

### Commercial Air Conditioners 2018/2019





Android Versior



iOS Version

#### **Commercial Air Conditioner Division**

#### Midea Group

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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.

OS Version



# SERIES VRF

### Midea CAC

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

We have three production bases: Shunde, Chongqing and Hefei. MCAC Shunde: 38 product lines focusing on VRF, Split Products, Heat Pump Water Heaters, and AHU/FCU. MCAC Chongqing: 14 product lines focusing on Water Cooled Centrifugal/Screw/Scroll Chillers, Air Cooled Screw/Scroll Chillers, and AHU/FCU. MCAC Hefei: 11 product lines focusing on VRF, Chillers, and Heat Pump Water Heaters.



Midea CAC Introduction



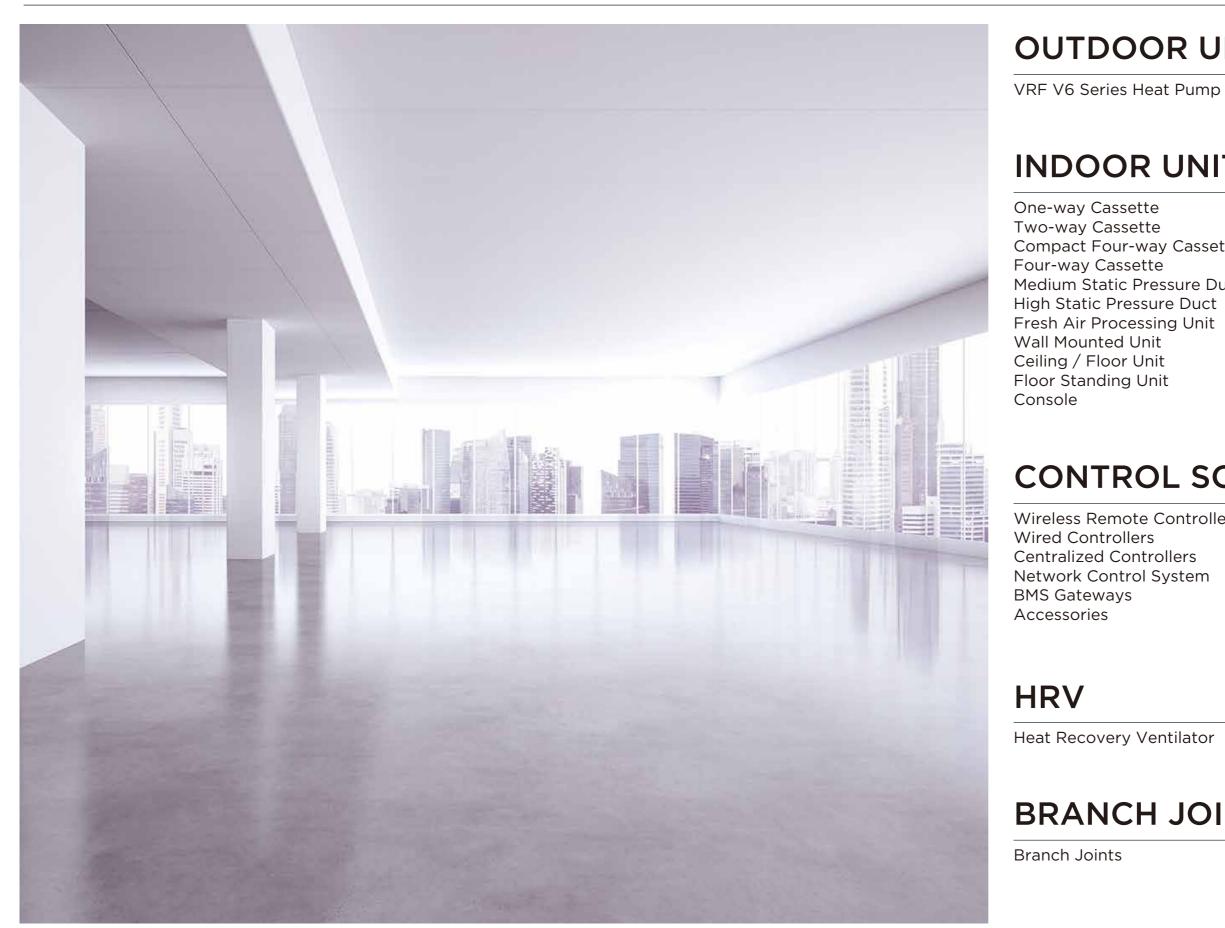
2016 >> Acquired 80% stake in Clivet 2014-2015 ≫ Win FIFA World Cup Stadiums project in Brazil Beira Rio, Olympic Games Stadiums project in Brazil Rio de Janeiro and Africa games Stadiums project in Congo Brazzaville successively 2014 >> Launched the All DC Inverter V5X globally, outstanding product 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

1999 >>> Entered the CAC field

### **MIDEA GROUP** FORTUNE GLOBAL FORTUNE 500

2017 >>> Launched the All DC Inverter V6 VRF globally, leading in VRF market





### **OUTDOOR UNITS**

### **INDOOR UNITS**

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### **CONTROL SOLUTIONS**

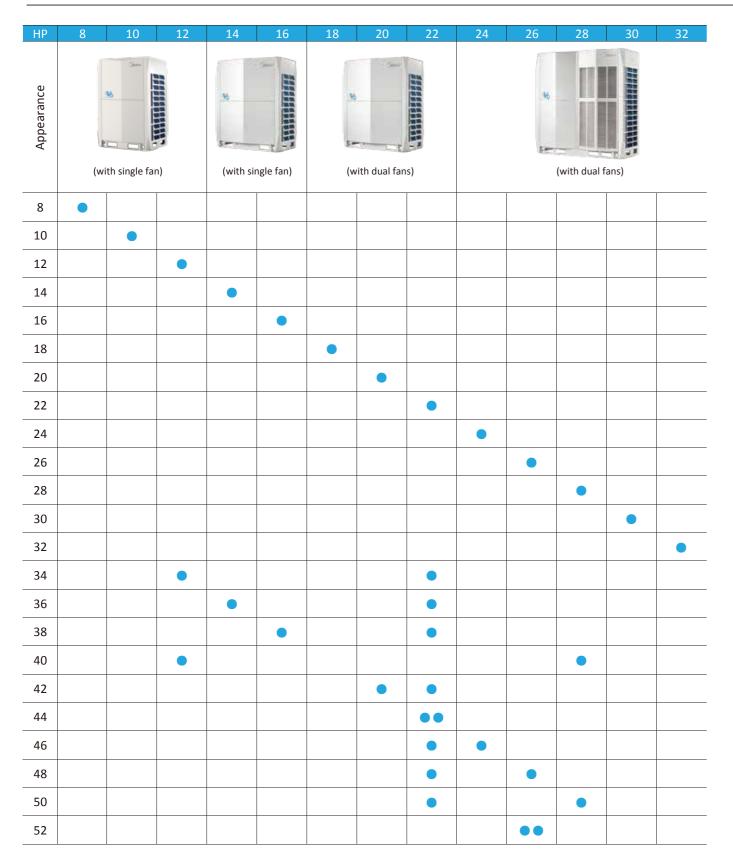
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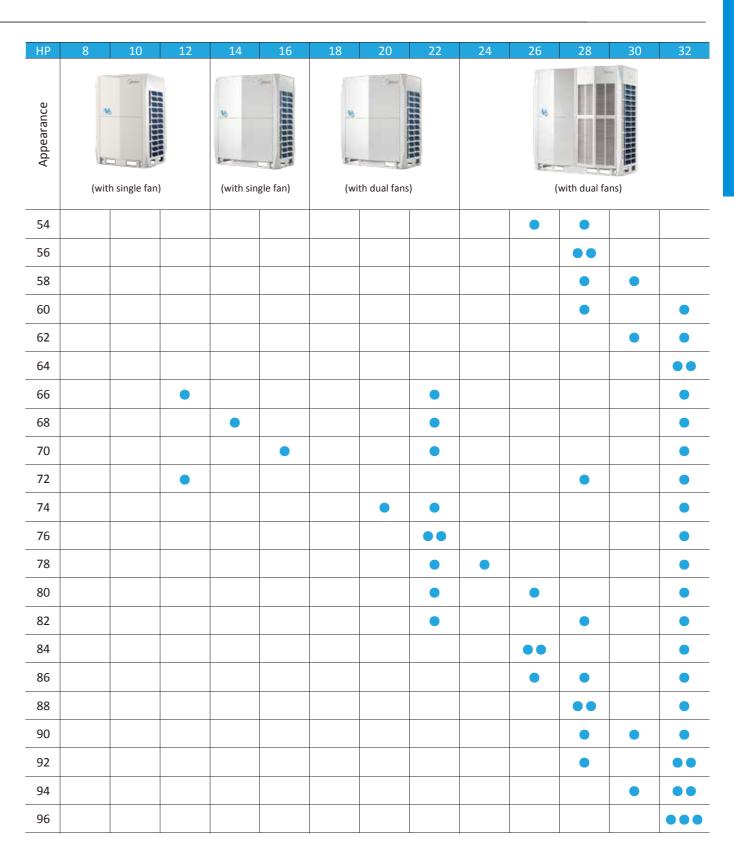
### **BRANCH JOINTS**

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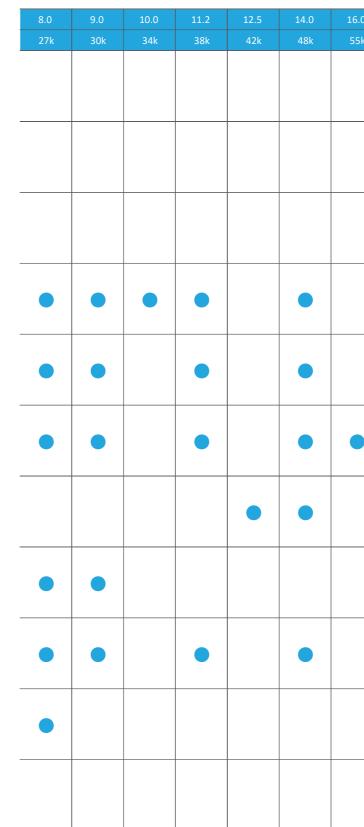
# OUTDOOR UNIT LINEUP





# **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.

0	20.0	25.0	28.0	40.0*	45.0 <sup>*</sup>	56.0 <sup>*</sup>
u k	20.0 68k	25.0 85k	28.0 96k	40.0 136k	45.0 154k	191k
	•	•	•			
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# OUTDOOR UNITS

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### **3 Unique Innovations**

# **High Efficiency**

### Energy Management System (EMS)

• Floating refrigerant temperature to balance comfort and efficiency

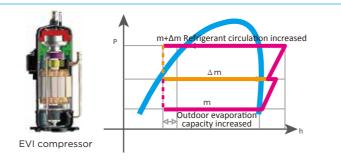
The evaporating temperature (in cooling) and condensing temperature (in heating) are automatically adjusted according to both indoor and outdoor temperature to maximize the comfort and energy efficiency.

• 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% 40% 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**

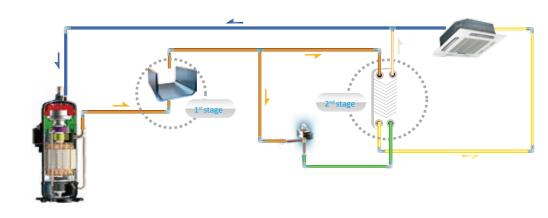
Triple (local/remote/network) configurations greatly simplified installation, commissioning and servicing.

- 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 Progateway via a LAN connection.



### Plate Heat Exchanger (PHE) Subcooling

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

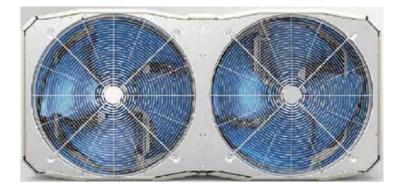


### High Efficiency G-Type Heat Exchanger

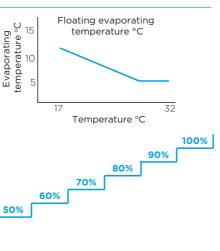
24-32HP units use a high efficiency 3-row G-type heat exchanger with a heat exchange area 1.5 times that of the 22HP unit. The 24-32HP units also use super big size fan which diameter is up to 750mm.



3-rows G-type heat exchanger



Super big size fan

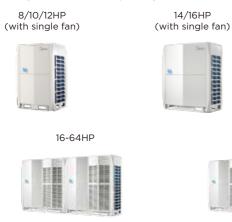


## Wide Application Range

# **High Reliability**

### Wide Capacity Range

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

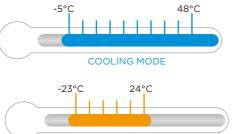






### Wide Operation Range

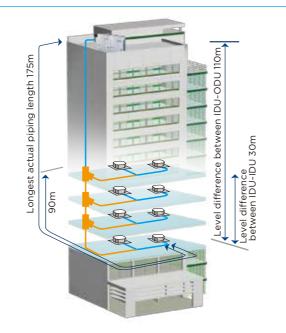
The V6 VRF can operate stably in a wide ambient temperature range: from -5°C to 48°C in cooling mode and from -23°C to 24°C in heating mode.



HEATING MODE

### Long Piping Capability

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



#### **Duty Cycling**

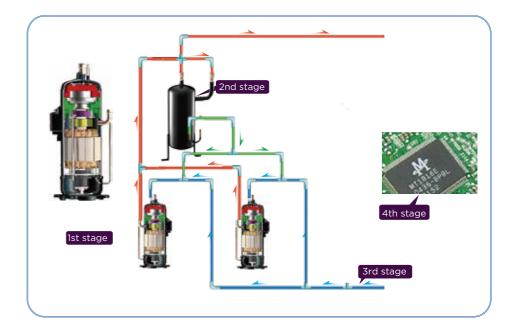
Duty cycling equalizes the running time of the outdoor units in a multiple-unit system and of the compressors in each unit, significantly extending compressor lifespan.



### 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.









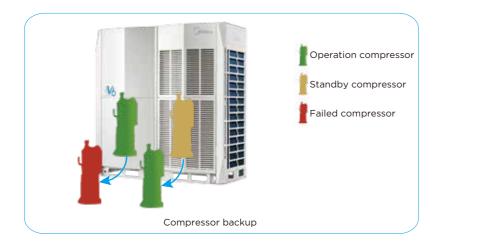
3<sup>rd</sup> cycle

# **High Reliability**

# **High Reliability**

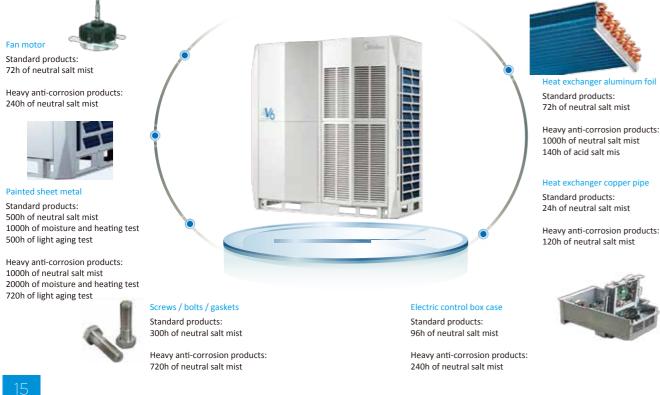
### **Backup Operation**

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.

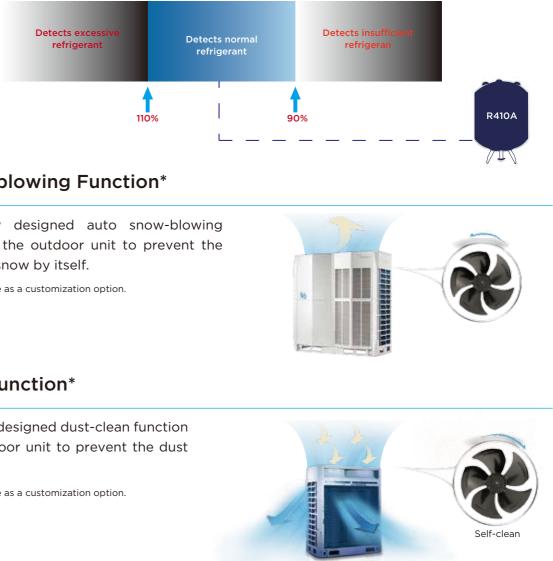


### **Refrigerant Cooling PCB**

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\***

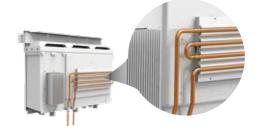
The innovatively designed auto snow-blowing function enables the outdoor unit to prevent the accumulation of snow by itself.

\*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.

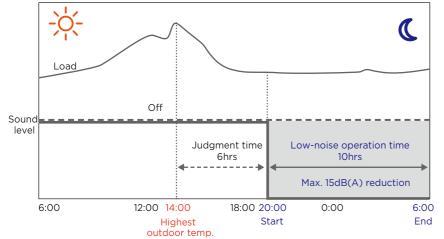


### **Enhanced Comfort**

# **Easy Installation and Service**

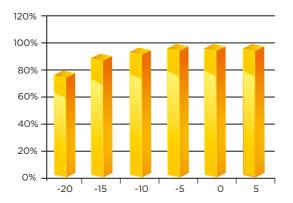
#### **Night Silent Mode**

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.



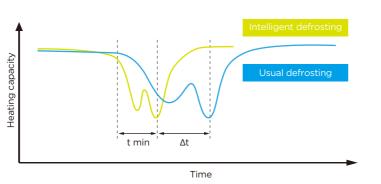
### **Enhanced Heating Capacity**

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

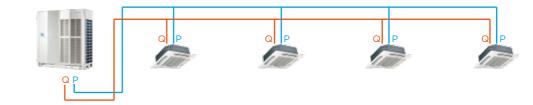
The intelligent defrosting program calculates the time required for defrosting according to the actual system status, eliminating heat losses from unnecessary defrosting. A specialized defrosting valve reduces time required for defrosting to as little at four minutes.



### 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.



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### **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

### Specifications



Capacity		HP		10	12	14			
Model	Nodel		MV6-252WV2GN1-E	MV6-280WV2GN1-E	MV6-335WV2GN1-E	MV6-400WV2GN1-E			
Power supply		V/Ph/Hz		380-415/3/50					
	Capacity	kW	25.2	28.0	33.5	40.0			
Cooling <sup>1</sup>	Capacity	kBut/h	86.0	95.5	114.3	136.5			
Cooling	Power input	kW	5.3	6.3	8.7	9.9			
	EER	kW/kW	4.75	4.45	3.85	4.05			
	Capacity	kW	25.2	28.0	33.5	40.0			
2	Capacity	kBut/h	86.0	95.5	114.3	136.5			
Heating <sup>2</sup>	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 outd	oor unit capacity				
Indoor Unit	Max. quantity		13	16	20	23			
Compressors	Туре		DC inverter						
compressors	Quantity		1						
	Туре		DC						
Fan motors	Quantity								
	Max. ESP	Ра							
Refrigerant	Туре		R410A						
-	Factory charge	kg			13				
Pipe	Liquid pipe	mm	Φ1	2.7	Φ15.9	Φ15.9			
connections <sup>3</sup>	Gas pipe	mm	Φ2	5.4	Φ28.6	Φ31.8			
Airflow rate		m³/h		11000					
Sound pressure	level <sup>4</sup>	dB(A)		8	60	62			
Sound power le	vel	dB(A)	78 81			85			
Net dimensions	(WxHxD)	mm	990×1635×790						
Packed dimensi	ons (WxHxD)	mm		1405×1805×910					
Net weight		kg		227		277			
Gross weight		kg		242		304			
Ambient temp.	Cooling	°C		-5 to	0 48				
operating range	Heating	°C		-23 t	0 24				

Capacity		HP	24	26	28		
Model			MV6-670WV2GN1-E	MV6-730WV2GN1-E	MV6-785WV2GN1-E		
Power supply		V/Ph/Hz		380-415/3/50			
	Capacity	kW	67.0	73.0	78.5		
Cooling <sup>1</sup>	Capacity	kBut/h	228.6	249.1	267.8		
Cooling	Power input	kW	18.1	20.9	24.2		
	EER	kW/kW	3.70	3.49	3.25		
	Capacity	kW	67.0	73.0	78.5		
lleating <sup>2</sup>	Capacity	kBut/h	228.6	249.1	267.8		
Heating <sup>2</sup>	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	Туре		DC inverter				
compressors	Quantity		2				
1	Туре		DC				
Fan motors	Quantity		2				
	Max. ESP	Ра	20 Default; 60 Customize				
Refrigerant	Туре						
0	Factory charge	kg		22			
Pipe	Liquid pipe	mm	Φ19.1	Φ22.	2		
connections <sup>3</sup>	Gas pipe	mm	Ф31.8	Ф31.	8		
Airflow rate		m³/h		25000			
Sound pressure	level <sup>4</sup>	dB(A)	67	68			
Sound power lev	vel	dB(A)	89	90			
Net dimensions		mm		1730 × 1830 × 850			
Packed dimension	ons (WxHxD)	mm	1800×2000×910				
Net weight		kg	430				
Gross weight		kg		453			
Ambient temp.	Cooling	°C		-5 to 48			
operating range Heating °C				-23 to 24			

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Capacity		HP	16	18	20	22		
Model			MV6-450WV2GN1-E	MV6-500WV2GN1-E	MV6-560WV2GN1-E	MV6-615WV2GN1-E		
Power supply		V/Ph/Hz		380-41	5/3/50			
	Canacity	kW	45.0	50.0	56.0	61.5		
Caralia a <sup>1</sup>	Capacity	kBut/h	153.5	170.6	191.1	209.8		
Cooling <sup>1</sup>	Power input	kW	12.0	12.5	15.1	18.4		
	EER	kW/kW	3.75	4.00	3.70	3.35		
	Capacity	kW	45.0	50.0	56.0	61.5		
Heating <sup>2</sup>	Capacity	kBut/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 outd	loor unit capacity			
Indoor Unit	Max. quantity		26	29	33	36		
Compressors	Туре		DC inverter 2					
compressors	Quantity		1					
	Туре		DC					
Fan motors	Quantity		1	2				
	Max. ESP	Pa	20 Default; 60 Customize					
Refrigerant	Туре		R410A					
•	Factory charge	kg	13	17				
Pipe	Liquid pipe	mm	Φ15.9		Ф19.1			
connections <sup>3</sup>	Gas pipe	mm	Ф31.8		Ф31.8			
Airflow rate		m <sup>3</sup> /h	13000		17000			
Sound pressure		dB(A)	6	-	-	6		
Sound power le		dB(A)			88			
Net dimensions		mm	1340×1635×850		1340×1635×825			
Packed dimensi	ons (WxHxD)	mm		1405×13	805×910			
Net weight		kg	277		348			
Gross weight		kg	304		368			
Ambient temp.	Cooling	°C			o 48			
operating range	Heating	°C		-23 1	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.

Capacity HP		HP	30	32			
Model			MV6-850WV2GN1-E MV6-900WV2GN1-E				
Power supply		V/Ph/Hz	380-415/3/50				
	Capacity	kW	85.0	90.0			
Cooling <sup>1</sup>	Capacity	kBut/h	290.0	307.1			
Cooling	Power input	kW	27.4	31.0			
	EER	kW/kW	3.10	2.90			
	Capacity	kW	85.0	90.0			
Heating <sup>2</sup>	Capacity	kBut/h	290.0	307.1			
Heating	Power input	kW	23.0	25.7			
	COP	kW/kW	3.70	3.50			
Connectable	Total capacity		50-130% of outd	oor unit capacity			
Indoor Unit	Max. quantity		50	53			
Compressors	Туре		DC inv	verter			
compressors	Quantity		2				
	Туре		DC				
Fan motors	Quantity		2				
	Max. ESP	Pa	20 Default; 60 Customize				
Refrigerant	Туре		R410A				
0	Factory charge	kg	25				
Pipe	Liquid pipe	mm	Φ2	2.2			
connections <sup>3</sup>	Gas pipe	mm	Ф3	8.1			
Airflow rate		m³/h	24000				
Sound pressure	level <sup>4</sup>	dB(A)	68				
Sound power le		dB(A)	90				
Net dimensions		mm	1730 × 1830 × 850				
Packed dimensions (WxHxD) mm		mm	1800×2000×910				
Net weight		kg	475				
Gross weight		kg	50	)7			
Ambient temp.	Cooling	°C	-5 to	0.48			
operating range Heating °C			-23 t	o 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.

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.





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

### **Specifications**

# 

Capacity		HP	34	36	38	40		
Model	el		MV6-950WV2GN1-E	MV6-1015WV2GN1-E	MV6-1065WV2GN1-E	MV6-1120WV2GN1-E		
Combination type			12HP+22HP	14HP+22HP	16HP+22HP	12HP+28HP		
Power supply		V/Ph/Hz		380-41	5/3/50	•		
	Capacity	kW	95.0	101.5	106.5	112.0		
<b>c</b> 1: 1	Capacity	kBut/h	324.1	346.3	363.4	382.1		
Cooling	Power input	kW	27.1	28.2	30.4	32.9		
	EER	kW/kW	3.51	3.59	3.51	3.41		
	Capacity	kW	95.0	101.5	106.5	112.0		
Heating <sup>2</sup>	Capacity	kBut/h	324.1	346.3	363.4	382.1		
Heating	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 outd	oor unit capacity	•		
Indoor Unit	Max. quantity		56	59	63	64		
Compressors	Туре		DC inverter					
compressors	Quantity		3					
	Туре		DC					
Fan motors	Quantity							
	Max. ESP	Pa	20 Default; 60 Customize					
Refrigerant	Туре		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	Ф31.8		Φ38.1			
Airflow rate		m³/h	28000	30	000	36000		
Sound pressure	level <sup>4</sup>	dB(A)	69					
Sound power le		dB(A)		g	91			
Net dimensions	(WxHxD)	mm	(990×1635×790)+(1340×1635×825)	(1340×1635×850)-	+(1340×1635×825)	(990×1635×790)+(1730×1830×850)		
Packed dimensi	ons (WxHxD)	mm	(1090×1805×860)+(1405×1805×	(1405×18	05×910)×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.	Cooling	°C		-5 t	o 48			
operating range	Heating	°c		-23 t	to 24			



Capacity		HP	42	44	46	48		
Model			MV6-1175WV2GN1-E	MV6-1230WV2GN1-E	MV6-1285WV2GN1-E	MV6-1345WV2GN1-E		
Combination type			20HP+22HP	20HP+22HP 22HP+22HP 22HP+24HP 380-415/3/50				
Power supply		V/Ph/Hz		380-41	5/3/50			
	Conscitu	kW	117.5	123.0	128.5	134.5		
Cooling <sup>1</sup> Capacity Power input	kBut/h	400.9	419.7	438.4	458.9			
	kW	33.5	36.7	36.5	39.3			
	EER	kW/kW	3.51	3.35	3.52	3.43		
	Capacity	kW	117.5	123.0	128.5	134.5		
	Capacity	kBut/h	400.9	419.7	438.4	458.9		
Heating <sup>2</sup>	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 outd	oor unit capacity			
Indoor Unit	Max. quantity			6	64			
C	Туре		DC inverter					
Compressors	Quantity		4					
	Туре		DC					
Fan motors	Quantity		4					
	Max. ESP	Ра	20 Default; 60 Customize					
Refrigerant	Туре		R410A					
Keingerant	Factory charge	kg	17×2			+22		
Pipe	Liquid pipe	mm		Φ1	9.1			
connections <sup>3</sup>	Gas pipe	mm		Φ3	8.1			
Airflow rate		m³/h	340	000	42000			
Sound pressure	level <sup>4</sup>	dB(A)	70					
Sound power lev		dB(A)		g	92			
Net dimensions	(WxHxD)	mm	(1340×163	35×825)×2	(1340×1635×825)+	+(1730×1830×850)		
Packed dimension	ons (WxHxD)	mm	(1405×180	05×910)×2	(1405×1805×910)+(1800×2000×910)			
Net weight		kg	34	8×2	348-	-430		
Gross weight		kg	368	3×2	368+	-453		
Ambient temp.	Cooling	°C		-5 t	o 48			
operating range Heating °C			-23 to 24					

Notes

Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
 Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
 Diameters given are those 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.
 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 50 52 54				56				
Model			MV6-1400WV2GN1-E	MV6-1400WV2GN1-E MV6-1460WV2GN1-E MV6-1515WV2GN1-E MV6-					
Combination ty	pe		22HP+28HP	26HP+26HP	26HP+28HP	28HP+28HP			
Power supply		V/Ph/Hz		380-415/3/	50				
	Capacity	kW	140.0	146.0	151.5	157.0			
Cooling <sup>1</sup>	Capacity	kBut/h	477.7	498.2	516.9	535.7			
Cooling	Power input	kW	42.5	41.8	45.1	48.3			
	EER	kW/kW	3.29	3.49	3.36	3.25			
	Capacity	kW	140.0	146.0	151.5	157.0			
Heating <sup>2</sup>	Capacity	kBut/h	477.7	498.2	516.9	535.7			
neating	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 u	unit capacity				
Indoor Unit	Max. quantity			64					
Compressors	Туре		DC inverter						
Compressors	Quantity		4						
	Туре		DC						
Fan motors	Quantity		4						
	Max. ESP	Ра	20 Default; 60 Customize						
Refrigerant	Туре			R410A					
0	Factory charge	kg	17+22		22×2				
Pipe	Liquid pipe	mm		Ф19.1		Φ19.1			
connections <sup>3</sup>	Gas pipe	mm		Φ38.1		Φ41.3			
Airflow rate		m³/h	42000		50000				
Sound pressure	level <sup>4</sup>	dB(A)	70						
Sound power le	vel	dB(A)	92						
Net dimensions	(WxHxD)	mm	(1340×1635×825)+(1730×1830×850)		(1730×1830×850)×2				
Packed dimensi	ons (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.	Cooling	°C		-5 to 48					
operating range	Heating	°C		-23 to 24					

Capacity		HP	58		62	64			
Model			MV6-1635WV2GN1-E	MV6-1685WV2GN1-E	MV6-1750WV2GN1-E	MV6-1800WV2GN1-I			
Combination ty	be		28HP+30HP	28HP+32HP	30HP+32HP	32HP+32HP			
Power supply		V/Ph/Hz		380-41	15/3/50				
	Conneitu	kW	163.5	168.5	175.0	180.0			
a u 1	Capacity	kBut/h	557.9	574.9	597.1	614.2			
Cooling <sup>1</sup>	Power input	kW	51.6	55.2	58.5	62.1			
leating <sup>2</sup>	EER	kW/kW	3.17	3.05	2.99	2.90			
	Capacity	kW	163.5	168.5	175.0	180.0			
· · · · · · · · · · · · · · · · · · ·	Capacity	kBut/h	557.9	574.9	597.1	614.2			
Heating	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 outo	loor unit capacity				
Indoor Unit	Max. quantity		64						
Comprosors	Туре		DC inverter						
Compressors	Quantity		4						
	Туре		DC						
Fan motors	Quantity		4						
	Max. ESP	Pa	20 Default; 60 Customize						
Refrigerant	Туре		R410A						
0	Factory charge	kg	22+25 25×2						
Pipe	Liquid pipe	mm	Φ19.1						
connections <sup>3</sup>	Gas pipe	mm		Φ4	11.3				
Airflow rate		m³/h	490	00	480	000			
Sound pressure	level <sup>4</sup>	dB(A)	70						
Sound power lev	/el	dB(A)	92						
Net dimensions		mm	(1730×1830×850)×2						
Packed dimension	ons (WxHxD)	mm		(1800×20	00×910)×2				
Net weight		kg	430+475 475×2						
Gross weight		kg	453+	507	507	/×2			
Ambient temp.	Cooling	°C		-5 t	0 48				
operating range	Heating	°C	-23 to 24						

 Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
 Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
 Diameters given are those 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.

52	54	56
WV2GN1-E	MV6-1515WV2GN1-E	MV6-1570WV2GN1-E
+26HP	26HP+28HP	28HP+28HP
380-415/3/	50	
6.0	151.5	157.0
8.2	516.9	535.7
L.8	45.1	48.3



### Specifications

Capacity		HP	66	68	70	72			
Model			MV6-1850WV2GN1-E	MV6-1915WV2GN1-E	MV6-1965WV2GN1-E	MV6-2020WV2GN1-E			
Combination ty	/pe		12HP+22HP+32HP	14HP+22HP+32HP	16HP+22HP+32HP	12HP+28HP+32HP			
Power supply		V/Ph/Hz		380-415/3/	50				
	Capacity	kW	185.0	191.5	196.5	202.0			
Cooling <sup>1</sup>	Capacity	kBut/h	631.2	653.4	670.5	689.2			
Cooling	Power input	kW	58.1	59.3	61.4	63.9			
	EER	kW/kW	3.18	3.23	3.20	3.16			
	Capacity	kW	185.0	191.5	196.5	202.0			
	Capacity	kBut/h	631.2	653.4	670.5	689.2			
Heating <sup>2</sup>	Power input	kW	47.3	49.2	50.5	52.9			
	COP	kW/kW	3.91	3.89	3.89	3.82			
Connectable	Total capacity		50-130% of outdoor unit capacity						
Indoor Unit	Max. quantity			64					
<u></u>	Туре		DC inverter						
Compressors	Quantity			5					
	Туре		DC						
Fan motors	Quantity		5						
	Max. ESP	Ра	20 Default; 60 Customize						
D ( : .	Туре		R410A						
Refrigerant	Factory charge	kg	11+17+25	13+1	7+25	11+22+25			
Pipe	Liquid pipe	mm	Φ19.1		Φ22.2				
connections <sup>3</sup>	Gas pipe	mm	Φ41.3		Φ44.5				
Airflow rate	000 0.00	m <sup>3</sup> /h	52000	540	000	60000			
Sound pressure	elevel <sup>4</sup>	dB(A)		71					
Sound power le		dB(A)		93					
			(990×1635×790)+(1340×1635×825)+			(990×1635×790)+			
Net dimensions	s (WxHxD)	mm	(1730×1830×850)	(1340×1635×850)+(1340×16	535×825)+(1730×1830×850)	(1730×1830×850)×2			
			(1090×1805×860)+(1405×1805×910)+			(1090×1805×860)+			
Packed dimens	ions (WxHxD)	mm	(1800×2000×910)	(1405×1805×910)×2	2+(1800×2000×910)	(1800×2000×910)×2			
Net weight		kg	227+348+475	277+34	18+475	227+430+475			
Gross weight		kg	242+368+507		58+507	242+453+507			
Ambient temp.	Cooling	°C	212.300.307	-5 to 48		212-155-507			
operating range	0	°C		-23 to 24					
operating range	- Incomis	Ľ	-25 t0 24						



						and the second sec			
Capacity		HP	74	76	78	80			
Vodel			MV6-2075WV2GN1-E	MV6-2130WV2GN1-E	MV6-2185WV2GN1-E	MV6-2245WV2GN1-E			
Combination type			20HP+22HP+32HP	22HP+22HP+32HP	22HP+24HP+32HP	22HP+26HP+32HP			
Power supply		V/Ph/Hz		380-41	5/3/50				
	Canacity	kW	207.5	213.0	218.5	224.5			
	Capacity	kBut/h	708.0	726.8	745.5	766.0			
Cooling <sup>1</sup>	Power input	kW	64.5	67.8	67.5	70.3			
	EER	kW/kW	3.22	3.14	3.24	3.19			
	Canacity	kW	207.5	213.0	218.5	224.5			
2	Capacity	kBut/h	708.0	726.8	745.5	766.0			
Heating <sup>2</sup>	Power input	kW	53.4	55.7	55.6	58.3			
	COP	kW/kW	3.88	3.82	3.93	3.85			
Connectable	Total capacity			50-130% of outd	oor unit capacity				
ndoor Unit	Max. quantity		64						
`omprossors	Туре			DC inverter					
Compressors	Quantity		6						
	Туре		DC						
an motors	Quantity		6						
	Max. ESP	Pa	20 Default; 60 Customize						
Refrigerant	Туре		R410A						
0	Factory charge	kg	17×2+25 17+22+25						
Pipe	Liquid pipe	mm		Φ2	2.2				
connections <sup>3</sup>	Gas pipe	mm		Φ4	4.5				
Airflow rate		m <sup>3</sup> /h	580	000	660	00			
ound pressure	level <sup>4</sup>	dB(A)	72						
Sound power le	vel	dB(A)		9	4				
Net dimensions	(WxHxD)	mm	(1340×1635×825)×2	2+(1730×1830×850)	(1340×1635×825)+(	1730×1830×850)×2			
Packed dimensi	ons (WxHxD)	mm	(1405×1805×910)×2	2+(1800×2000×910)	(1405×1805×910)+(	1800×2000×910)×2			
let weight		kg	348×2	2+475	348+43	0+475			
Gross weight		kg	368×2	2+507	368+45	3+507			
Ambient temp.	Cooling	°C		-5 to	0 48				
1 000000		°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.

Specifications

Capacity		HP	82	84	86	88		
Model			MV6-2300WV2GN1-E	MV6-2360WV2GN1-E	MV6-2415WV2GN1-E	MV6-2470WV2GN1-E		
Combination typ	pe		22HP+28HP+32HP	26HP+26HP+32HP	26HP+28HP+32HP	28HP+28HP+32HP		
Power supply		V/Ph/Hz		380-415/3/5	50			
	Capacity	kW	230.0	236.0	241.5	247.0		
Cooling <sup>1</sup>	capacity	kBut/h	784.8	805.2	824.0	842.8		
Cooning	Power input	kW	73.5	72.8	76.1	79.3		
	EER	kW/kW	3.13	3.24	3.17	3.11		
	Capacity	kW	230.0	236.0	241.5	247.0		
Heating <sup>2</sup>	capacity	kBut/h	784.8	805.2	824.0	842.8		
neating	Power input	kW	61.4	60.9	64.0	67.0		
	COP	kW/kW	3.75	3.87	3.78	3.68		
Connectable	Total capacity			50-130% of outdoor u	nit capacity			
Indoor Unit	Max. quantity			64				
Compressors	Туре		DC inverter					
Compressors	Quantity		6					
	Туре		DC					
Fan motors	Quantity		6					
	Max. ESP	Ра	20 Default; 60 Customize					
Refrigerant	Туре		R410A					
0	Factory charge	kg	17+22+25		22×2+25			
Pipe	Liquid pipe	mm	Φ22.2		Φ25.4			
connections <sup>3</sup>	Gas pipe	mm	Φ44.5		Φ50.8			
Airflow rate		m³/h	66000		74000			
Sound pressure I	level <sup>4</sup>	dB(A)		72				
Sound power lev	/el	dB(A)		94				
Net dimensions (	(WxHxD)	mm	(1340×1635×825)+(1730×1830×850)×2		(1730×1830×850)×3			
Packed dimensio	ons (WxHxD)	mm	(1405×1805×910)+(1800×2000×910)×2		(1800×2000×910)×3			
Net weight		kg	348+430+475		430×2+475			
Gross weight		kg	368+453+507		453×2+507			
Ambient temp.	Cooling	°C		-5 to 48				
operating range	Heating	°C		-23 to 24				

Capacity		HP	90	92	94	96			
Model			MV6-2535WV2GN1-E	MV6-2585WV2GN1-E	MV6-2650WV2GN1-E	MV6-2700WV2GN1-E			
Combination ty	ре		28HP+30HP+32HP	30HP+32HP+32HP	32HP+32HP+32HP				
Power supply		V/Ph/Hz		380-41	5/3/50				
	Capacity	kW	253.5	258.5	265.0	270.0			
Cooling <sup>1</sup>	Capacity	kBut/h	864.9	882.0	904.2	921.2			
Cooling	Power input	kW	82.6	82.6 86.2 89.5		93.1			
	EER	kW/kW	3.07	3.00	2.96	2.90			
	Capacity	kW	253.5	258.5	265.0	270.0			
Heating <sup>2</sup>	Capacity	kBut/h	864.9	882.0	904.2	921.2			
neating	Power input	kW	69.3	72.1	74.4	77.1			
	COP	kW/kW	3.66	3.59	3.56	3.50			
Connectable	Total capacity				oor unit capacity				
Indoor Unit	Max. quantity		64						
Compressors	Туре		DC inverter						
compressors	Quantity		6						
	Туре			D	OC				
Fan motors	Quantity		6						
	Max. ESP	Pa	20 Default; 60 Customize						
Refrigerant	Туре		R410A						
•	Factory charge	kg	22+25×2 25+25×2						
Pipe	Liquid pipe	mm		Φ2	.5.4				
connections <sup>3</sup>	Gas pipe	mm		Φ50.8					
Airflow rate		m³/h	73000 72000						
Sound pressure		dB(A)	72						
Sound power lev	vel	dB(A)	94						
Net dimensions	(WxHxD)	mm	(1730×1830×850)×3						
Packed dimension	ons (WxHxD)	mm		(1800×20	00×910)×3				
Net weight		kg	430+4	475×2	47	5×3			
Gross weight		kg	453+507×2 507×3						
Ambient temp.	Cooling	°C		-5 t	o 48				
operating range	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.



# **2<sup>nd</sup> Generation VRF DC INDOOR UNITS**

\*

123

20

TR





35 Medium Static **Pressure Duct** 

37

42 Console



33

Compact Four-way Cassette

Fresh Air Processing Unit

39 Ceiling / Floor Unit

32 Two-way Cassette

34 Four-way Cassette

36 **High Static** Pressure Duct

38 Wall Mounted Unit

40 Floor Standing Unit

## Wide Application Range

# **Comfort and Efficiency**

#### 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.



M9 panel



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.





F4 (front air intake)



F3B (concealed)

F5 (underside air intake)

### High Efficiency DC Fan Motor

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



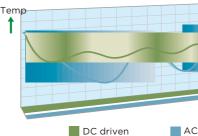
### **Quiet Operation**

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.

Fluctuation of room temperature

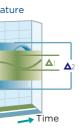


#### 5-step Swing Louver

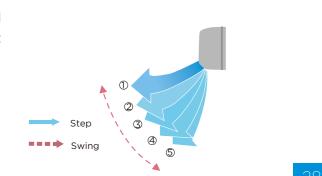
The air is comfortably spread upwards and downwards thanks to the 5-step swing louver that can be programmed via the controller.

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AC driven



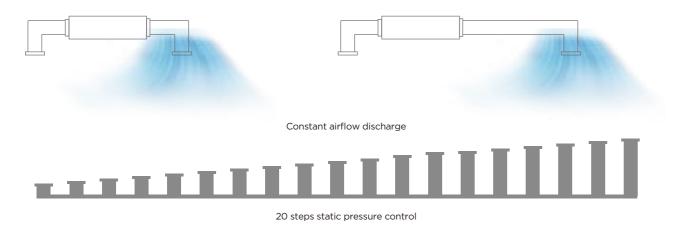
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## **Comfort and Efficiency**

### Convenience

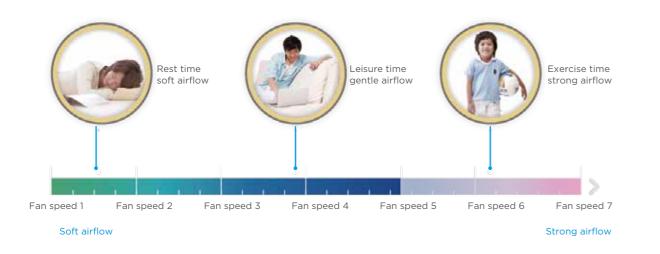
### Static Pressure 20 Steps Control (Duct Unit)

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.



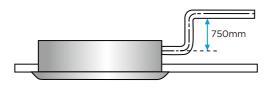
### Fresh Air Intake

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.



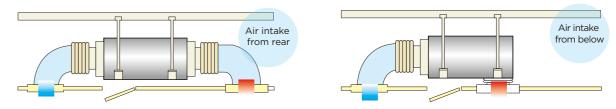
### **High-lift Drain Pump**

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

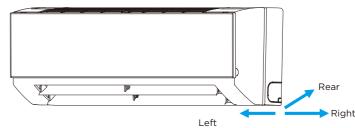


### **Flexible Installation**

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.



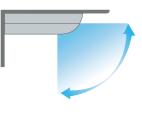
For Wall Mounted Units, the refrigerant outlet direction can be left, right or rear as the installation situation requires. A new fixing plate design speeds installation and provides extra stability.



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



Floor installation



Ceiling installation

### **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 Optional wired controller controller - 105/ 1111 WDC-86E/KD WDC-120G/WK RM12D RM05B

Model			MI2-18Q1DN1	MI2-22Q1DN1	MI2-28Q1DN1	MI2-36Q1DN1	
Power supply				1-phase, 220-240V, 50Hz			
	Capacity	kW	1.8	2.2	2.8	3.6	
Cooling <sup>1</sup>	Capacity	kBtu/h	6.1	7.5	9.6	12.3	
	Power input	w	25	25	30	30	
	Capacity	kW	2.2	2.6	3.2	4.0	
Heating <sup>2</sup>		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 lev	/el <sup>4</sup>	dB(A)	37/36/35/34/32/31/30 39/38/37/36/35/35/34			6/35/35/34	
	Net dimensions <sup>5</sup> (WxHxD)	mm	1054×153×425				
Main body	Packed dimensions (WxHxD)	mm	1155×245×490				
	Net/Gross weight	kg	11.8	2/15.3 12.3		/15.8	
	Net dimensions (W×H×D)	mm	1180×25×465				
Panel	Packed dimensions (W×H×D)	mm		1232×1	107×517		
	Net/Gross weight	kg		3.5/5.2			
Dina connections	Liquid/Gas pipe	mm		Ф6.35,	/Φ12.7		
Pipe connections	Drain pipe	mm		OD	Ф32		

Model			MI2-45Q1DN1	MI2-56Q1DN1	MI2-71Q1DN1			
Power supply				1-phase, 220-240V, 50Hz				
	Conscitu	kW	4.5	5.6	7.1			
Cooling <sup>1</sup>	Capacity	kBtu/h	15.4	19.1	24.2			
	Power input	w	40	48	60			
	Conscitu	kW	5.0	6.3	8.0			
Heating <sup>2</sup>	Capacity	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 lev	vel <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			
	Net dimensions <sup>5</sup> (WxHxD)	mm	1275×189×450					
Main body	Packed dimensions (WxHxD)	mm	1370×295×505					
	Net/Gross weight	kg	16.1/20.4	16.4/20.7	17.6/22.4			
	Net dimensions (W×H×D)	mm		1350×25×505				
Panel	Packed dimensions (W×H×D)	mm		1410×95×560				
	Net/Gross weight	kg	4/5.4					
	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	Ф9.53	/Φ15.9			
Pipe connections	Drain pipe	mm		OD Φ32	OD \$32			

#### Notes:

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

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

3. Each model's 7 airflow rate options are listed in order, from highest to lowest.

4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.

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

### **Two-way Cassette**

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

Model			MI2-22Q2DN1	MI2-28Q2DN1	MI2-36Q2DN1			
Power supply				1-phase, 220-240V, 50Hz				
	Capacity	kW	2.2	2.8	3.6			
Cooling <sup>1</sup>	Capacity	kBtu/h	7.5	9.6	12.3			
	Power input	w	35	40	40			
	Capacity	kW	2.6	3.2	4.0			
Heating <sup>2</sup>	Capacity	kBtu/h	8.9	10.9	13.6			
	Power input	w	35	40	40			
Air flow rate <sup>3</sup>		m³/h	654/612/571/530/488/449/410		725/679/641/591/554/509/458			
Sound pressure lev	vel <sup>4</sup>	dB(A)	33/31/30/29/27/25/24 35/33/32/30/29/27/25/24					
	Net dimensions <sup>5</sup> (WxHxD)	mm	1172×299×591					
Main body	Packed dimensions (WxHxD)	mm	1355×400×675					
	Net/Gross weight	kg	33.5/42.0					
	Net dimensions (W×H×D)	mm		1430×53×680				
Panel	Packed dimensions (W×H×D)	mm		1525×130×765				
	Net/Gross weight	kg		10.5/15				
Ding connections	Liquid/Gas pipe	mm		Φ6.35/Φ12.7				
Pipe connections	Drain pipe	mm						

Model			MI2-45Q2DN1	MI2-56Q2DN1	MI2-71Q2DN1		
Power supply				1-phase, 220-240V, 50Hz			
	Canacity	kW	4.5	5.6	7.1		
Cooling <sup>1</sup>	Capacity	kBtu/h	15.4	19.1	24.2		
	Power input	w	50	69	98		
	Canacity	kW	5.0	6.3	8.0		
Heating <sup>2</sup>	Capacity	kBtu/h	17.1	21.5	27.3		
	Power input	w	50	69	98		
Air flow rate <sup>3</sup>	Air flow rate <sup>3</sup> m <sup>3</sup>		850/792/731/670/631/592/550	980/925/855/800/755/702/670	1200/1115/1068/1000/921/808/770		
Sound pressure lev	vel <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		
	Net dimensions <sup>5</sup> (WxHxD)	mm	1172×299×591				
Main body	Packed dimensions (WxHxD)	mm	1355×400×675				
	Net/Gross weight	kg		35/43.5			
	Net dimensions (W×H×D)	mm		1430×53×680			
Panel	Packed dimensions (W×H×D)	mm		1525×130×765			
	Net/Gross weight			10.5/15			
Dina connections	Liquid/Gas pipe	mm	Φ6.35/Φ12.7	Ф9.53	8/Ф15.9		
Pipe connections	Drain pipe	mm	OD \$32				

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.

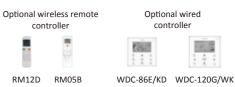
3. Each model's 7 airflow rate options are listed in order, from highest to lowest.

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.





RM12D	RM05B

controller

### **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			MI2-22Q4CDN1	MI2-28Q4CDN1	MI2-36Q4CDN1	MI2-45Q4CDN1		
Power supply				1-phase, 220-240V, 50Hz				
	Conneitu	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	35	35	40	50		
	Constitu	kW	2.4	3.2	4.0	5.0		
Heating <sup>2</sup>	Capacity	kBtu/h	8.2	10.9	13.6	17.1		
	Power input	w	35	35	40	50		
Air flow rate <sup>3</sup>		m³/h	576/552/524/503/462/441/405		604/573/541/516/478/434/400			
Sound pressure lev	el <sup>4</sup>	dB(A)	35/34/33/29/26/23/22 41/38/35/32/30/29/28			2/30/29/28		
	Net dimensions <sup>5</sup> (WxHxD)	mm	630×260×570					
Main body	Packed dimensions (WxHxD)	mm	700×330×660					
	Net/Gross weight	kg	18/	23.5	19.2/24.7			
	Net dimensions (W×H×D)	mm		647×5	0×647			
Panel	Packed dimensions (W×H×D)	mm		715×1	23×715			
	Net/Gross weight	kg	2.5/4.5					
	Liquid/Gas pipe	mm	Φ6.35/Φ12.7					
Pipe connections	Drain pipe	mm		OD \$32				

#### 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).

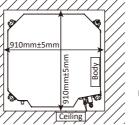
Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.

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			MI2-28Q4DN1	MI2-36Q4DN1	MI2-45Q4DN1	MI2-56Q4DN1	MI2-71Q4DN1
Power supply					1 phase, 220-2	40V, 50Hz	·
	Capacity	kW	2.8	3.6	4.5	5.6	7.1
Cooling <sup>1</sup>	Capacity	kBtu/h	9.6	12.3	15.4	19.1	24.2
Power input	w	25	25	31	31	46	
	Capacity	kW	3.2	4.0	5.0	6.3	8.0
Heating <sup>2</sup>	Capacity	kBtu/h	10.9	13.6	17.1	21.5	27.3
	Power input	w	25	25	31	31	46
Air flow rate <sup>3</sup>	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 lev	vel <sup>4</sup>	dB(A)	42/40/38/37/35/34/32 43/41/39/38/			38/36/35/34	45/43/41/39/37/35/34
	Net dimensions <sup>5</sup> (WxHxD)	mm			904×23	0×840	
Main body	Packed dimensions (WxHxD)	mm			955×26	0×955	
	Net/Gross weight	kg	21.3	/25.8		23.2/	27.6
	Net dimensions (W×H×D)	mm			950×54	.5×950	
Panel	Packed dimensions (W×H×D)	mm		10			
	Net/Gross weight	kg	5/8				
Ding connections	Liquid/Gas pipe	mm		Φ6.35/Φ12.7			Φ9.53/Φ15.9
Pipe connections	Drain pipe	mm			OD 0	Þ32	

Model			MI2-80Q4DN1	MI2-90Q4DN1	MI2-100Q4DN1	MI2-112Q4DN1	MI2-140Q4DN1
Power supply				1 pl	hase, 220-240V, 5	50Hz	
	Capacity	kW	8.0	9.0	10.0	11.2	14.0
Cooling <sup>1</sup>	Capacity	kBtu/h	27.3	30.7	34.1	38.2	47.8
	Power input	W	48	75	75	75	94
	Capacity	kW	9.0	10.0	11.0	12.5	16.0
Heating <sup>2</sup>	Capacity	kBtu/h	30.7	34.1	37.5	42.7	54.6
	Power input	W	48	75	75	75	94
Air flow rate <sup>3</sup>		m³/h	1264/1195/1117/1055/975/893/811	1596/1477/1365/1239/1154/1087/1034		1727/1622/1517/1426/1351/1289/1224	
Sound pressure lev	vel <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			50/48/46/45/38/36/35
	Net dimensions <sup>5</sup> (WxHxD)	mm	904×230×840			904×300×840	1
Main body	Packed dimensions (WxHxD)	mm	955×260×955			955×330×955	
	Net/Gross weight	kg	23.2/27.6		28.4/33.8		30.7/35.8
	Net dimensions (W×H×D)	mm			950×54.5×950	)	
Panel	Packed dimensions (W×H×D)	mm			1035×90×103	5	
	Net/Gross weight	kg		5/8			
Pipe connections	Liquid/Gas pipe	mm			Ф9.53/Ф15.9		
ripe connections	Drain pipe	mm			OD Ф32		

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.

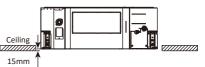






controller

RM12D RM05B



#### New panel installation dimensions

-0.5

1 2 3

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

111

### **Medium Static Pressure Duct**

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





Model			MI2-22T2DN1	MI2-28T2DN1	MI2-36T2DN1		
Power supply				1 phase, 220-240V, 50Hz			
	Capacity	kW	2.2	2.8	3.6		
Cooling <sup>1</sup>	Capacity	kBtu/h	7.5	9.6	12.3		
Power input	Power input	W	40	40	45		
Capacity	Capacity	kW	2.6	3.2	4.0		
Heating <sup>2</sup>	Сарасну	kBtu/h	8.2	10.9	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				
External static pre	ssure	Pa	10 (0~50)				
Sound pressure lev	vel <sup>4</sup>	dB(A)	35/35/34/3	4/33/32/31	37/37/36/36/35/34/33		
	Net dimensions <sup>5</sup> (WxHxD)	mm		780×210×500			
Unit	Packed dimensions (WxHxD)	mm		870×285×525			
	Net/Gross weight	kg	18/21				
Dina connections	Liquid/Gas pipe	mm		Φ6.35/ Φ12.7			
Pipe connections	Drain pipe	mm		OD Φ25			

Model			MI2-45T2DN1	MI2-56T2DN1	MI2-71T2DN1		
Power supply				1 phase, 220-240V, 50Hz			
	Capacity	kW	4.5	5.6	7.1		
Cooling <sup>1</sup>	Capacity	kBtu/h	15.4	19.1	24.2		
	Power input	W	92	92	98		
2 Capacity	kW	5.0	6.3	8.0			
Heating <sup>2</sup>	Capacity	kBtu/h	17.1	21.5	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 pre	ssure	Pa	10 (0~50)				
Sound pressure le	vel <sup>4</sup>	dB(A)	38/37/37/36/35/34/33	38/38/37/36/35/34/33	40/39/38/37/36/35/34		
i	Net dimensions <sup>5</sup> (WxHxD)	mm	1000×2	10×500	1220×210×500		
Unit	Packed dimensions (WxHxD)	mm	1115×2	85×525	1335×285×525		
	Net/Gross weight	kg	21.5	5/25	27.5/31.5		
Pipe connections	Liquid/Gas pipe	mm	Φ6.35/ Φ12.7	Ф9.53	/Φ15.9		
ripe connections	Drain pipe	mm		OD Φ25			

Model			MI2-80T2DN1	MI2-90T2DN1	MI2-112T2DN1	MI2-140T2DN1		
Power supply				1 phase, 220-240V, 50Hz				
	Capacity	kW	8.0	9.0	11.2	14.0		
Cooling <sup>1</sup>	Capacity	kBtu/h	27.3	30.7	38.2	47.8		
	Power input	W	110	120	200	250		
	2 Capacity	kW	9.0	10.0	12.5	15.5		
Heating <sup>2</sup>	Capacity	kBtu/h	30.7	34.1	42.7	52.9		
	Power input	W	110	120	200	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 pre	ssure	Pa		20 (10^	100)	40 (30~150)		
Sound pressure le	vel <sup>4</sup>	dB(A)	44/43/42/41/39/38/37 47/46/44/43/41/39/37		47/46/44/43/41/39/38			
	Net dimensions <sup>5</sup> (WxHxD)	mm		1230×27	0×775	1290×300×865		
Unit	Packed dimensions (WxHxD)	mm		1355×35	0×795	1400×375×925		
	Net/Gross weight	kg	36.5/44.5		37/45	46.5/55.5		
Dine connections	Liquid/Gas pipe	mm			Φ9.53/Φ15.9			
Pipe connections	Drain pipe	mm			OD Φ25			

#### Notes

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

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

3. Each model's 7 airflow rate options are listed in order, from highest to lowest.

4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3).

Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.

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

All specifications are measured at standard external static pressure.

# **High Static Pressure Duct**

duct and • 20-step	d grille network	ntrol	00Pa facilitates extensi on all models (requires		
• A doub	le-skin drainage p	an pro	ovides double protect	ion for Optional wireless remo	ote Optional wired
ceilinas	(models 71 to 160 )	)		controller	controller
-					KING THE REAL
<ul> <li>Drain p</li> </ul>	oump with a 750	mm	pump head available	easa	
customi	zation option				
				RM12D RM05B	WDC-86E/KD WDC-120G/WK
Model			MI2-71T1DN1	MI2-80T1DN1	MI2-90T1DN1
Power supply				1 phase, 220-240V, 50Hz	1
1	Capacity	kW	7.1	8.0	9.0
Cooling <sup>1</sup>					
-		kBtu/h	24.2	27.3	30.7
	Power input	W	180	27.3 180	30.7 220
		W kW	180 8.0	27.3 180 9.0	30.7 220 10.0
Heating <sup>2</sup>	Power input Capacity	W kW kBtu/h	180 8.0 27.3	27.3 180 9.0 30.7	30.7 220 10.0 34.1
	Power input	W kW kBtu/h W	180 8.0 27.3 180	27.3 180 9.0 30.7 180	30.7 220 10.0 34.1 220
Air flow rate <sup>3</sup>	Power input Capacity Power input	W kW kBtu/h W m <sup>3</sup> /h	180 8.0 27.3	27.3 180 9.0 30.7 180 1360/1333/1296/1264/1234/1197/1159	30.7 220 10.0 34.1
Air flow rate <sup>3</sup> External static pre	Power input Capacity Power input ssure	W kW kBtu/h W m <sup>3</sup> /h Pa	180 8.0 27.3 180 1360/1333/1296/1264/1234/1197/1159	27.3 180 9.0 30.7 180 1360/1333/1296/1264/1234/1197/1159 100 (30~ 200)	30.7 220 10.0 34.1 220 1428/1378/1328/1285/1237/1195/1151
Air flow rate <sup>3</sup>	Power input Capacity Power input ssure vel <sup>4</sup>	W kW kBtu/h W m <sup>3</sup> /h	180 8.0 27.3 180	27.3 180 9.0 30.7 180 1360/1333/1296/1264/1234/1197/1159 100 (30~ 200) 46/46/45/45/44/43/42	30.7 220 10.0 34.1 220
Air flow rate <sup>3</sup> External static pre Sound pressure le	Power input Capacity Power input ssure vel <sup>4</sup> Net dimensions <sup>5</sup> (WxHxD)	W kW kBtu/h W m <sup>3</sup> /h Pa	180 8.0 27.3 180 1360/1333/1296/1264/1234/1197/1159	27.3 180 9.0 30.7 180 1360/1333/1296/1264/1234/1197/1159 100 (30~ 200) 46/46/45/45/44/43/42 952×420×690	30.7 220 10.0 34.1 220 1428/1378/1328/1285/1237/1195/1151
Air flow rate <sup>3</sup> External static pre	Power input Capacity Power input ssure vel <sup>4</sup>	W kW kBtu/h W m <sup>3</sup> /h Pa dB(A)	180 8.0 27.3 180 1360/1333/1296/1264/1234/1197/1159 46/46/45/45/44/43/42	27.3 180 9.0 30.7 180 1360/1333/1296/1264/1234/1197/1159 100 (30° 200) 46/46/45/45/44/43/42 952×420×690 1090×440×768	30.7 220 10.0 34.1 220 1428/1378/1328/1285/1237/1195/1151
Air flow rate <sup>3</sup> External static pre Sound pressure le	Power input Capacity Power input ssure vel <sup>4</sup> Net dimensions <sup>5</sup> (WxHxD)	W kW kBtu/h W m <sup>3</sup> /h Pa dB(A) mm	180 8.0 27.3 180 1360/1333/1296/1264/1234/1197/1159 46/46/45/45/44/43/42	27.3 180 9.0 30.7 180 1360/1333/1296/1264/1234/1197/1159 100 (30~ 200) 46/46/45/45/44/43/42 952×420×690 1090×440×768 /47	30.7 220 10.0 34.1 220 1428/1378/1328/1285/1237/1195/1151
Air flow rate <sup>3</sup> External static pre Sound pressure le	Power input Capacity Power input ssure vel <sup>4</sup> Net dimensions <sup>5</sup> (WxHxD) Packed dimensions (WxHxD)	W kW kBtu/h W m <sup>3</sup> /h Pa dB(A) mm mm	180 8.0 27.3 180 1360/1333/1296/1264/1234/1197/1159 46/46/45/45/44/43/42	27.3 180 9.0 30.7 180 1360/1333/1296/1264/1234/1197/1159 100 (30° 200) 46/46/45/45/44/43/42 952×420×690 1090×440×768	30.7 220 10.0 34.1 220 1428/1378/1328/1285/1237/1195/1151 50/49/48/48/47/46/45

Model			MI2-112T1DN1	MI2-140T1DN1	MI2-160T1DN1	
Power supply				1 phase, 220-240V, 50Hz		
	Capacity	kW	11.2	14.0	16.0	
Cooling <sup>1</sup>	Capacity	kBtu/h	38.2	47.8	54.6	
	Power input	W	380	420	700	
Canad	Capacity	kW	12.5	16.0	17.0	
Heating <sup>2</sup>	Capacity	kBtu/h	42.7	54.6	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	2258/2127/2033/1927/1818/1707/1601	2608/2501/2354/2239/2099/2013/1879	
External static pres	ssure	Pa	100 (30~ 200)			
Sound pressure lev	vel <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	
	Net dimensions <sup>5</sup> (WxHxD)	mm	952×420×690	952×420×690 1300×420×690		
Unit	Packed dimensions (WxHxD)	mm	1090×440×768	1436×4	50×768	
	Net/Gross weight kg		51/57 63/70			
Dina connections	Liquid/Gas pipe	mm		Φ9.53/Φ19.1		
ripe connections	Pipe connections Drain pipe m			OD Φ25		

Model			MI2-200T1DN1	MI2-250T1DN1	MI2-280T1DN1		
Power supply			1 phase, 220-240V, 50Hz				
	Capacity	kW	20.0	25.0	28.0		
Cooling <sup>1</sup>	Capacity	kBtu/h	68.2	85.3	95.5		
	Power input	W	990	1200	1200		
	Capacity	kW	22.5	26.0	31.5		
Heating <sup>2</sup>	Capacity	kBtu/h	76.8	88.7	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 pre	ssure	Pa	170 (20~250)				
Sound pressure le	vel <sup>4</sup>	dB(A)		57/56/55/54/53/52/50			
	Net dimensions <sup>5</sup> (WxHxD)	mm		1440×505×925			
Unit	Packed dimensions (WxHxD)	mm		1509×550×990			
	Net/Gross weight	kg	130/142				
Pipe connections	Liquid/Gas pipe	mm		Φ12.7/Φ22.2			
Pipe connections	Drain pipe	mm		OD Φ32			

Notes:

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

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

3. Each model's 7 airflow rate options are listed in order, from highest to lowest.

4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.

5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments. All specifications are measured at standard external static pressure.

## **Fresh Air Processing Unit**

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



Optional wireless remote Optional wired controller controller - 10/2 11:

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

Model			MI2-125FADN1	MI2-140FADN1			
Power supply			1 phase, 220-240V, 50Hz				
	Conseitu	kW	12.5	14.0			
Cooling <sup>1</sup>	Capacity	kBtu/h	42.6	47.8			
	Power input	w	370	370			
<b>a</b>	kW	10.5	12.0				
Heating <sup>2</sup>	Capacity	kBtu/h	36.0	41.0			
	Power input	w	370	370			
Air flow rate <sup>3</sup>		m³/h	2440/2279/2117/1956/1794/1632/1470				
External static pres	ssure	Ра	180 (30~200)				
Sound pressure lev	vel <sup>4</sup>	dB(A)	52/51/51/5	0/50/49/48			
	Net dimensions <sup>5</sup> (WxHxD)	mm	1300×4	20×690			
Unit	Packed dimensions (WxHxD)	mm	1436×4	50×768			
	Net/Gross weight	kg	63,	/70			
Dia a construction of	Liquid/Gas pipe	mm	Ф9.53,	/Φ19.1			
Pipe connections	Drain pipe		OD Φ25				

Model			MI2-200FADN1	MI2-250FADN1	MI2-280FADN1		
Power supply				1 phase, 220-240V, 50Hz			
	Capacity	kW	20.0	25.0	28.0		
Cooling <sup>1</sup>	Capacity	kBtu/h	68.2	85.3	95.5		
Power input	Power input	w	615	670	670		
Capacity	kW	18.0	20.0	22.0			
Heating <sup>2</sup>	Capacity	kBtu/h	61.4	68.2	75.0		
	Power input	w	615	670	670		
Air flow rate <sup>3</sup>		m³/h	3860/3699/3537/3376/3214/3053/2890				
External static pre	ssure	Ра		200 (30~250)			
Sound pressure le	vel <sup>4</sup>	dB(A)	53/53/52/52/51/50/50				
	Net dimensions <sup>5</sup> (WxHxD)	mm		1450×505×925			
Unit	Packed dimensions (WxHxD)	mm		1509×550×990			
	Net/Gross weight	kg	130/142				
Pipe connections	Liquid/Gas pipe	mm		Φ12.7/Φ22.2			
Pipe connections	Drain pipe	mm		OD			

Notes:

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

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

3. Each model's 7 airflow rate options are listed in order, from highest to lowest.

4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.

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

All specifications are measured at standard external static pressure.

## Wall Mounted Unit

easily w with no • Refriger	rith any interior de false ceilings or fre	ecorati ee floo n can l	be left, right or rear as			
				Optional wireless remote controller	e Optional wired controller	
				RM12D RM05B	WDC-86E/KD WDC-120G/WK	
Model			MI2-22GDN1		MI2-28GDN1	
Power supply			1 ph	ase, 220-240V, 50Hz		
		kW	2.2		2.8	
Cooling1 Capacity					2.0	
Cooling <sup>1</sup>	Capacity	kBtu/h	7.5		9.6	
Cooling <sup>1</sup>	Capacity Power input	kBtu/h W	7.5 28		-	
Cooling <sup>1</sup>	Power input	· · ·	-		9.6	
Cooling <sup>1</sup> Heating <sup>2</sup>		W	28		9.6 28	
	Power input	W kW	28 2.4		9.6 28 3.2	
	Power input Capacity	W kW kBtu/h	28 2.4 8.2	417/4	9.6 28 3.2 10.9	
Heating <sup>2</sup>	Power input Capacity Power input	W kW kBtu/h W	28 2.4 8.2 28		9.6 28 3.2 10.9 28	
Heating <sup>2</sup> Air flow rate <sup>3</sup>	Power input Capacity Power input	W kW kBtu/h W m <sup>3</sup> /h	28 2.4 8.2 28 422/411/402/393/380/368/356		9.6 28 3.2 10.9 28 02/386/370/353/338/316	
Heating <sup>2</sup> Air flow rate <sup>3</sup>	Power input Capacity Power input vel <sup>4</sup>	W kW kBtu/h W m <sup>3</sup> /h dB(A)	28 2.4 8.2 28 422/411/402/393/380/368/356	31	9.6 28 3.2 10.9 28 02/386/370/353/338/316	
Heating <sup>2</sup> Air flow rate <sup>3</sup> Sound pressure le	Power input Capacity Power input vel <sup>4</sup> Net dimensions <sup>5</sup> (WxHxD)	W kW kBtu/h W m <sup>3</sup> /h dB(A) mm mm	28 2.4 8.2 28 422/411/402/393/380/368/356	31 835×280×203	9.6 28 3.2 10.9 28 02/386/370/353/338/316	
Heating <sup>2</sup> Air flow rate <sup>3</sup> Sound pressure le	Power input Capacity Power input vel <sup>4</sup> Net dimensions <sup>5</sup> (WxHxD) Packed dimensions (WxHxD)	W kW kBtu/h W m <sup>3</sup> /h dB(A) mm	28 2.4 8.2 28 422/411/402/393/380/368/356 31/30/30/29/29/29	31 835×280×203	9.6 28 3.2 10.9 28 02/386/370/353/338/316 ./30/30/30/29/29/29	

Model			MI2-36GDN1	MI2-45GDN1	MI2-56GDN1
Power supply				1 phase, 220-240V, 50Hz	
	Capacity	kW	3.6	4.5	5.6
Cooling <sup>1</sup>	Capacity	kBtu/h	12.3	15.4	19.1
Power input	W	30	40	45	
Capacity	kW	4.0	5.0	6.3	
Heating <sup>2</sup>	Capacity	kBtu/h	13.6	17.1	21.5
	Power input	W	30	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	747/713/685/648/613/578/547
Sound pressure lev	vel <sup>4</sup>	dB(A)	33/32/32/31/31/30/30	35/34/33/33/32/31/31	38/37/36/36/35/34/34
	Net dimensions <sup>5</sup> (WxHxD)	mm		990×315×223	
Unit	Packed dimensions (WxHxD)	mm		1085×420×335	
Net/Gross weight		kg	11.4/15.5	12.8	/16.9
Pine connections	Liquid/Gas pipe	mm	Φ6.35,	φ12.7	Φ9.53/Φ15.9
Pipe connections Drain pipe		mm	OD Φ16		

Model			MI2-71GDN1	MI2-80GDN1	MI2-90GDN1	
Power supply				1 phase, 220-240V, 50Hz		
Capacity		kW	7.1	8.0	9.0	
Cooling <sup>1</sup>	Capacity	kBtu/h	24.2	27.3	30.7	
	Power input	W	55	55	82	
	Capacity		8.0	9.0	10.0	
Heating <sup>2</sup>	Capacity	kBtu/h	27.3	30.7	34.1	
	Power input	W	55	55	82	
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	1421/1300/1125/1067/1005/934/867	
Sound pressure lev	vel <sup>4</sup>	dB(A)	44/43/42/39/38/37/36	44/43/42/39/38/37/36	48/46/45/43/41/40/38	
	Net dimensions <sup>5</sup> (WxHxD)	mm		1194×343×262		
Unit Packed dimensions (WxHxD)		mm	1290×375×460			
	Net/Gross weight	kg		17.0/22.4		
Pipe connections	Liquid/Gas pipe	mm		Φ9.53/Φ15.9		
ripe connections	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

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



Model		MI2-36DLDN1	MI2-45DLDN1	MI2-56DLDN1	MI2-71DLDN1		
Power supply			1 phase, 220-240V, 50Hz				
		kW	3.6	4.5	5.6	7.1	
Cooling <sup>1</sup>	Cooling <sup>1</sup> Capacity	kBtu/h	12.3	15.4	19.1	24.2	
Power input	Power input	w	49	115	115	115	
		kW	4.0	5.0	6.3	8.0	
Heating <sup>2</sup>	Capacity	kBtu/h	13.6	17.1	21.5	27.3	
Power input	Power input	w	49	115	115	115	
Air flow rate <sup>3</sup>		m³/h	550/525/500/480/460/440/420	930/895/860/830/792/755/720			
Sound pressure le	vel <sup>4</sup>	dB(A)	40/39/38/38/37/36/36		43/42/41/41/39/38/38		
	Net dimensions <sup>5</sup> (WxHxD)	mm	990×660×203				
Unit Packed dimensions (WxHxD) mm		mm	1089×744×296				
	Net/Gross weight	kg 26/32 28/34		28/34			
<b>D</b> :	Liquid/Gas pipe mm		Φ6.35/Φ12.7 Φ9.53/Φ15.9			/Φ15.9	
Pipe connections	Drain pipe	mm	OD Φ16				

Model			MI2-80DLDN1	MI2-90DLDN1	MI2-112DLDN1	MI2-140DLDN1		
Power supply				1 phase, 220-240V, 50Hz				
		kW	8.0	9.0	11.2	14.0		
Cooling <sup>1</sup>	Capacity	kBtu/h	27.2	30.7	38.2	47.8		
	Power input	w	130	130	180	180		
	Constitut	kW	9.0	10.0	12.5	15.0		
Heating <sup>2</sup>	Capacity	kBtu/h	30.7	34.1	42.7	51.2		
	Power input	×	130	130	180	180		
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 lev	vel <sup>4</sup>	dB(A)	45/44/43/43/42/41/40		47/46/45/45/44/43/42			
	Net dimensions <sup>5</sup> (WxHxD)	mm	1280×660×203		1670×680×244			
Unit	Packed dimensions (WxHxD)	mm	1379×7	/44×296	1915×760×330			
	Net/Gross weight	kg	35,	/41	48/58			
	Liquid/Gas pipe	mm		Ф9.53	3/Ф15.9			
Pipe connections	Drain pipe	mm		OD	Ф16			

#### 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

	al wireless remot controller		tional wired controller
RM12D	RM05B	WDC-86E/KD	WDC-120G/WK

Model			MI2-22F3DN1	MI2-28F3DN1	
Power supply			1 phase, 220-240V, 50Hz		
	Capacity	kW	2.2	2.8	
Cooling <sup>1</sup>	Capacity	kBtu/h	7.5	9.6	
	Power input	W	40	45	
	Consolitie		2.4	3.2	
Heating <sup>2</sup>	Capacity	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 lev	vel <sup>4</sup>	dB(A)	36/35/34/33/31/30/29	36/35/34/33/31/30/29	
	Net dimensions <sup>5</sup> (WxHxD)	mm	840×545×212		
Unit	Packed dimensions (W×H×D)	mm	925×63	39×305	
	Net/Gross weight	kg	21/2	25.5	
Liquid/Gas pipe		mm	Ф6.35/Ф12.7		
Pipe connections	Drain pipe	mm	Φ	16	

Model			MI2-36F3DN1	MI2-45F3DN1	
Power supply			1 phase, 220-240V, 50Hz		
	Capacity	kW	3.6	4.5	
Cooling <sup>1</sup>	Capacity	kBtu/h	12.3	15.4	
	Power input	W	55	60	
Capacity	Capacity	kW	4.0	5.0	
Heating <sup>2</sup>	Capacity	kBtu/h	13.6	17.1	
	Power input	W	55	60	
Air flow rate <sup>3</sup>		m³/h	624/591/557/522/473/420/375	660/625/583/542/501/475/440	
Sound pressure le	vel <sup>4</sup>	dB(A)	37/36/35/34/32/31/30	37/36/35/34/32/31/30	
	Net dimensions <sup>5</sup> (WxHxD)	mm	1036×639×305		
Unit	Packed dimensions (W×H×D)	mm	1125×6	539×305	
	Net/Gross weight	kg	25.5/30.5		
Pipe connections	Liquid/Gas pipe	mm	Ф6.35	/Φ12.7	
Pipe connections	Drain pipe	mm	¢	016	

Model			MI2-56F3DN1	MI2-71F3DN1	MI2-80F3DN1
Power supply				1 phase, 220-240V, 50Hz	
1 Capacity		kW	5.6	7.1	8.0
Cooling <sup>1</sup>	Capacity	kBtu/h	19.1	24.2	27.3
Power input	Power input	W	88	110	130
C	kW	6.3	8.0	9.0	
Heating <sup>2</sup>	Capacity	kBtu/h	21.5	27.3	30.7
	Power input	W	88	110	130
Air flow rate <sup>3</sup>		m³/h	1150/1094/1028/970/925/886/830	1380/1290/1205/1100/1033/955/870	1380/1290/1205/1100/1033/955/870
Sound pressure lev	vel <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
	Net dimensions <sup>5</sup> (WxHxD)	mm		1340×545×212	
Unit	Packed dimensions (W×H×D)	mm		1425×639×305	
	Net/Gross weight	kg	30.5/35.5		32/37
Dipo connections	Liquid/Gas pipe	mm		Φ9.53/Φ15.9	
Pipe connections	Drain pipe	mm	Ф16		

Notes:

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

3. Each model's 7 airflow rate options are listed in order, from highest to lowest.

4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1m in front and 1m above the floor in a semi-anechoic chamber. 5. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments. All specifications are measured at 10Pa external static pressure.



## Floor Standing Unit (Exposed)

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

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



Model	Model		MI2-22F4DN1	MI2-28F4DN1		
wouer			MI2-22F5DN1	MI2-28F5DN1		
Power supply			1 phase, 220-240V, 50Hz			
	Capacity	kW	2.2	2.8		
Cooling <sup>1</sup>	Cooling <sup>1</sup> Power input	kBtu/h	7.5	9.6		
-		W	40	45		
	2 Capacity	kW	2.4	3.2		
Heating <sup>2</sup>	capacity	kBtu/h	8.2	10.9		
	Power input		40	45		
Air flow rate <sup>3</sup>	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 le	vel <sup>4</sup>	dB(A)	36/35/34/33/31/30/29	36/35/34/33/31/30/29		
	Net dimensions <sup>5</sup> (WxHxD)	mm (F4)		96×225		
		mm (F5)	1000×677×220			
Unit	Packed dimensions (W×H×D)	mm (F4)	1089×683×312			
Onit			5) 1182×683×312			
Net/Gross weight		kg (F4)	28/33			
		kg (F5)				
Pipe connections	Liquid/Gas pipe mm		Φ6.35/Φ12.7			
ripe connections	Drain pipe	mm	Ф16			

Model			MI2-36F4DN1	MI2-45F4DN1	
Model			MI2-36F5DN1	MI2-45F5DN1	
Power supply					
	Capacity	kW	3.6	4.5	
Cooling <sup>1</sup>	Capacity	kBtu/h	12.3	15.4	
	Power input	W	55	60	
	Capacity		4.0	5.0	
-leating <sup>2</sup>	Capacity	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	
ound pressure le	vel <sup>4</sup>	dB(A)	37/36/35/34/32/31/30	37/36/35/34/32/31/30	
	Net dimensions <sup>5</sup> (WxHxD)	mm (F4)	1200×5	96×225	
	Net dimensions" (WXHXD)	mm (F5)	1200×6	77×220	
Jnit	Packed dimensions (W×H×D)	mm (F4)	1289×683×312		
////c	Facked dimensions (WATAD)	mm (F5)	1382×683×312		
	Net/Gross weight	kg (F4)	33/38.6		
	Net O 055 Weight	kg (F5)	33/40.7		
Pipe connections	Liquid/Gas pipe	mm	Φ6.35,	/Ф12.7	
Pipe connections	Drain pipe	mm	Φ	16	

Model			MI2-56F4DN1	MI2-71F4DN1	MI2-80F4DN1	
Model		Γ	MI2-56F5DN1	MI2-71F5DN1	MI2-80F5DN1	
Power supply				1 phase, 220-240V, 50Hz		
Capacity		kW	5.6	7.1	8.0	
Cooling <sup>1</sup>	Capacity	kBtu/h	19.1	24.2	27.3	
	Power input	W	88	110	130	
	Capacity	kW	6.3	8.0	9.0	
Heating <sup>2</sup>	Capacity	kBtu/h	21.5	27.3	30.7	
	Power input	W	88	110	130	
Air flow rate <sup>3</sup>	Air flow rate <sup>3</sup> m		1150/1094/1028/970/925/886/830	1380/1290/1205/1100/1033/955/870	1380/1290/1205/1100/1033/955/870	
Sound pressure lev	vel <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		
•	Net dimensions <sup>5</sup> (WxHxD)	mm (F4)	1500×596×225			
	Net dimensions" (WXRXD)	mm (F5)	1500×677×220			
Unit	Packed dimensions (W×H×D)	mm (F4)		1589×683×312		
Unit	Packed dimensions (WARAD)	mm (F5)	1682×683×312			
	Net/Gross weight	kg (F4)	40,	/46	41.5/47.5	
	Net/ Gross weight	kg (F5)	40.4/48.6		41.5/49.5	
Pipe connections	Liquid/Gas pipe	mm		Φ9.53/Φ15.9		
Pipe connections	Drain pipe	mm		Ф16		

#### Notes:

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

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

3. Each model's 7 airflow rate options are listed in order, from highest to lowest.

4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3).

Sound pressure level is measured 1m in front and 1m above the floor in a semi-anechoic chamber.

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

### Console

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

	ontroller	otional wi controlle	r				
Model			MI2-22ZDN1	MI2-28ZDN1	MI2-36ZDN1	MI2-45ZDN1	
Power supply				1 phase, 220-	240V, 50Hz		
	Capacity	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	
	Capacity	kW	2.6	3.2	4.0	5.0	
Heating <sup>2</sup>		kBtu/h	8.9	10.9	13.4	17.1	
	Power input	w	20	25	25	35	
Air flow rate <sup>3</sup>		m³/h	430/401/374/345/302/268/229	510/482/456/430/355/286/229		660/614/561/512/478/436/400	
Sound pressure le	evel <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	
	Net dimensions <sup>5</sup> (WxHxD)	mm	700×600×210				
Unit	Packed dimensions (WxHxD)	mm	810×710×305				
	Net/Gross weight	kg	14/19 15/20				
Dine contractio	Liquid/Gas pipe	mm		Φ6.35	/Φ12.7		
Pipe connections	Drain pipe	mm	OD Φ16				

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

3. Each model's 7 airflow rate options are listed in order, from highest to lowest.

4. Each model's 7 sound pressure levels are listed in order from highest to lowest and correspond to the model's 7 airflow rate options (see Note 3). Sound pressure level is measured 1m in front and 1m above the floor in a semi-anechoic chamber.

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



# **CONTROL SOLUTIONS**

**47** Wireless Remote Controllers

55 Centralized

Controllers

67

BMS Gateways

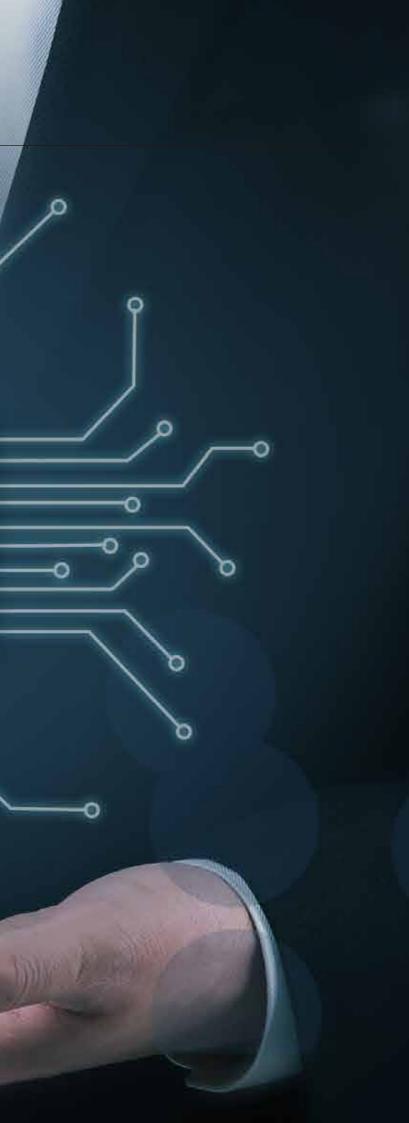
51 Wired Controllers

61

Network Control System

75

Accessories



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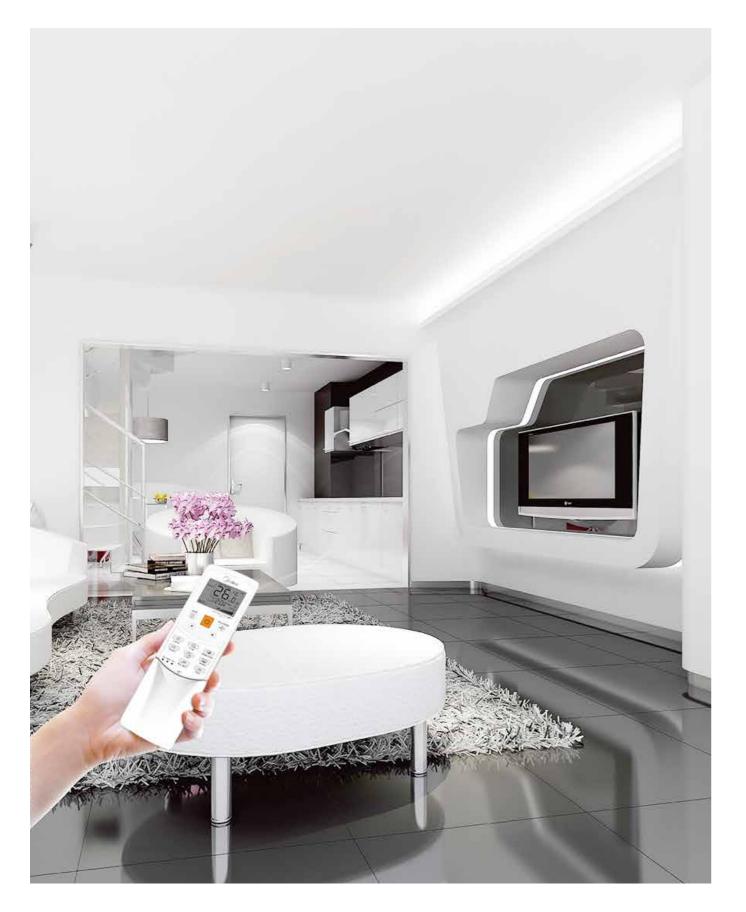
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# CONTROLLER LINEUP

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
The second secon					MD-NIM05/E MD-NIM05B/E
RM12D	WDC-86E/KD	CCM-270A/WS	IMMP-S	GW-LON	Infrared Sensor Controller
				- First	MD-NIMO9
	WDC-120G/WK		CCM-270A/WS	GW-MOD	Diagnosis software
					MCAC-DIAG-B
			IMMP-S		

### **Wireless Remote Controllers**



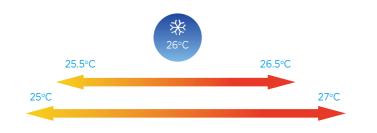
#### Features

Model	RM05B
On / Off	•
Mode selection	•
Temperature setting	• (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
Batteries	



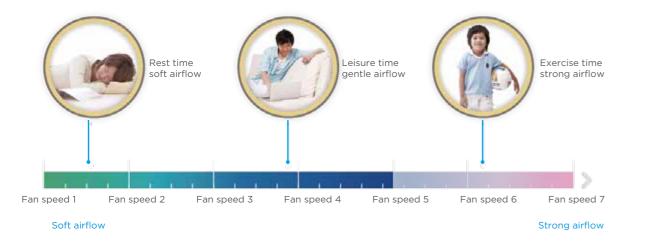
### **Temperature Setting**

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.



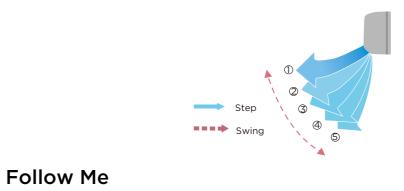
### **Dispaly Shut-off**

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



### **5-step Swing Louver**

programmed via the controller.



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.



#### The air is comfortably spread upwards and downwards thanks to the 5-step swing louver that can be

## Wired Controllers



### Features

Model	WDC-86E/KD
On / Off	•
Mode selection	•
Temperature setting	(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	٠
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
Power supply	18 DC

WDC-86E/K	WDC-120G/WK
•	•
•	•
• (0.5°C or 1°C steps)	• (0.5°C or 1°C steps)
-	•
•	•
•	•
•	•
•	•
•	•
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-	•
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-	•
86x86x18	120x120x20
5V DC	18 DC

### **Group Control**

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



#### Main or Secondary Controller Setting

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





#### 2 Permission Levels

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



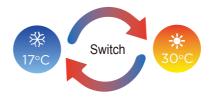
#### **Extension Function**

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



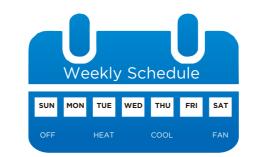
#### **Dual Temperature Set Points**

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



### Weekly Schedule Timer

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



### **Bi-directional Communication**

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



Extension



### **Centralized Controllers**



### Features

Model	CCM-180A/WS	CCM-270A/WS
Max. number of indoor units	64	384
Max. number of outdoor units	32	192
Max. number of refrigerant systems	8	48
Touch screen	• (6.2-inch)	• (10.1-inch)
On / Off		
Mode selection		
Temperature setting	(0 F9C av 19C stars)	• (0.5°C steps)
Dual temperature set points	• (0.5°C or 1°C steps)	(0.5°C steps)
7-speed fan control		
Auto swing		
5-step swing louver		
Room temperature display Outdoor unit Eco mode setting	•	
Holiday setting		
°C/°F display		
Schdule 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
Report display Operation log		electricity consumption report
		•
LAN access		
languages supported	English, French, Spanish	English, French, Spanish
Dimensions (W×H×D) (mm)	182x123x34	270×183×27
Power supply	12V DC	24V AC





### **Touch Screen**

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



### **Electricity Charge Distribution**

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



### **Energy Management**

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

Operation Limit	Unlock	Mode Limit	Unlock		Remote Controller	Unlock	•
Cool Setpoint Limit	Unlock	 Fan Speed Limit	Unlock		Panel Controller	Unlock	
CHINKS	Unlock						
Heat Setpoint Limit	28°C	SwingU&D Limit	Unlock		Арр	ly to Cancel	
	2910						

#### **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.

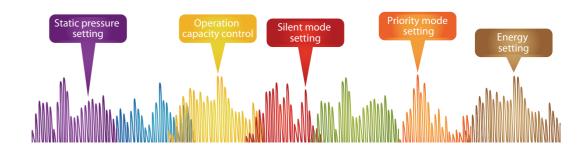


### **Group Management**

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

Grap System 🔒	200 Lints				
Bulling One	60n-	0.0 + 0	0060		
Unit Group 1	23°C	23°C	23°C	23°	1
	20	20	20	2.0	1
And Proce	AD-ONT-OF	ACIMITES	ICANT-0	ACCIVIT-DA	-
Unit Group 3	# @cox	1 800x	☐ ⊕ccct.	· west	-
O Builing Two	23°C	23°C	23°C	23°	3
O Builing Three	ACLAIT OF	Adupt128	aduate1.00	AC-6847-12	1
O Builing Four	A 12 10 10 10 10 10 10 10 10 10 10 10 10 10	9-4 m-	12-0 E		
	H. dom	H 600	- aorr	B \$16.17	-
	23°C	23°C	23°C	23°	1
	Results* ADQART.FL	Action 217	Patricipe	AC LINET - HI	1

### **Outdoor Unit Configuration**







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

### **Unit Model Recognition**

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... Calific & for

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

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Indoor Unit

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October 2019

Indoor Line: 30

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### 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.

· CODOAM Take a rest

12:00AM Take a rest

13:00P5/ Working 13:00Ptil Alter work

The stood story Part for 13:00PM Work

Schedule in Ru

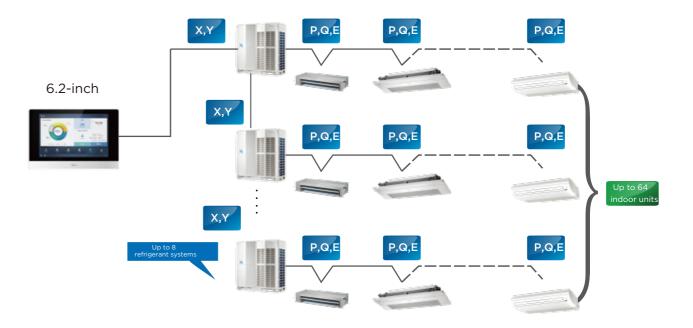
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A desktop or laptop PC can be used for browser-based access via a LAN connection.

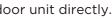




The controllers can be connected to the master outdoor unit directly.







# **Network Control System**



### Features

Software model	
Hardware model	
Max. number per IMM system	10
Max. number of indoor units	2560
Max. number of outdoor units	1280
Max. number of refrigerant systems	320
Temperature setting	• (0.5°C
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, Frenc
Dimensions (W×H×D) (mm)	251×319
Power supply	1 phase, 100-240

P-M	CCM-270A/WS
	10
0	3840
0	1920
0	480
steps)	<ul> <li>(0.5°C steps)</li> </ul>
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ch, Spanish	English, French, Spanish
9×66	270×183×27
0V, 50/60Hz	24V AC

IMMP-S

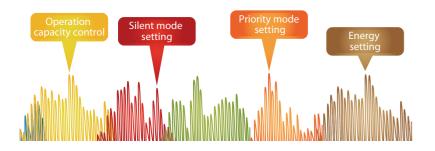
### **User-friendly Interface**

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

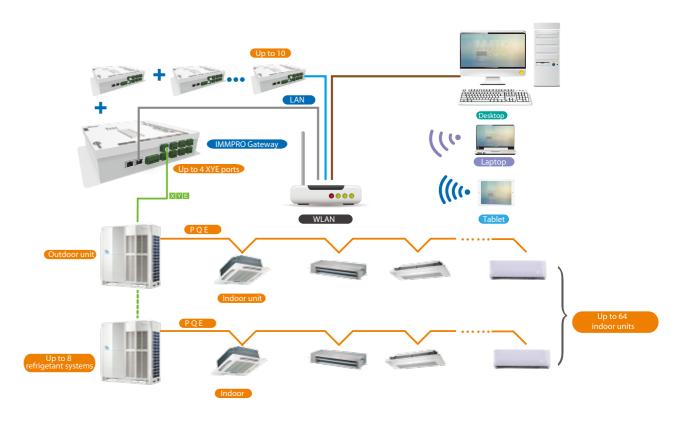
Daily, weekly or annual schedules can be used to set unit settings such as on/off, operating mode, set temperature, fan speed and swing.



### **Xpress Installation**

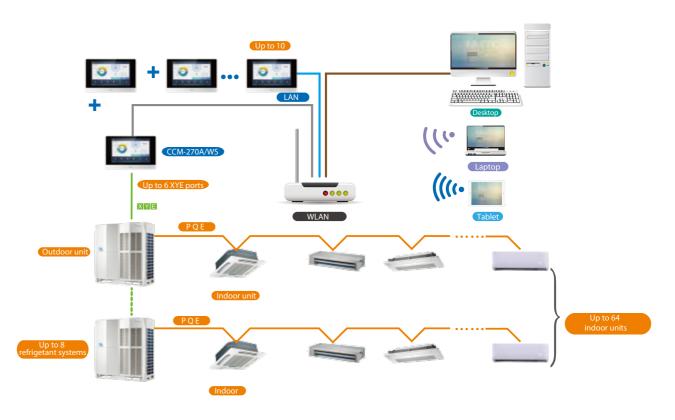
With the Xpress Installation wizard, IMMPRO can be installed quickly and easily without requiring support from a technical support engineer.





### **Network Flexibility**

離時間 •))) •))) Laptop Laptop 3 3 0 or 0 or Tablet M-li M-Inter



LAN access

**Remote VPN access** 

### IMMP-M

### CCM-270A/WS





### **BACnet®** Gateway

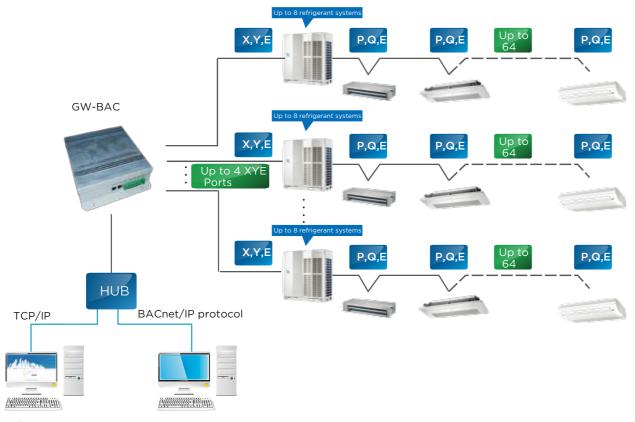
GW-BAC

### **Full Integration**

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

### **Network Flexibility**

The gateway can be connected to master outdoor units' XYE ports directly.



Web acess

BACnet BMS

### Features

Model		GW
Max. number of indo	por units	
Max. number of out	door units	
Max. number of refri	gerant systems	
	On / Off	
	Mode selection	
Control	Temperature setting	
	Fan speed	
	Energy management	
	Room temperature display	
Indoor unit	Error status	
monitoring	Error alarms	
	Operating mode	
	Outdoor ambient temperature	
	Fan speed	
Outdoor unit	Compressor operating frequency	
monitoring	Discharge temperature	
	System pressure	
	Error status	
	Error alarms	
LAN access		
BTL certification		
	Siemens	
	Trane	
Compatibility	Honeywell	
	Schneider	
	Johnson Controls	
Dimensions (HxWxI	)( mm)	
Power supply		
		I

### -BAC

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APOGEE
TRACER
ALERTON
Andover Continuum
METASYS
319×251×61
1 phase, 100-240V, 50/60Hz



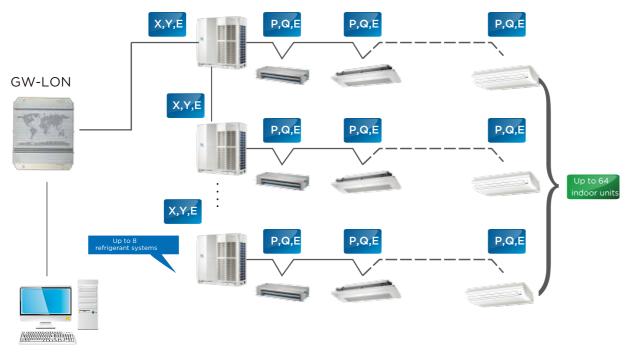
### LonWorks® Gateway

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



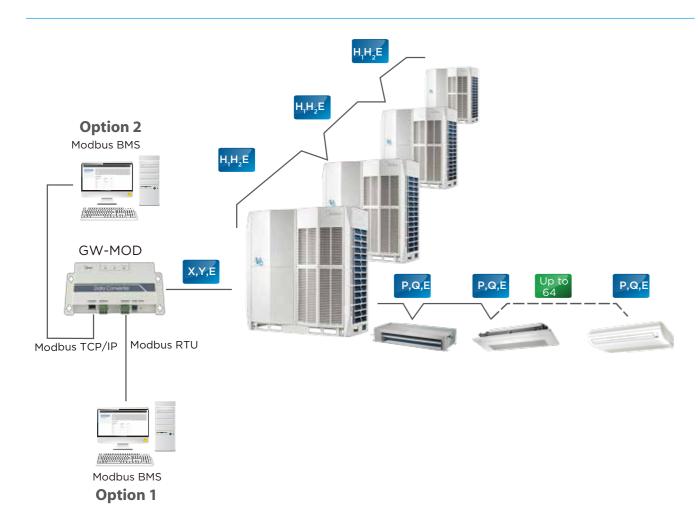
GW-MOD

### **Full Integration**

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

Modbus<sup>®</sup> Gateway

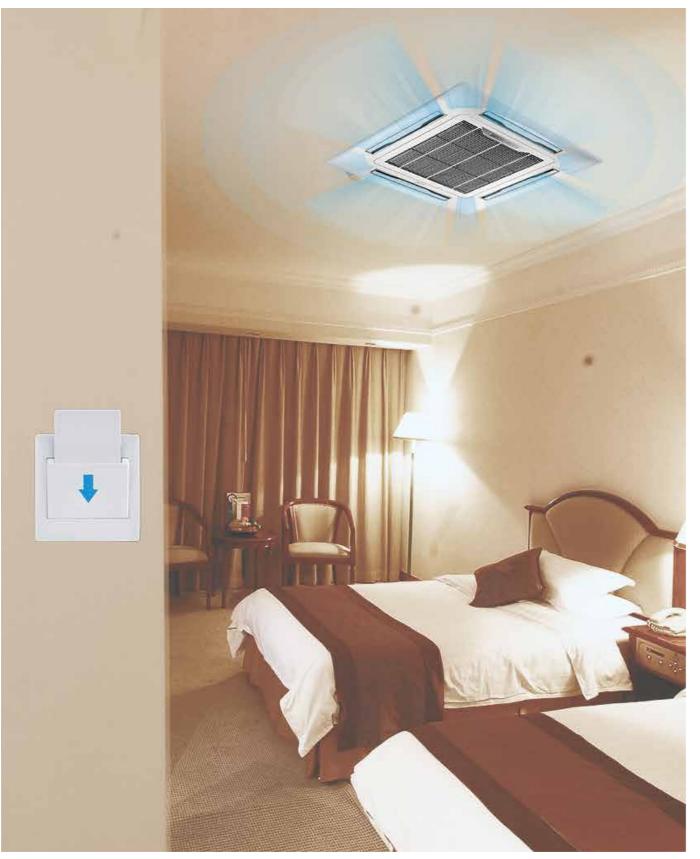
### **Network Flexibility**



### Features

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

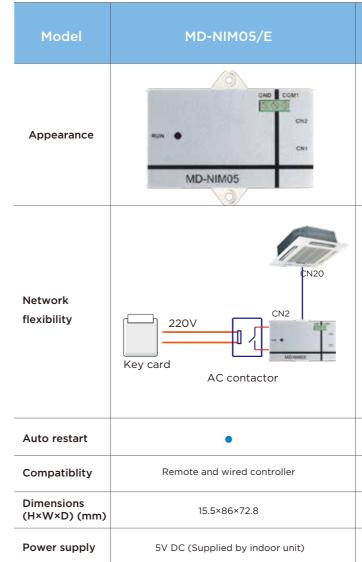
### Hotel Key Card Interface Modules



### **Full Integration**

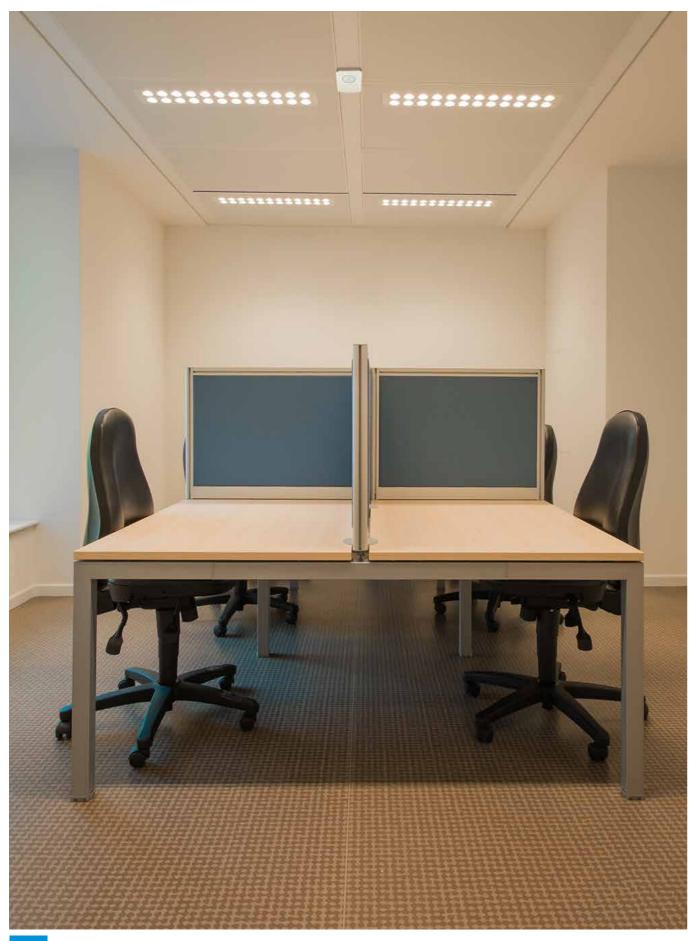
The Hotel Key Card Interface Modules enable power supply to indoor units to be integrated with hotel key card power supply management systems, which are designed to save energy by only running appliances whilst guests are present in their room.

### Features



## MD-NIM05B/E Key card Remote and wired controller 87×150×70 1 phase, 100-240V, 50/60Hz

### **Infrared Sensor Controller**

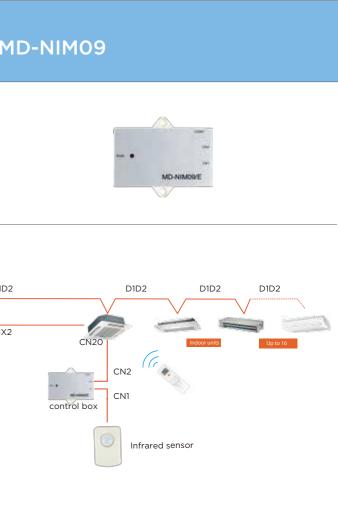


### **Full Integration**

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

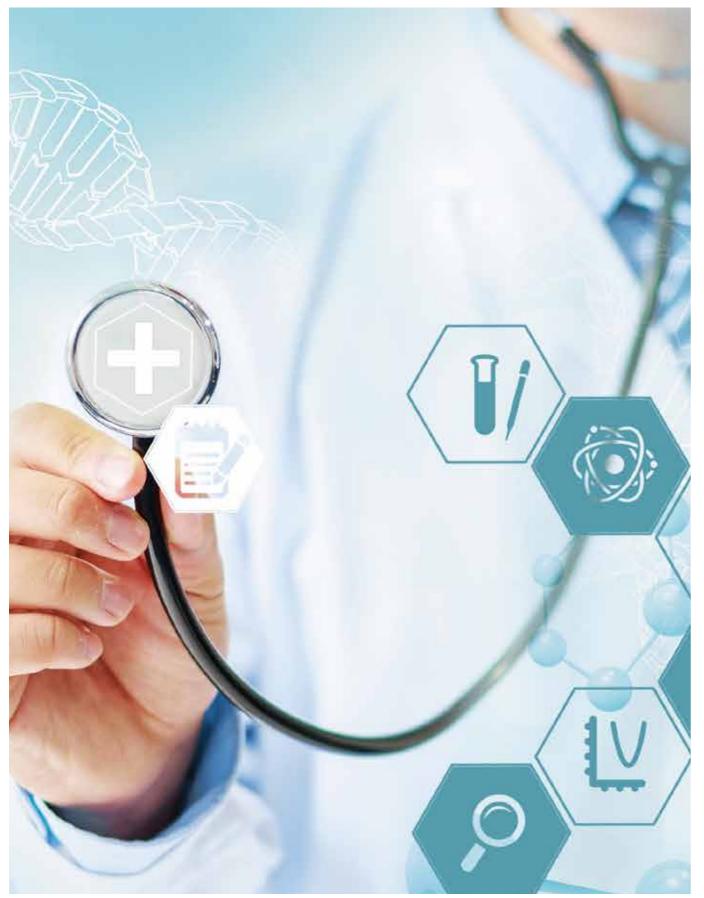
MI
DID2 x1x2 Wired controller
Senso



nsor 46×30×25.6, Control box 86×72.8×15.5

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	MC	AC-DIAG-B
Max. number of ind	loor units	64
Max. number of out	tdoor units	4
Max. number of ref	rigerant systems	1
	Mode selection	•
Control	Temperature setting	•
	Fan speed	•
	Operating mode	•
	Capacity	•
	Compressor operating frequency	•
Outdoor unit	Operating current	•
monitoring	Error status	•
	Temperatures	T3,T4,Tp (See note 1)
	Valve statuses	SV2, SV4, SV5, SV6, ST1 (See note 2)
	EXV position	•
	Operating mode	•
	Capacity	•
Indoor unit	Fan speed	•
monitoring	Address	•
	Temperatures	T1, T2, T2B, TS (See note 3)
	EXV position	•
Error codes		•
Toubleshooting		•
Data logs		•
Diagrams		System schematic, refregetrant flow diagram, parameter cha
Languges supporte	ed	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, refregetrant flow diagram and parameter chart can be generated to provide a graphical interpretation of the system status.

# Bren Cal

### **Parameter Querying**

Access all the system parameters easily.



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



### Wiring Schematic

Data Logs



### **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.





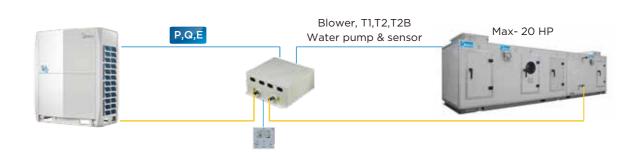
AHUKZ-03B 14-20HP

### Compatible with All VRF Systems

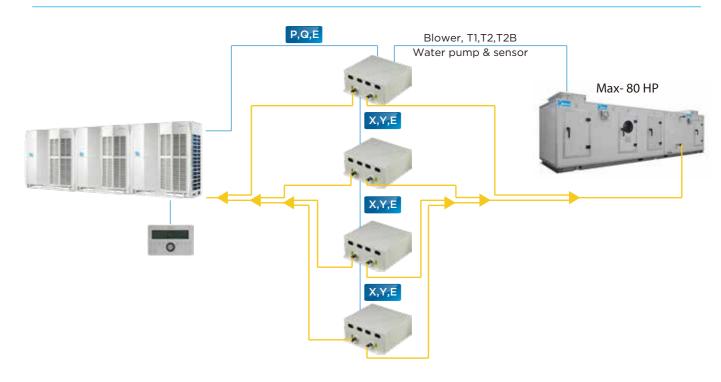
AHU kits are compatible with all Midea VRF outdoor units and can be used together with all types of Midea VRF indoor units.



### Single AHU Control Box Connection



### Multi AHU Control Boxes Connection



### **Specifications**

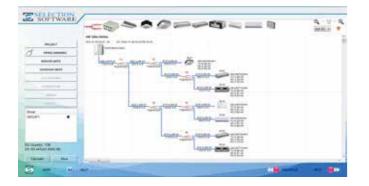
Model		AHUKZ-01B	AHUKZ-02B	AHUKZ-03B		
Capacity	HP	3.2-6	14-20			
Power supply			1 phase, 208-230V, 60Hz			
Refrigerant			R410A			
Pipe connections (inlet and outlet)	mm	Ф8	Ф12.7	Ф15.9		
Net dimensions (W×H×D)	mm	350×150×375				
Packed dimensions (W×H×D)	mm		420×240×490			
Net weight	kg	8.4	8.7	8.9		
Gross weight	kg	11.4	11.7	11.9		
Operating modes		Cooling, heating and fan only				
Standard controller		Wired controller				
Optional controller		Wireless remote controller; SIEMENS controller				

### **Selection Software**

### **High Efficiency**

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

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



Piping diagram

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Wiring diagram

### **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



Z SUHWAN Calculation and Selection Res 

Controller selection

Report







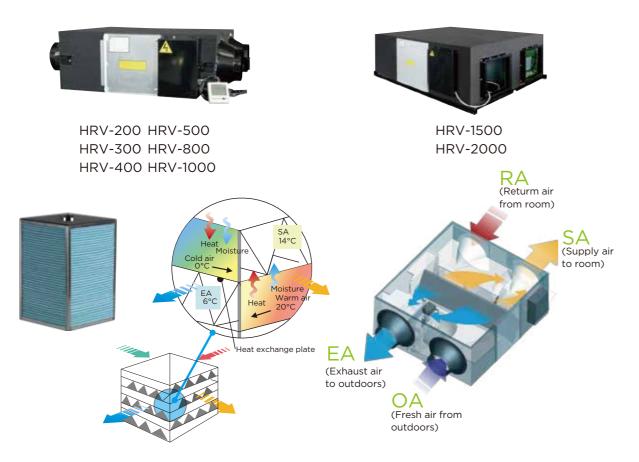
### HEAT RECOVERY VENTILATOR

### **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 guiet 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.

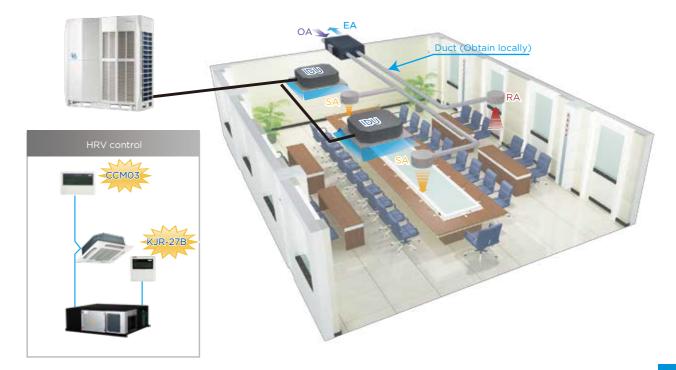
#### Air supply mode

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.

The controller chooses heat exchange Exhaust mode mode or bypass mode according to Exhaust mode is a form of bypass mode where the exhaust the temperature difference between fan is set to run faster than the supply fan, which is useful in outdoors and indoors. Both fans are mild climate installations with large amounts of exhaust air to set to run at low speed. be expelled.

### **Flexible Control**

HRV can be controlled together with other indoor units.



### Heat exchange mode Flement Bypass mode Damp $\cap \Delta$

#### Auto mode

### Specifications

### **AC Series**

Model		HRV-200	HRV-300	HRV-400	HRV-500
Power supply	V/Ph/Hz	220-24	0/1/50	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)	m³/h	200/200/150	300/300/225	400/400/300	500/500/375
External static pressure (H/M/L)	Ра	75/58/35	75/60/40	80/65/43	80/68/45
Motor type		AC			
Duct diameter	mm	Ф144	Ф144	Ф144	Ф194
Net dimensions (WxDxH)	mm	866×655×264	944×722×270	944×927×270	1038×1026×270
Packed dimensions (WxDxH)	mm	960×770×445	1020×810×452	1020×1020×452	1120×1120×452
Net weight	kg	23	26	31	41
Gross weight	kg	40	44	52	64
Operating temperature range	°c		-7 to 43 DB, RI	1 80% or lower	

Model		HRV-800	HRV-1000	HRV-1500	HRV-2000
Power supply	V/Ph/Hz	220-240/1/5	0 & 220/1/60	380-415/3/50	0 & 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)	m³/h	800/800/600	1000/1000/750	1500	2000
External static pressure (H/M/L)	Pa	100/82/54	100/85/58	160	170
Motor type		AC			
Duct dimensions	mm	Φ242	Φ242	346×326	346×326
Net dimensions (WxDxH)	mm	1286×1006×388	1286×1256×388	1600×1270×540	1650×1470×540
Packed dimensions (WxDxH)	mm	1380×1100×573	1400×1370×573	1710×1410×720	1760×1610×720
Net weight	kg	62	79	163	182
Gross weight	kg	88	110	224	247
Operating temperature range		-7 to 43 DB, RI	H 80% or lower		

#### Note:

Models HRV-200 to HRV-1000 each have have 3 airflow settings; the airflow rates of the HRV-1500 and HRV-2000 are not adjustable.
 Sound level is measured 1.4m below the center of the unit in an semi-anechoic chamber.
 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	m³/h	200	300	400	500	
External static pressure	Ра	75	75	80	80	
Motor type		DC				
Duct diameter	mm	Ф144	Ф144	Ф144	Ф194	
Net dimensions (WxDxH)	mm	852×665×264	928×734×270	928×940×270	1020×1036×270	
Packed dimensions (WxDxH)	mm	910×710×430	980×774×435	1010×1010×440	1120×1120×452	
Net weight	kg	25	27	32	35	
Gross weight	kg	37	40	46	51	
Operating temperature range	°c	-7 to 43 DB, RH 80% or lower				

Model		HRV-D800	HRV-D1000	HRV-D1500	HRV-D2000	
Power supply	V/Ph/Hz		220-240/	1/50(60)		
Cooling temp. exchange efficiency	%	76.9	75.8	77.8	77.2	
Cooling enthalpy exchange efficiency	%	78.1	76.9	79.2	78.7	
Heating temp. exchange efficiency	%	76.9	75.8	77.8	77.2	
Heating enthalpy exchange efficiency	%	80.1	78.6	80.5	80.3	
Sound pressure level	dB(A)	39	40	51	53	
Airflow rate	m³/h	800	1000	1500	2000	
External static pressure	Ра	100	100	160	170	
Motor type		DC				
Duct dimensions	mm	Φ242	Φ242	346×326	346×326	
Net dimensions (WxDxH)	mm	1276×1020×388	1276×1269×388	1600×1270×540	1650×1470×540	
Packed dimensions (WxDxH)	mm	1355×1045×560	1400×1370×573	1710×1410×720	1760×1610×720	
Net weight	kg	58	69	151	165	
Gross weight	kg	77	90	184	198	
Operating temperature range	°c	-7 to 43 DB, RH 80% or lower				

#### Note:

All models each have have 3 airflow setting.
 Sound level is measured 1.4m below the center of the unit in an semi-anechoic chamber.
 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.

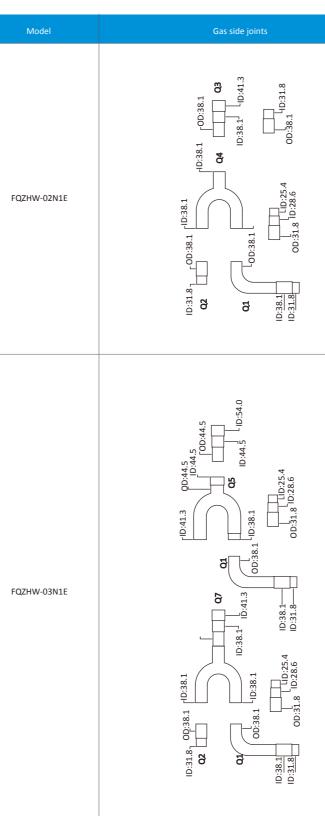
HRV

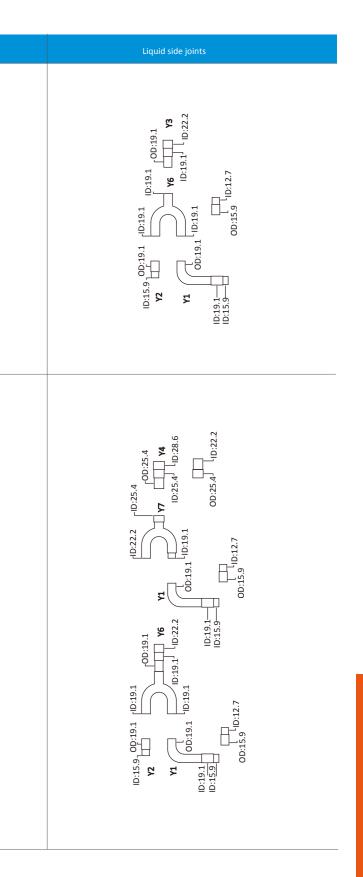
### **BRANCH JOINTS**

Туре	Appearance	Model	Packed Dimensions mm	Gross Weight kg	Note
Branch joints for		FQZHW-02N1E	255×150×185	2.0	Connecting two outdoor units
outdoor units		FQZHW-03N1E	345×160×285	4.3	Connecting three outdoor units
		FQZHN-01D	290×105×100	0.4	/
		FQZHN-02D	290×105×100	0.6	/
		FQZHN-03D	310×130×125	0.9	/
Branch joints for indoor units		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**





**BRANCH JOINTS** 

### Dimensions

### Indoor Branch Joints

Model	Gas side joints	Liquid side joints
FQZHN-01D	00:19.1 10:12.7 10:12.9 10:13.9 10:19.1 10:	0.0.9.5 00.9.5 00.9.5 00.9.5 00.9.5
FQZHN-02D	10:12.7 10:13.1) (10:19.1) (10:19.1) (10:22.2 00:22.2 00:22.2 10:22.2	0 <u>0:12.7</u> 0 <u>0:12.7</u> 0 <u>0:12.7</u> 0 <u>0:12.7</u> 0 <u>0:12.7</u>
FQZHN-03D	10:15.9 10:22.2 10:22.2 00:28.6 00:28.6 00:28.6 00:28.6 00:28.6	00:15.9 00:15.9 00:15.9 00:15.9 00:15.9 00:15.9 00:15.9 00:15.9
FQZHN-04D	D:22.2 D:22.2 D:22.2 D:34.9 OD:35.9 OD	0 <u>0:19.1</u> 0 <u>0:19.1</u> 0 <u>0:19.1</u> 0 <u>0:19.1</u> 0 <u>0:19.1</u> 1 <u>0:19.1</u> 1 <u>0:19.1</u> 1 <u>0:19.1</u> 1 <u>0:19.1</u> 1 <u>0:19.1</u> 1 <u>0:19.1</u> 1 <u>0:12.2</u> 2
FQZHN-05D	D:34.9 D:41.3 D:44.5 OD:41.3 OD:41.3	00:22.2 00:22.2 00:22.2 00:22.2 00:22.2 00:22.2 00:22.2 00:22.2
FQZHN-06D	D:41.3 D:34.9 D:63.5 D:54 D:63.5 D:54 D:63.5	00:22.2 00:22.2 00:22.2 00:22.2 00:22.2 00:22.2
FQZHN-07D	D:41.3 D:41.3 D:41.3 D:41.3 D:41.3 D:63.5 D:63.5	D::15.9 D::19.1 D::2.2.2 D::2.2.2 D::2.2.2 D::2.2.6 D::28.6 D::28.6 D::28.6 D::28.6 D::28.6 D::28.6

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