <sup>4</sup>		dB(A)	35/34/33/29/26/23/22	41/38/35/32/30/29/28		
Main body	Net dimensions <sup>5</sup> (WxHxD)	mm	630x260x570			
	Packed dimensions (WxHxD)	mm	700x330x660			
	Net/Gross weight	kg	18/23.5	19.2/24.7		
Panel	Net dimensions (WxHxD)	mm	647x50x647			
	Packed dimensions (WxHxD)	mm	715x123x715			
	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.

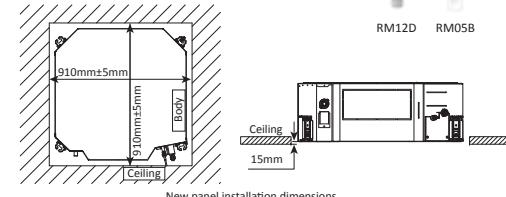
5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

# 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



New panel appearance



Model	MI2-28Q4DHN1	MI2-36Q4DHN1	MI2-45Q4DHN1	MI2-56Q4DHN1	MI2-71Q4DHN1	
Power supply		1 phase, 220-240V, 50/60Hz				
Cooling <sup>1</sup>	Capacity	kW	2.8	3.6	4.5	5.6
		kBtu/h	9.6	12.3	15.4	19.1
Heating <sup>2</sup>	Power input	W	25	25	31	31
	Capacity	kW	3.2	4.0	5.0	6.3
		kBtu/h	10.9	13.6	17.1	21.5
	Power input	W	25	25	31	46
Air flow rate <sup>3</sup>		m <sup>3</sup> /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 <sup>4</sup>		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 <sup>5</sup> (WxHxD)	mm	840x230x840			
	Packed dimensions (WxHxD)	mm	955x260x955			
	Net/Gross weight	kg	21.3/25.8		23.2/27.6	
Panel	Net dimensions (WxHxD)	mm	950x54.5x950			
	Packed dimensions (WxHxD)	mm	1035x90x1035			
	Net/Gross weight	kg	5/8			
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7			
	Drain pipe	mm	Φ9.53/Φ15.9			

Model	MI2-80Q4DHN1	MI2-90Q4DHN1	MI2-100Q4DHN1	MI2-112Q4DHN1	MI2-140Q4DHN1	
Power supply		1 phase, 220-240V, 50/60Hz				
Cooling <sup>1</sup>	Capacity	kW	8.0	9.0	10.0	11.2
		kBtu/h	27.3	30.7	34.1	38.2
Heating <sup>2</sup>	Power input	W	48	75	75	94
	Capacity	kW	9.0	10.0	11.0	12.5
		kBtu/h	30.7	34.1	37.5	42.7
	Power input	W	48	75	75	94
Air flow rate <sup>3</sup>		m <sup>3</sup> /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 <sup>4</sup>		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 <sup>5</sup> (WxHxD)	mm	840x230x840			
	Packed dimensions (WxHxD)	mm	955x260x955			
	Net/Gross weight	kg	23.2/27.6	28.4/33.8	30.7/35.8	
Panel	Net dimensions (WxHxD)	mm	950x54.5x950			
	Packed dimensions (WxHxD)	mm	1035x90x1035			
	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



Optional wireless remote controller  
Optional wired controller  
RM12D RM05B WDC-86E/KD WDC-120G/WK

Model	MI2-22T2DHN1	MI2-28T2DHN1	MI2-36T2DHN1	
Power supply				
Cooling <sup>1</sup>	Capacity kW kBTu/h	2.2 7.5	2.8 9.6	3.6 12.3
Heating <sup>2</sup>	Capacity kW kBTu/h	2.6 8.2	3.2 10.9	4.0 13.6
Power input	W	40	40	45
Air flow rate <sup>3</sup>	m <sup>3</sup> /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 <sup>4</sup>	dB(A)	32/31/29/28/26/25/23	33/32/31/30/28/27/25	
Unit	Net dimensions <sup>5</sup> (WxHxD) Packed dimensions (WxHxD) Net/Gross weight	mm 780x210x500 mm 870x285x525 kg 18/21		
Pipe connections	Liquid/Gas pipe Drain pipe	mm Φ6.35/Φ12.7	OD Φ25	

Model	MI2-45T2DHN1	MI2-56T2DHN1	MI2-71T2DHN1	
Power supply				
Cooling <sup>1</sup>	Capacity kW kBTu/h	4.5 15.4	5.6 19.1	7.1 24.2
Heating <sup>2</sup>	Capacity kW kBTu/h	5.0 17.1	6.3 21.5	8.0 27.3
Power input	W	92	92	98
Air flow rate <sup>3</sup>	m <sup>3</sup> /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 <sup>4</sup>	dB(A)	36/34/32/31/29/27/25	36/34/33/32/30/29/28	37/35/33/32/30/29/28
Unit	Net dimensions <sup>5</sup> (WxHxD) Packed dimensions (WxHxD) Net/Gross weight	mm 1000x210x500 mm 1115x285x525 kg 21.5/25		1220x210x500 mm 1335x285x525 kg 27.5/31.5
Pipe connections	Liquid/Gas pipe Drain pipe	mm Φ6.35/Φ12.7	mm Φ9.53/Φ15.9	OD Φ25

Model	MI2-80T2DHN1	MI2-90T2DHN1	MI2-112T2DHN1	MI2-140T2DHN1
Power supply				
Cooling <sup>1</sup>	Capacity kW kBTu/h	8.0 27.3	9.0 30.7	11.2 38.2
Heating <sup>2</sup>	Capacity kW kBTu/h	9.0 30.7	10.0 34.1	12.5 42.7
Power input	W	110	120	200
Power input	W	110	120	250
Air flow rate <sup>3</sup>	m <sup>3</sup> /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 <sup>4</sup>	dB(A)	37/35/34/33/31/29/28	39/38/37/35/34/33	41/39/38/37/36/35/33
Unit	Net dimensions <sup>5</sup> (WxHxD) Packed dimensions (WxHxD) Net/Gross weight	mm 1230x270x775 mm 1355x350x795 kg 36.5/44.5		mm 1290x300x865 mm 1400x375x925 kg 37/45
Pipe connections	Liquid/Gas pipe Drain pipe	mm Φ9.53/Φ15.9	mm OD Φ25	mm 46.5/55.5

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



Optional wireless remote controller  
Optional wired controller  
RM12D RM05B WDC-86E/KD WDC-120G/WK

Model	MI2-71T1DHN1	MI2-80T1DHN1	MI2-90T1DHN1	
Power supply				
Cooling <sup>1</sup>	Capacity kW kBTu/h	7.1 24.2	8.0 27.3	9.0 30.7
Heating <sup>2</sup>	Capacity kW kBTu/h	8.0 27.3	9.0 30.7	10.0 34.1
Power input	W	180	180	220
Air flow rate <sup>3</sup>	m <sup>3</sup> /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 <sup>4</sup>	dB(A)	46/46/45/45/44/43/42	46/46/45/45/44/43/42	50/49/48/47/46/45
Unit	Net dimensions <sup>5</sup> (WxHxD) Packed dimensions (WxHxD) Net/Gross weight	mm 95x242x690 mm 1090x440x768 kg 41/47		mm 95x242x690 mm 1090x440x768 kg 51/57
Pipe connections	Liquid/Gas pipe Drain pipe	mm Φ9.53/Φ15.9	mm OD Φ25	mm Φ9.53/Φ15.9

Model	MI2-112T1DHN1	MI2-140T1DHN1	MI2-160T1DHN1	
Power supply				
Cooling <sup>1</sup>	Capacity kW kBTu/h	11.2 38.2	14.0 47.8	16.0 54.6
Heating <sup>2</sup>	Capacity kW kBTu/h	12.5 42.7	16.0 54.6	17.0 58.0
Power input	W	380	420	700
Air flow rate <sup>3</sup>	m <sup>3</sup> /h	1886/1775/1695/1614/1528/1429/1354	2258/2127/2033/1927/1818/1781/1707/1601	2608/2501/2354/2239/2099/2013/1879
External static pressure	Pa	100 (30~200)		
Sound pressure level <sup>4</sup>	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 <sup>5</sup> (WxHxD) Packed dimensions (WxHxD) Net/Gross weight	mm 95x242x690 mm 1090x440x768 kg 51/57		mm 95x242x690 mm 1436x450x768 kg 63/70
Pipe connections	Liquid/Gas pipe Drain pipe	mm Φ9.53/Φ15.9	mm OD Φ25	mm Φ9.53/Φ15.9

Model	MI2-200T1DHN1	MI2-250T1DHN1	MI2-280T1DHN1	
Power supply				
Cooling <sup>1</sup>	Capacity kW kBTu/h	20.0 68.2	25.0 85.3	28.0 95.5
Heating <sup>2</sup>	Capacity kW kBTu/h	22.5 76.8	26.0 88.7	31.5 107.5
Power input	W	990	1200	1200
Air flow rate <sup>3</sup>	m <sup>3</sup> /h	4358/4237/4144/4043/3941/3837/3745		
External static pressure	Pa	170 (20~250)		
Sound pressure level <sup>4</sup>	dB(A)		57/56/55/54/53/52/50	
Unit	Net dimensions <sup>5</sup> (WxHxD) Packed dimensions (WxHxD) Net/Gross weight	mm 1440x505x925 mm 1509x550x990 kg 130/142		mm 1440x505x925 mm 1509x550x990 kg 130/142
Pipe connections	Liquid/Gas pipe Drain pipe	mm Φ12.7/Φ22.2	mm Φ12.7/Φ22.2	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



Optional wireless remote controller      Optional wired controller

RM12D      RM05B      WDC-86E/KD      WDC-120G/WK

Model			MI2-125FADHN1	MI2-140FADHN1
Power supply			1 phase, 220-240V, 50/60Hz	
Cooling <sup>1</sup>	Capacity	kW	12.5	14.0
		kBtu/h	42.6	47.8
Heating <sup>2</sup>	Power input	W	370	370
	Capacity	kW	10.5	12.0
		kBtu/h	36.0	41.0
	Power input	W	370	370
Air flow rate <sup>3</sup>			m <sup>3</sup> /h	
			2440/2279/2117/1956/1794/1632/1470	
External static pressure			Pa	
			180 (30~200)	
Sound pressure level <sup>4</sup>			dB(A)	
			52/51/50/50/49/48	
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm	1300x420x690	
	Packed dimensions (WxHxD)	mm	1436x450x768	
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
Power supply			1 phase, 220-240V, 50/60Hz	
Cooling <sup>1</sup>	Capacity	kW	20.0	25.0
		kBtu/h	68.2	85.3
Heating <sup>2</sup>	Power input	W	615	670
	Capacity	kW	18.0	20.0
		kBtu/h	61.4	68.2
	Power input	W	615	670
Air flow rate <sup>3</sup>			m <sup>3</sup> /h	
			3860/3699/3537/3376/3214/3053/2890	
External static pressure			Pa	
			200 (30~250)	
Sound pressure level <sup>4</sup>			dB(A)	
			53/53/52/51/50/50	
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm	1450x505x925	
	Packed dimensions (WxHxD)	mm	1509x550x990	
Net/Gross weight			kg	
			130/142	
Pipe connections	Liquid/Gas pipe	mm	Φ12.7/Φ22.2	
	Drain pipe	mm	OD Φ32	

Notes:

1. Outdoor temperature 33°C DB, 28°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Outdoor temperature 0°C DB, -2.9°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.

The Fresh Air Processing Unit can be used either independently or in conjunction with other types of indoor unit. If used independently, the total capacity of the Fresh Air Processing Units must be between 50% and 100% of that of the outdoor units. If used in conjunction with other types of indoor unit, the total capacity of the indoor units and Fresh Air Processing Units must be between 50% and 100% of that of the outdoor units and the total capacity of the Fresh Air Processing Units must not exceed 30% of that of the outdoor units.

# 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



Optional wireless remote controller      Optional wired controller

RM12D      RM05B      WDC-86E/KD      WDC-120G/WK

Model		MI2-22GDHN1	MI2-28GDHN1
Power supply			1 phase, 220-240V, 50/60Hz
Cooling <sup>1</sup>	Capacity	kW	2.2
		kBtu/h	7.5
	Power input	W	28
Heating <sup>2</sup>	Capacity	kW	2.4
		kBtu/h	8.2
	Power input	W	28
Air flow rate <sup>3</sup>	m <sup>3</sup> /h	422/411/402/393/380/368/356	
Sound pressure level <sup>4</sup>	dB(A)	31/30/30/30/29/29/29	
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm	835x280x203
	Packed dimensions (WxHxD)	mm	935x385x320
	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 <sup>1</sup>	Capacity	kW	3.6	4.5
		kBtu/h	12.3	15.4
	Power input	W	30	40
Heating <sup>2</sup>	Capacity	kW	4.0	5.0
		kBtu/h	13.6	17.1
	Power input	W	40	45
Air flow rate <sup>3</sup>	m <sup>3</sup> /h	656/628/591/573/544/515/488		594/563/535/507/478/450/424
Sound pressure level <sup>4</sup>	dB(A)	33/32/32/31/31/30/30		35/34/33/33/32/31/31
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm	990x315x223	
	Packed dimensions (WxHxD)	mm	1085x420x335	
	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 <sup>1</sup>	Capacity	kW	7.1	8.0
		kBtu/h	24.2	27.3
	Power input	W	55	55
Heating <sup>2</sup>	Capacity	kW	8.0	9.0
		kBtu/h	27.3	30.7
	Power input	W	55	55
Air flow rate <sup>3</sup>	m <sup>3</sup> /h	1195/1130/1065/1005/940/875/809		1195/1130/1065/1005/940/875/809
Sound pressure level <sup>4</sup>	dB(A)	44/43/42/39/38/37/36		44/43/42/39/38/37/36
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm	1194x343x262	
	Packed dimensions (WxHxD)	mm	1290x375x460	
	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



RM12D RM05B WDC-86E/KD WDC-120G/WK



Model	MI2-36LDHN1	MI2-45LDHN1	MI2-56LDHN1	MI2-71LDHN1		
Power supply						
Cooling <sup>1</sup>	Capacity	kW	3.6	4.5	5.6	7.1
		kBtu/h	12.3	15.4	19.1	24.2
Heating <sup>2</sup>	Capacity	kW	4.0	5.0	6.3	8.0
		kBtu/h	13.6	17.1	21.5	27.3
Air flow rate <sup>3</sup>	m <sup>3</sup> /h	550/525/500/480/460/440/420	930/895/860/830/792/755/720			
Sound pressure level <sup>4</sup>	dB(A)	40/39/38/37/36/36	43/42/41/41/39/38/38			
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm	990x660x203			
	Packed dimensions (WxHxD)	mm	1089x744x296			
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	MI2-80LDHN1	MI2-90LDHN1	MI2-112LDHN1	MI2-140LDHN1		
Power supply						
Cooling <sup>1</sup>	Capacity	kW	8.0	9.0	11.2	14.0
		kBtu/h	27.2	30.7	38.2	47.8
Heating <sup>2</sup>	Capacity	kW	9.0	10.0	12.5	15.0
		kBtu/h	30.7	34.1	42.7	51.2
Air flow rate <sup>3</sup>	m <sup>3</sup> /h	1280/1245/1210/1170/1130/1085/1050	1890/1830/1765/1700/1660/1620/1580			
Sound pressure level <sup>4</sup>	dB(A)	45/44/43/43/42/41/40	47/46/45/45/44/43/42			
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm	1280x660x203	1670x680x244		
	Packed dimensions (WxHxD)	mm	1379x744x296	1915x760x330		
Net/Gross weight	kg	35/41	48/58			
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9	OD Φ16		
	Drain pipe	mm				

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



RM12D RM05B WDC-86E/KD WDC-120G/WK



Model	MI2-22F3DHN1	MI2-28F3DHN1		
Power supply				
Cooling <sup>1</sup>	Capacity	kW	2.2	2.8
		kBtu/h	7.5	9.6
Heating <sup>2</sup>	Power input	W	40	45
	Capacity	kW	2.4	3.2
		kBtu/h	8.2	10.9
	Power input	W	40	45
Air flow rate <sup>3</sup>	m <sup>3</sup> /h	530/504/478/456/439/418/400	569/540/515/485/462/443/421	
Sound pressure level <sup>4</sup>	dB(A)	36/35/34/33/31/30/29	36/35/34/33/31/30/29	
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm	840x545x212	
	Packed dimensions (WxHxD)	mm	925x639x305	
	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				
Cooling <sup>1</sup>	Capacity	kW	3.6	4.5
		kBtu/h	12.3	15.4
Heating <sup>2</sup>	Power input	W	55	60
	Capacity	kW	4.0	5.0
		kBtu/h	13.6	17.1
	Power input	W	55	60
Air flow rate <sup>3</sup>	m <sup>3</sup> /h	624/591/557/522/473/420/375	660/625/583/542/501/475/440	
Sound pressure level <sup>4</sup>	dB(A)	37/36/35/34/32/31/30	37/36/35/34/32/31/30	
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm	1036x639x305	
	Packed dimensions (WxHxD)	mm	1125x639x305	
	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					
Cooling <sup>1</sup>	Capacity	kW	5.6	7.1	8.0
		kBtu/h	19.1	24.2	27.3
Heating <sup>2</sup>	Power input	W	88	110	130
	Capacity	kW	6.3	8.0	9.0
		kBtu/h	21.5	27.3	30.7
	Power input	W	88	110	130
Air flow rate <sup>3</sup>	m <sup>3</sup> /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 <sup>4</sup>	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 <sup>5</sup> (WxHxD)	mm	1340x545x212		
	Packed dimensions (WxHxD)	mm	1425x639x305		
	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).

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 (Exposed)

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



Model	MI2-22F4DHN1		MI2-22F5DHN1	
	MI2-22F5DHN1		MI2-28F4DHN1	
1 phase, 220-240V, 50/60Hz				
Power supply		kW	2.2	2.8
Cooling <sup>1</sup>	Capacity	kBtu/h	7.5	9.6
	Power input	W	40	45
Heating <sup>2</sup>	Capacity	kW	2.4	3.2
	Power input	kBtu/h	8.2	10.9
Air flow rate <sup>3</sup>	m <sup>3</sup> /h	530/504/478/456/439/418/400	569/540/515/485/462/443/421	
Sound pressure level <sup>4</sup>	dB(A)	36/35/34/33/31/30/29	36/35/34/33/31/30/29	
1000x596x225				
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm (F4)	1000x677x220	
		mm (F5)	1089x683x312	
	Packed dimensions (WxHxD)	mm (F4)	1182x683x312	
		mm (F5)	28/33	
Net/Gross weight				
	kg (F4)	kg (F5)	28/35	
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	
	Drain pipe	mm	Φ16	

Model	MI2-36F4DHN1		MI2-45F4DHN1	
	MI2-36F5DHN1		MI2-45F5DHN1	
1 phase, 220-240V, 50/60Hz				
Power supply		kW	3.6	4.5
Cooling <sup>1</sup>	Capacity	kBtu/h	12.3	15.4
	Power input	W	55	60
Heating <sup>2</sup>	Capacity	kW	4.0	5.0
	Power input	kBtu/h	33.6	37.1
Air flow rate <sup>3</sup>	m <sup>3</sup> /h	624/591/557/522/473/420/375	660/625/583/542/501/475/440	
Sound pressure level <sup>4</sup>	dB(A)	37/36/35/34/32/31/30	37/36/35/34/32/31/30	
1200x596x225				
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm (F4)	1200x677x220	
		mm (F5)	1289x683x312	
	Packed dimensions (WxHxD)	mm (F4)	1382x683x312	
		mm (F5)	33/40/7	
Net/Gross weight				
	kg (F4)	kg (F5)	33/40/7	
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	
	Drain pipe	mm	Φ16	

Model	MI2-56F4DHN1		MI2-71F4DHN1		MI2-80F4DHN1	
	MI2-56F5DHN1		MI2-71F5DHN1		MI2-80F5DHN1	
1 phase, 220-240V, 50/60Hz						
Power supply		kW	5.6	7.3	8.0	
Cooling <sup>1</sup>	Capacity	kBtu/h	19.1	24.2	27.3	
	Power input	W	88	110	130	
Heating <sup>2</sup>	Capacity	kW	6.3	8.0	9.0	
	Power input	kBtu/h	21.5	27.3	30.7	
Air flow rate <sup>3</sup>	m <sup>3</sup> /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 <sup>4</sup>	dB(A)	41/39/37/35/33/32/31	44/42/40/39/37/35/33	44/42/40/39/37/35/33		
1500x596x320						
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm (F4)	1500x677x320			
		mm (F5)	1589x683x312			
	Packed dimensions (WxHxD)	mm (F4)	1682x683x312			
		mm (F5)	40/46			
Net/Gross weight						
	kg (F4)	kg (F5)	40.4/48.6	41.5/47.5	41.5/49.5	
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9			Φ6.35/Φ12.7
	Drain pipe	mm	Φ16			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.

# 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	
	MI2-22ZDHN1		MI2-28ZDHN1		MI2-36ZDHN1		MI2-45ZDHN1	
1 phase, 220-240V, 50/60Hz								
Power supply		kW	2.2	2.8	3.6	4.5		
Cooling <sup>1</sup>	Capacity	kBtu/h	7.5	9.6	12.3	15.4		
	Power input	W	20	25	25	35		
Heating <sup>2</sup>	Capacity	kW	2.6	3.2	4.0	5.0		
	Power input	kBtu/h	8.9	10.9	13.4	17.1		
Air flow rate <sup>3</sup>	m <sup>3</sup> /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 <sup>4</sup>	dB(A)	38/36/34/32/28/27/26	39/37/35/33/31/29/27	42/41/40/39/37/36/36				
700x600x210								
Unit	Net dimensions <sup>5</sup> (WxHxD)	mm					810x710x305	
	Packed dimensions (WxHxD)	mm						
	Net/Gross weight	kg	14/19				15/20	
Liquid/Gas pipe								
Pipe connections	Liquid/Gas pipe	mm						
	Drain pipe	mm						

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

**47**  
Wireless Remote  
Controllers

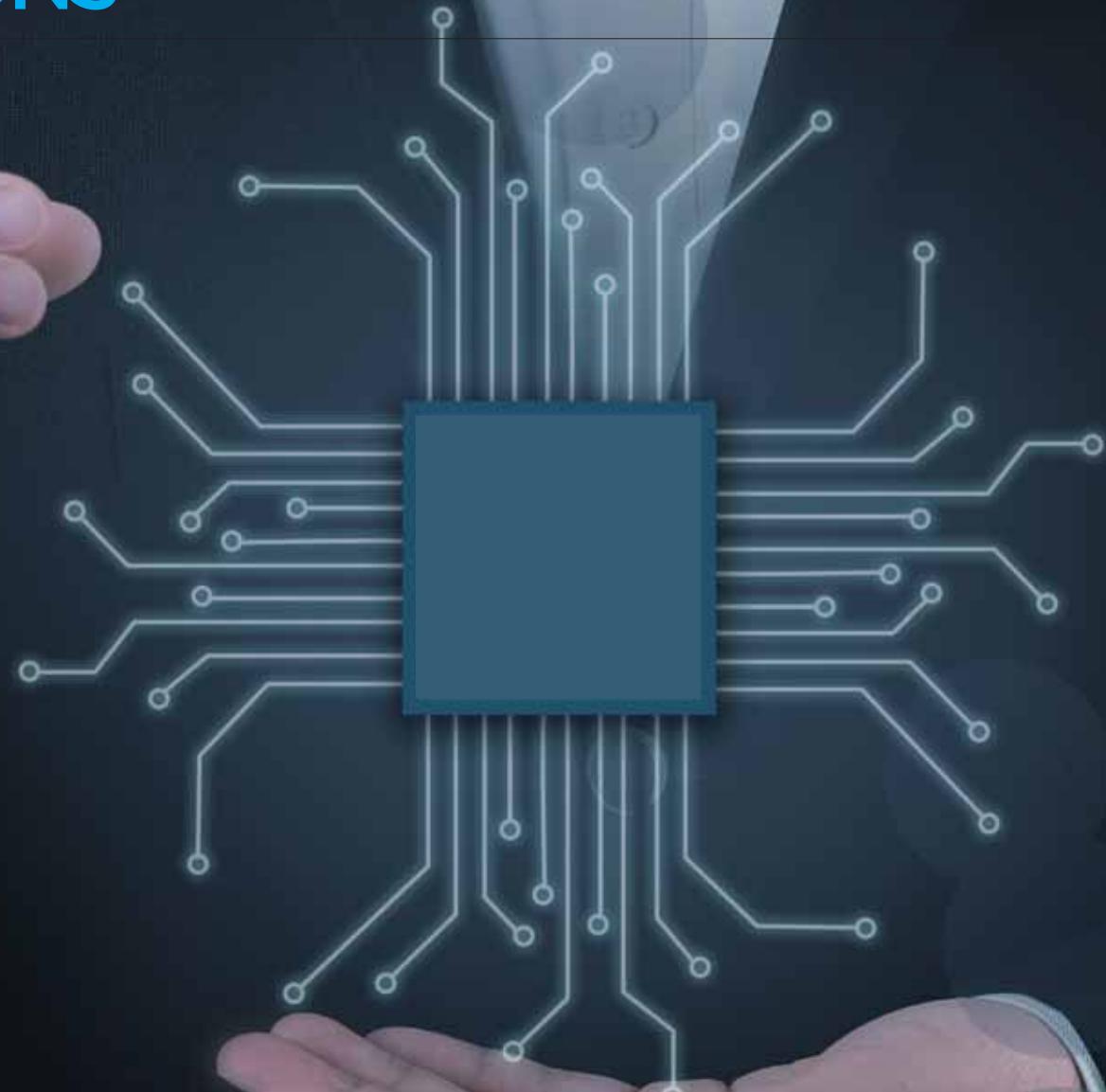
**55**  
Centralized  
Controllers

**67**  
BMS Gateways

**51**  
Wired  
Controllers

**61**  
Network  
Control System

**75**  
Accessories



# CONTROLLER LINEUP

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

# 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	

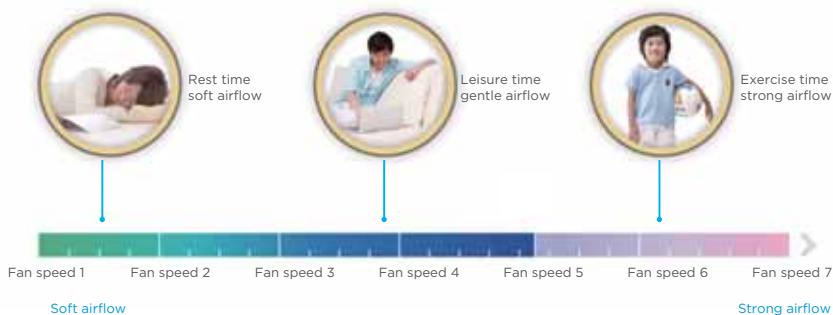
## Temperature Setting

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.



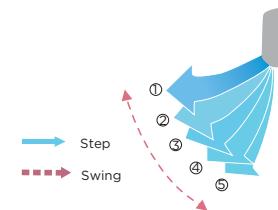
## Display Shut-off

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	18V DC	5V DC	18V DC

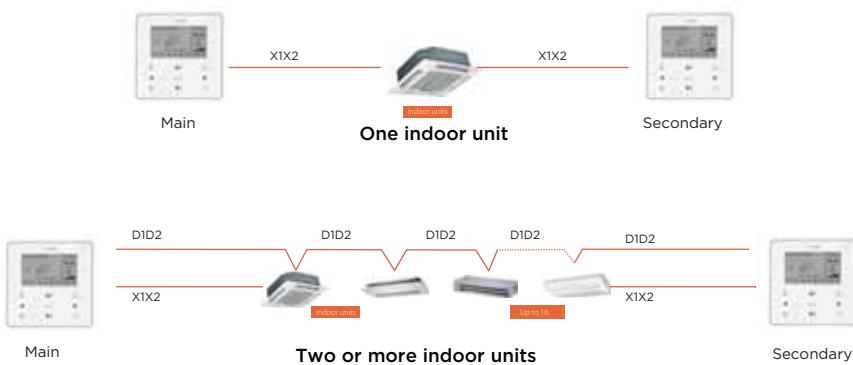
## Group Control

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



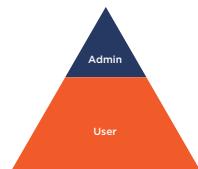
## Main or Secondary Controller Setting

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.



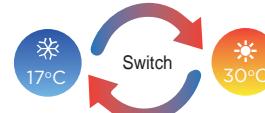
## Extension Function

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



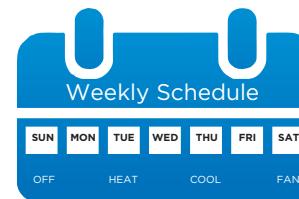
## Dual Temperature Set Points

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 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	Error report	Error report, operation record and electricity consumption report
Report display		
Operation log	—	●
LAN access	—	●
languages supported	English, French, Spanish	English, French, Spanish
Dimensions (W×H×D) (mm)	182x123x34	270x183x27
Power supply	12V DC	24V AC

## Touch Screen

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



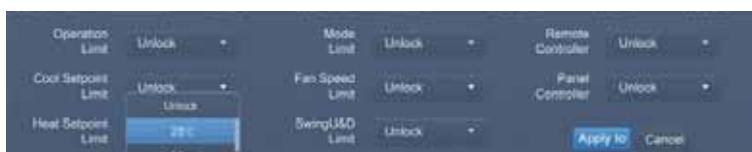
## Electricity Charge Distribution

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.



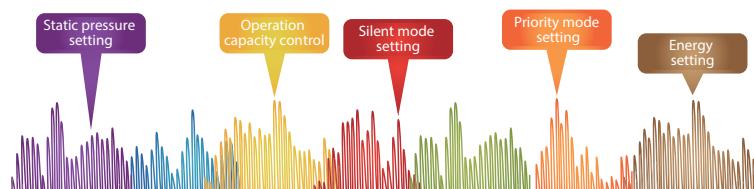
## Group Management

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.



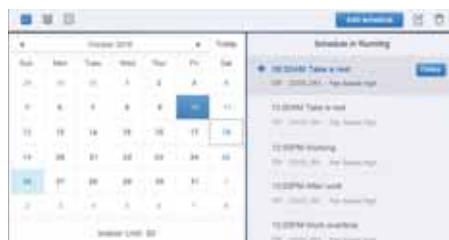
## Unit Model Recognition

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.



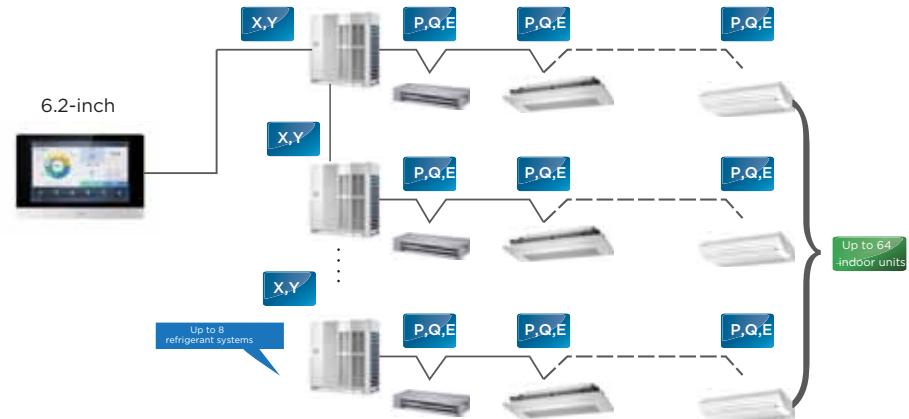
## LAN Access

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		
Max. number per IMM system	10	10
Max. number of indoor units	2560	3840
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.

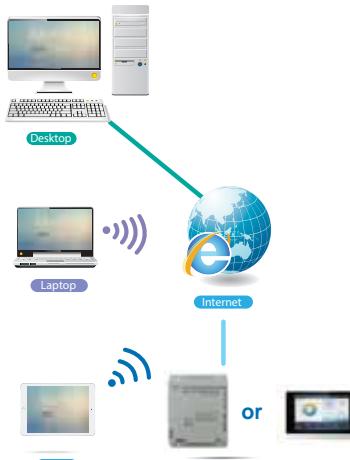


## Xpress Installation

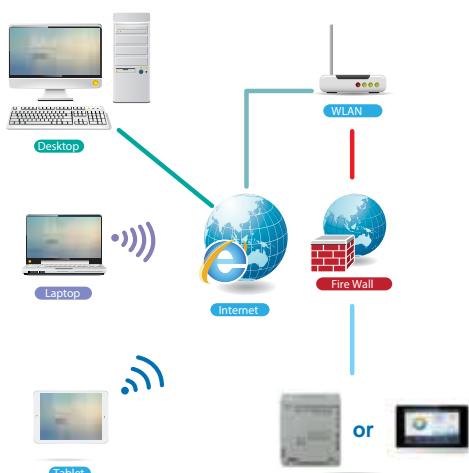
With the Xpress Installation wizard, IMMPRO can be installed quickly and easily without requiring support from a technical support engineer.



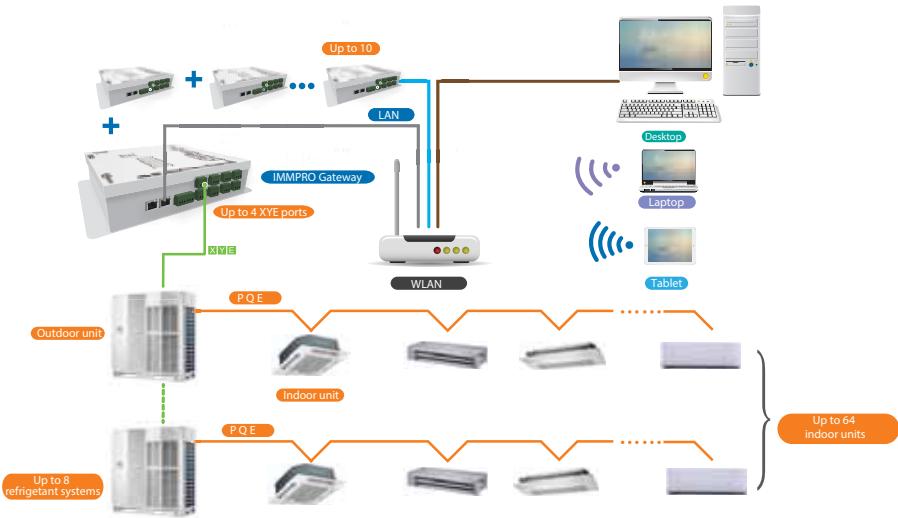
## Network Flexibility



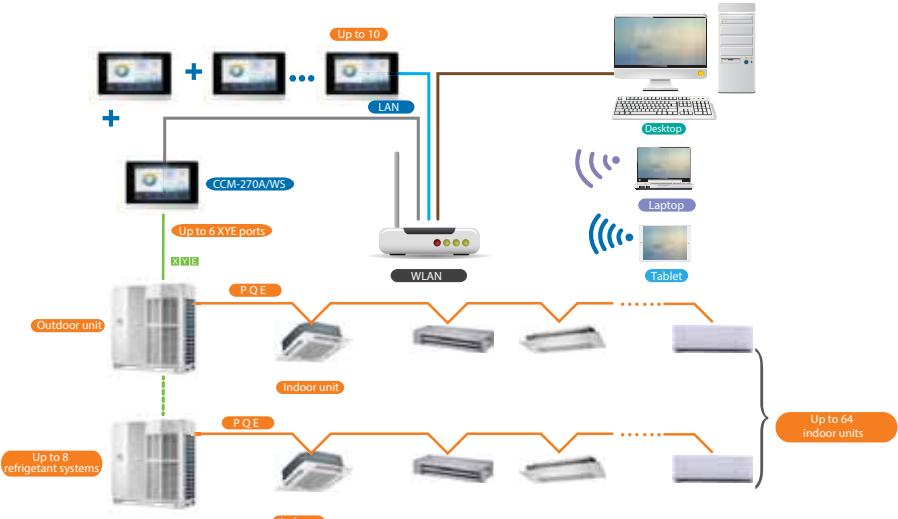
LAN access



Remote VPN access



IMMP-M



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.





## BACnet® Gateway

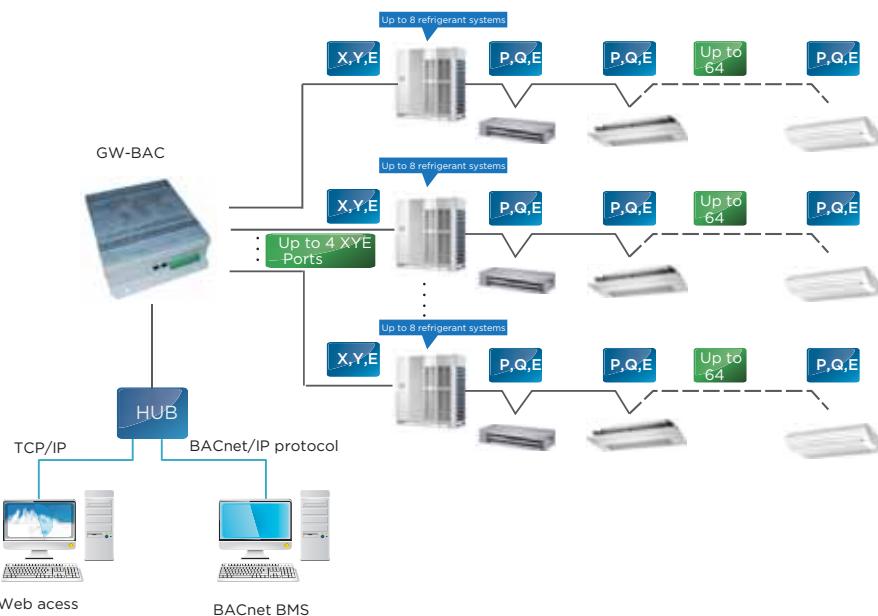
GW-BAC

### Full Integration

The GW-BAC Gateway allows Midea VRV 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' XYE ports directly.



### Features

Model	GW-BAC	
Max. number of indoor units	256	
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	●
LAN access	Error alarms	●
	Operating mode	●
	Outdoor ambient temperature	●
BTL certification	Fan speed	●
	Compressor operating frequency	●
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



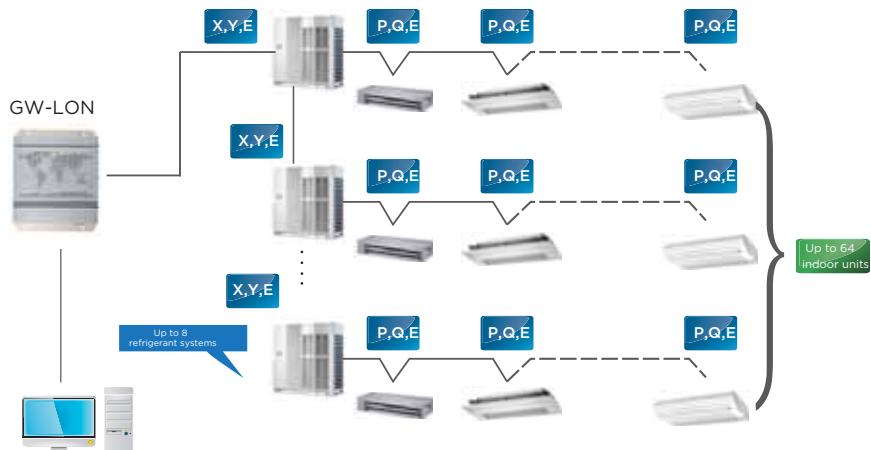
## LonWorks® Gateway

GW-LON

### 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



LonWorks BMS

### Features

Model	GW-LON
Max. number of indoor units	64
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
Outdoor unit monitoring	Room temperature
	Error status
Dimensions (HxWxD)( mm)	319x251x61
Power supply	1 phase, 100-240V, 50/60Hz



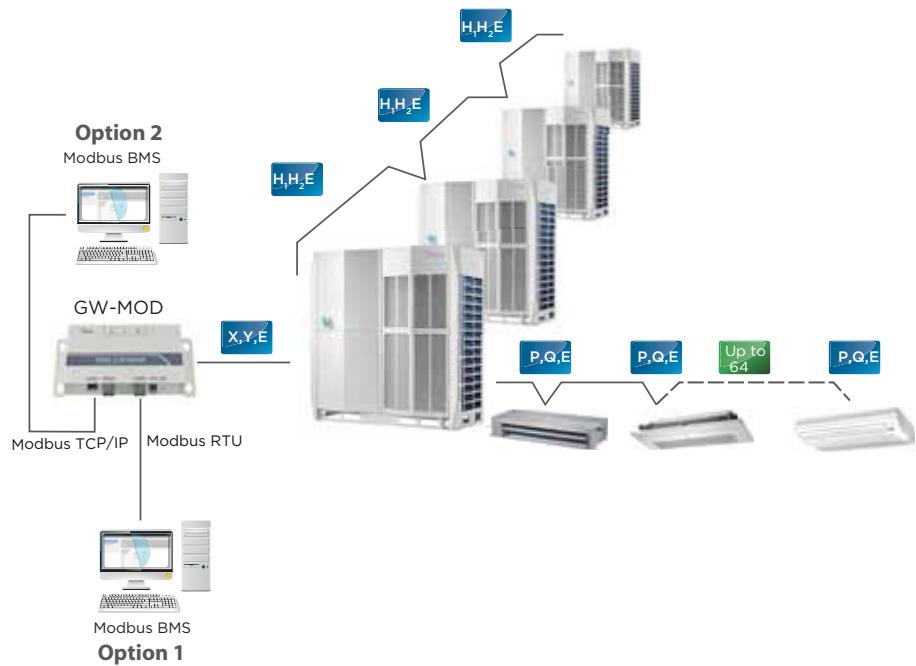
## Modbus® Gateway

GW-MOD

### Full Integration

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

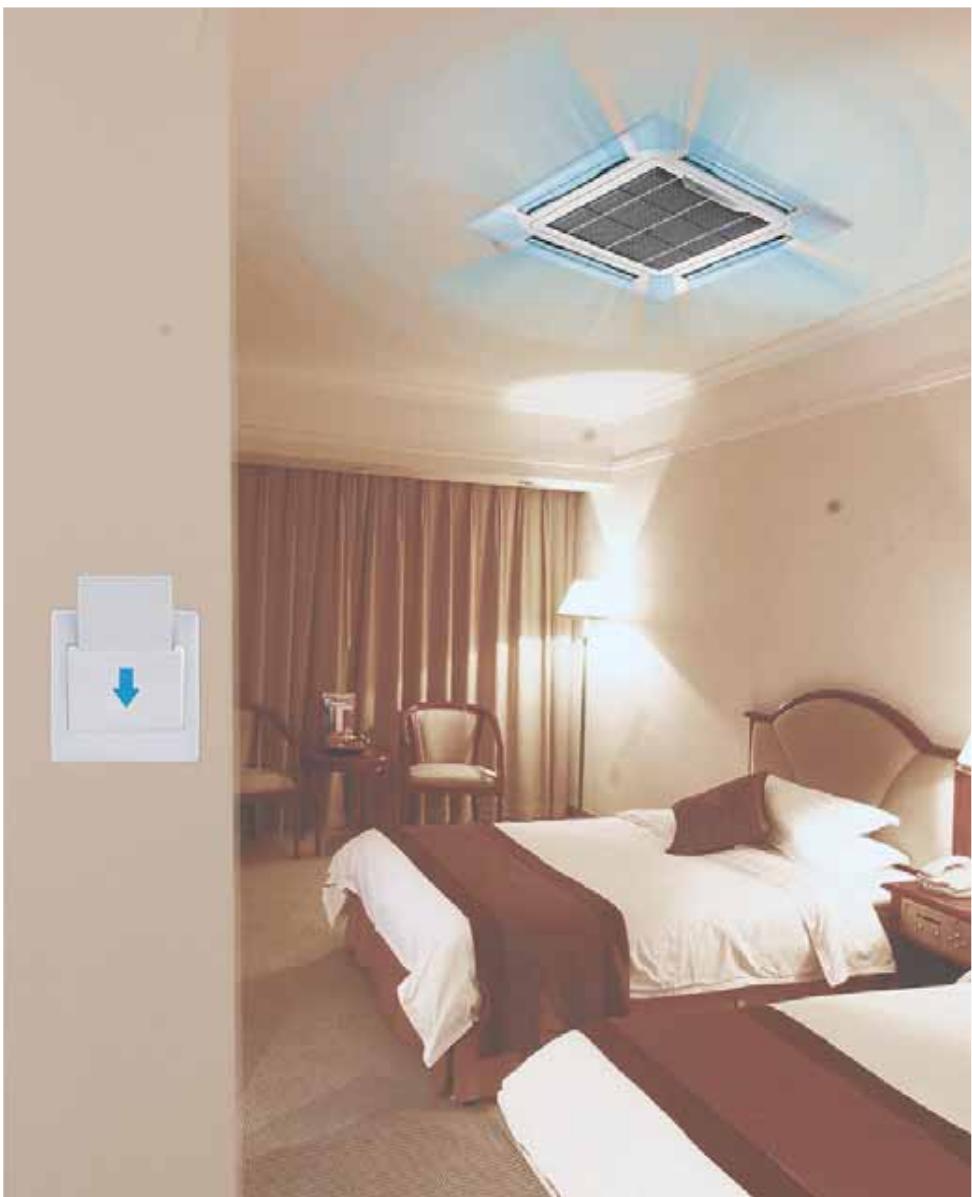
### Network Flexibility



### Features

Model	GW-MOD
Max. number of indoor units	64
Max. number of 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



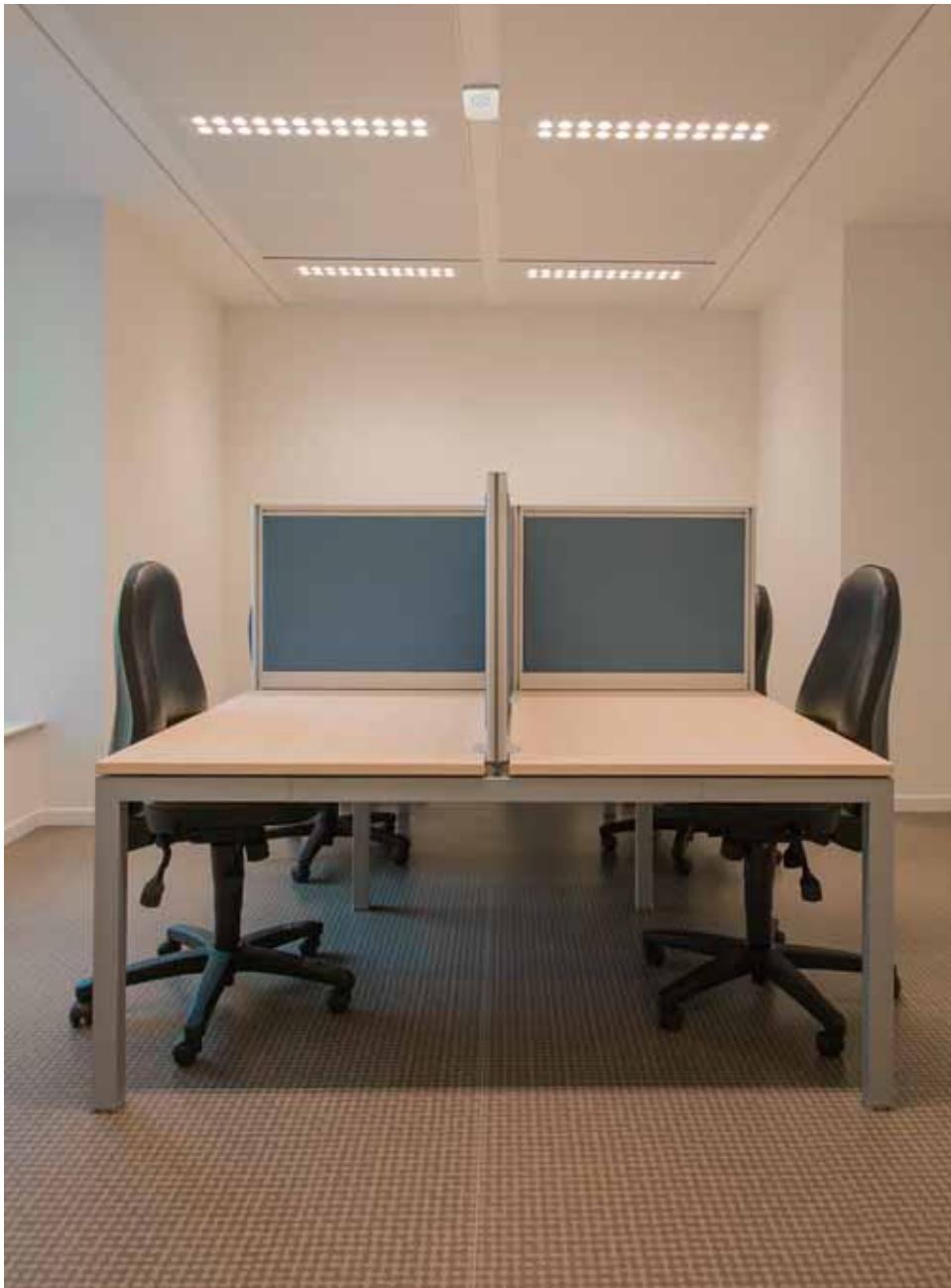
## Full Integration

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 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	
Languages 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.



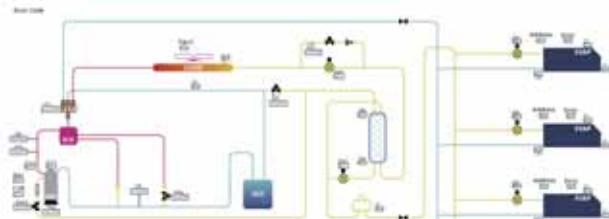
## Use-friendly Interface

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.

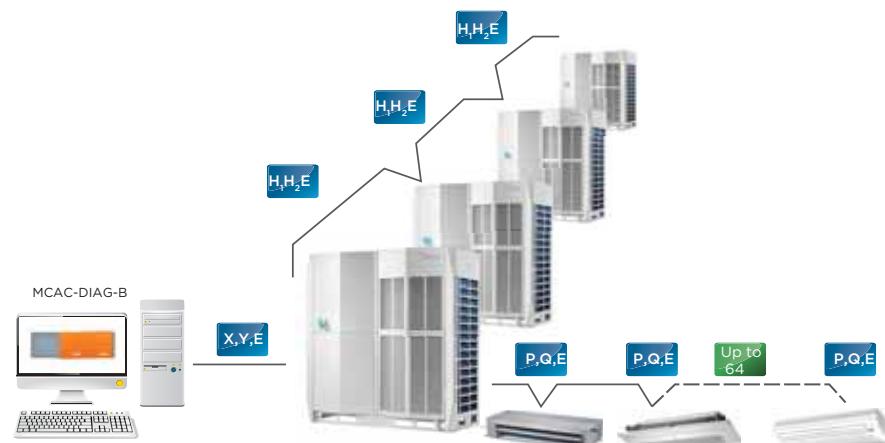


## Data Logs

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.



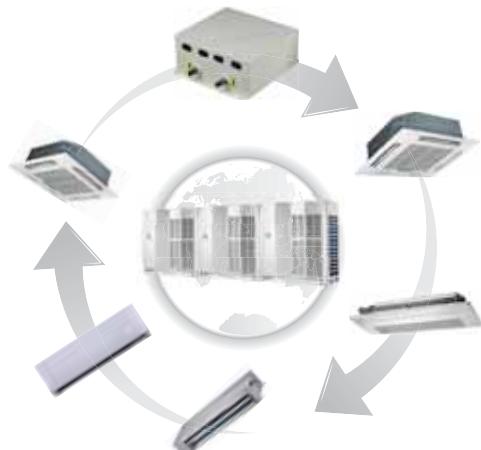
## Wide Capacity Range

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

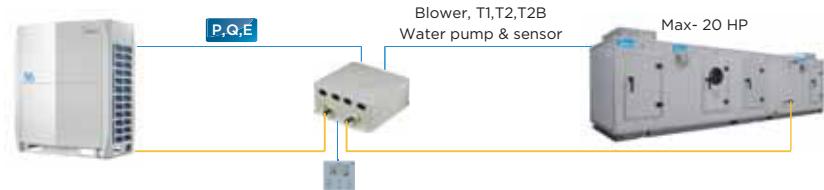


## Compatible with All VRF Systems

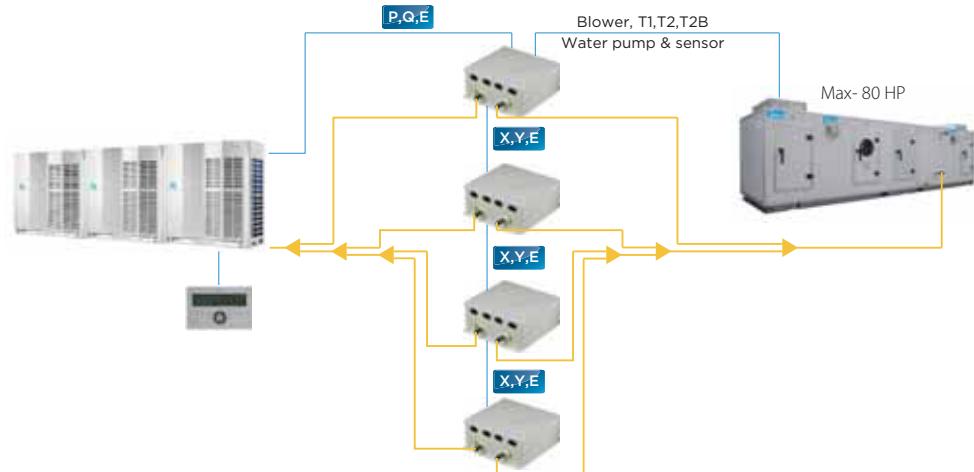
AHU kits are compatible with all Midea VRF outdoor units and can be used together with all types of Midea VRF indoor units.



## Single AHU Control Box Connection



## Multi AHU Control Boxes Connection



## Specifications

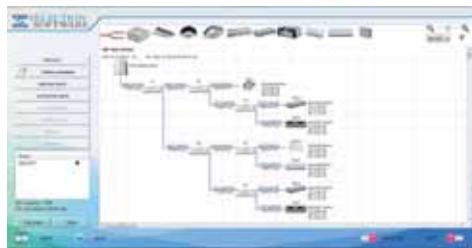
Model	AHUKZ-01B	AHUKZ-02B	AHUKZ-03B
Capacity	3.2-6	8-12	14-20
Power supply		1 phase, 208-230V, 60Hz	
Refrigerant		R410A	
Pipe connections (inlet and outlet)	mm Φ8	mm Φ12.7	mm Φ15.9
Net dimensions (WxHxD)	mm 350x150x375		
Packed dimensions (WxHxD)	mm 420x240x490		
Net weight	kg 8.4	kg 8.7	kg 8.9
Gross weight	kg 11.4	kg 11.7	kg 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

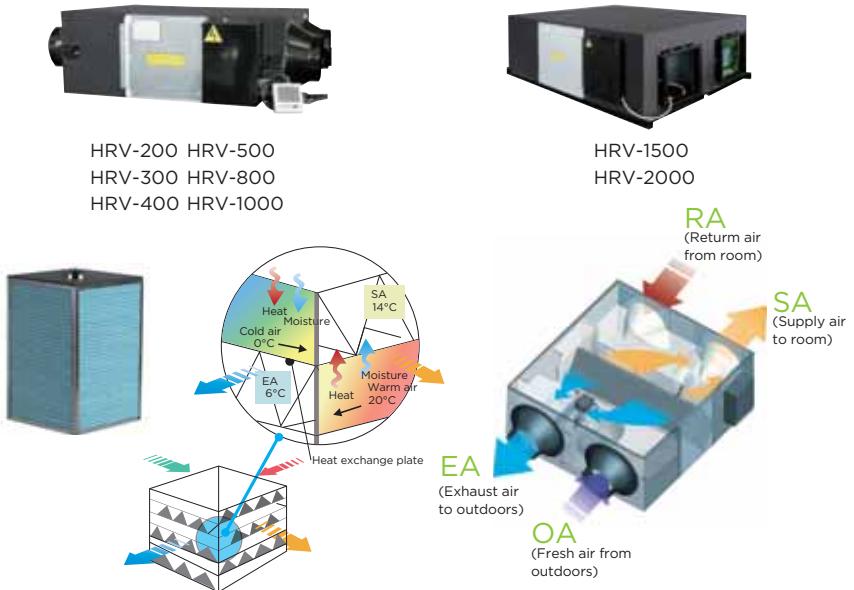
# HEAT RECOVERY VENTILATOR

## 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%.



## Low Noise

Soundproofing is used to guarantee quiet operation.

## Flexibility

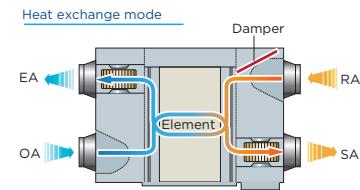
Heights starting from as little as 264mm and weights from as little as 23kg mean that the Midea HRV can be easily installed even where space is limited.



## Multiple Modes

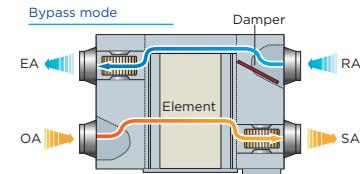
### Heat exchange mode

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.

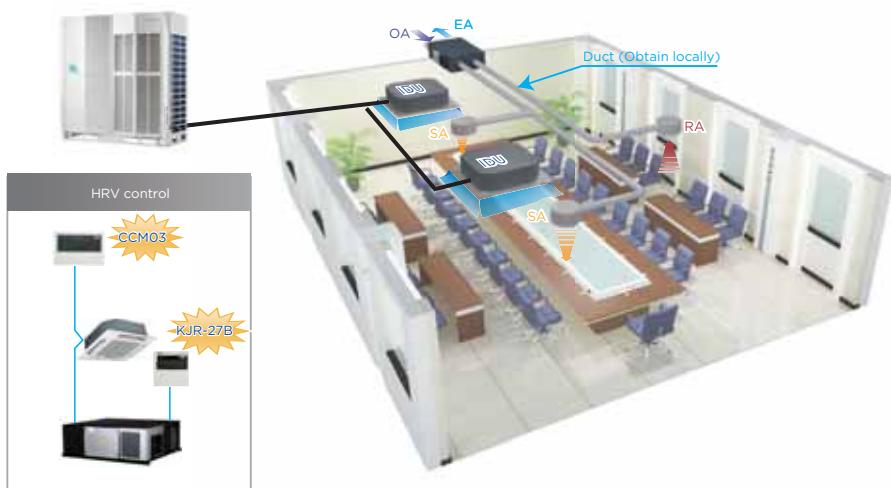
### Exhaust mode

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 <sup>3</sup> /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	866x655x264	944x722x270	944x927x270	1038x1026x270
Packed dimensions (WxDxH)	mm	960x770x445	1020x810x452	1020x1020x452	1120x1120x452
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 <sup>3</sup> /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	346x326	346x326
Net dimensions (WxDxH)	mm	1286x1006x388	1286x1256x388	1600x1270x540	1650x1470x540
Packed dimensions (WxDxH)	mm	1380x1100x573	1400x1370x573	1710x1410x720	1760x1610x720
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 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 <sup>3</sup> /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	852x665x264	928x734x270	928x940x270	1020x1036x270
Packed dimensions (WxDxH)	mm	910x710x430	980x774x435	1010x1010x440	1120x1120x452
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 <sup>3</sup> /h	800	1000	1500	2000
External static pressure	Pa	100	100	160	170
Motor type		DC			
Duct dimensions	mm	Φ242	Φ242	346x326	346x326
Net dimensions (WxDxH)	mm	1276x1020x388	1276x1269x388	1600x1270x540	1650x1470x540
Packed dimensions (WxDxH)	mm	1355x1045x560	1400x1370x573	1710x1410x720	1760x1610x720
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 3 airflow setting.

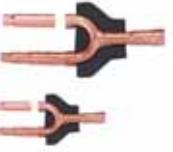
2. Sound level is measured 1.4m below the center of the unit in an semi-anechoic chamber.

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.

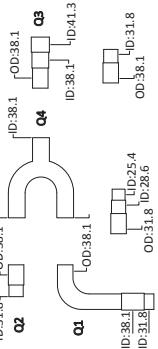
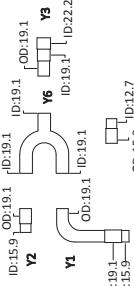
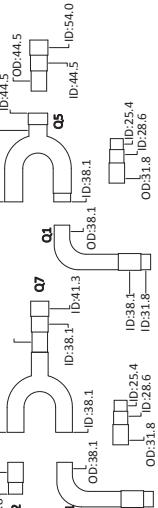
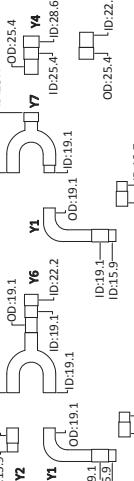
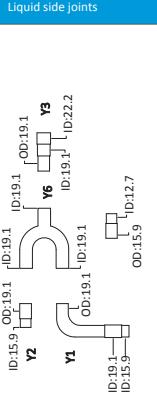
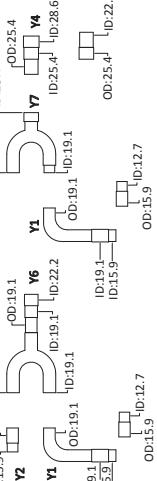
Heating: exhaust air temp 21°C DB, 13°C WB; fresh air temp. 5°C DB, 2°C WB.

# 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	/

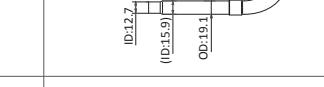
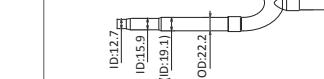
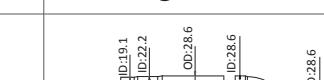
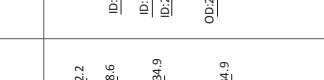
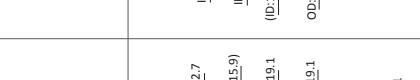
## Dimensions

### Outdoor Branch Joints

Model	Gas side joints	Liquid side joints
FQZHW-02N1E		
FQZHW-03N1E		
		

## 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	