

Midea



راهنمای جامع سیستم‌های پیشرفته VRF سری V6 میدیا

Midea V6 VRF 2022

 گلدستان
روی خوش زندگی



VRF V6 Series Heat Pump



Indoor Units
VRF indoor units



Fresh Air Processing Unit
100% fresh air supply



Ventilation
Heat recovery ventilator (HRV)



AHU Connection Kit
Connect to Midea or third party DX AHU



Control Systems
Smart control systems



Optimized design for small to large buildings

- ◆ META Technology
- ◆ Zen Air Technology
- ◆ Doctor M Technology
- ◆ Enhanced Vapor Injection (EVI) Compressor
- ◆ Triple Configurations
- ◆ High Efficiency G-Shape Heat Exchanger
- ◆ ESP up to 120Pa
- ◆ Plate Heat (PHE) Subcooling
- ◆ Precise Oil Control Technology
- ◆ Multi Silent Modes
- ◆ Duty Cycling
- ◆ Backup Operation
- ◆ UL Anti-Corrosion Certificate
- ◆ Refrigerant Cooling PCB
- ◆ Auto Snow-blowing Function
- ◆ Dust-clean Function
- ◆ Multi-Functional Diagnosis Box
- ◆ Automatic Refrigerant Detecting/Charging/Recycling



Wide Capacity Range

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

8/10/12HP
(with single fan)



14/16HP
(with single fan)



18/20/22HP
(with dual fans)



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



16-64HP



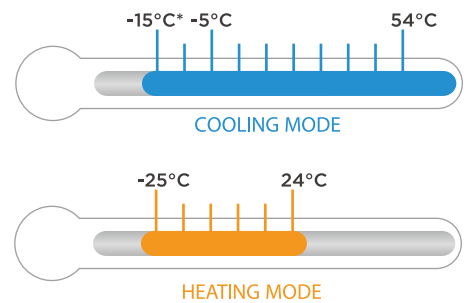
24-96HP



Wide Operating Temperature Range

The V6 VRF can operate stably in a wide ambient temperature range : from -5°C (-15°C*) to 54°C in cooling mode and from -25°C to 24°C in heating mode.

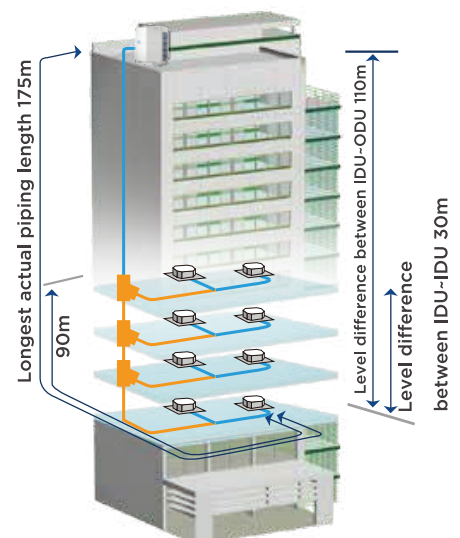
* Cooling operation at -15°C is available as a customization option.



Long Piping Capability

Piping length	Capability (m)
Total piping length	1000
Longest piping length-actual (equivalent)	175 (200)
Longest piping length after first branch	40/90*
Largest level difference between IDUs and ODU-ODU up (down)	90 (110)
Largest level difference between IDUs	30

*The longest length after first branch is 40m as standard but can be extended to up to 90m under certain conditions. Please contact your local dealer for further information.





VRF V6 Series - Heat pump

415V,3N,50(60)Hz

Capacity		HP	8	10	12	14
Model			MV6-252WV2GN1	MV6-280WV2GN1	MV6-335WV2GN1	MV6-400WV2GN1
Power supply		V/N/Hz	380-415/3/50(60)			
Cooling ¹	Capacity	kW	25.2	28.0	33.5	40.0
		kBtu/h	86.0	95.5	114.3	136.5
	Power input	kW	5.3	6.3	8.7	9.9
	EER	kW/kW	4.75	4.45	3.85	4.05
Heating ² (Nominal)	Capacity	kW	25.2	28.0	33.5	40.0
		kBtu/h	86.0	95.5	114.3	136.5
	Power input	kW	4.6	5.2	6.6	8.5
	COP	kW/kW	5.50	5.40	5.10	4.70
Heating ² (Max)	Capacity	kW	27.0	31.5	37.5	45.0
		kBtu/h	92.1	107.5	128.0	153.5
	Power input	kW	5.16	6.10	7.88	10.27
	COP	kW/kW	5.23	5.16	4.76	4.38
Connectable Indoor Unit	Total capacity		50-130% of outdoor unit capacity			
	Max. quantity		13	16	20	23
Compressors	Type		DC inverter			
	Quantity		1			
Fan motors	Type		DC			
	Quantity		1			
	Max. ESP	Pa	20 default; up to 80 customization option			20 default; up to 120 customization option
Refrigerant	Type		R410A			
	Factory charge		11			13
Pipe connections ³	Liquid pipe	mm	Φ12.7		Φ15.9	Φ15.9
	Gas pipe	mm	Φ25.4		Φ28.6	Φ31.8
Airflow rate	m ³ /h		11000			13000
Sound pressure level ⁴	dB(A)		58			60
Net dimensions (WxHxD)	mm		990×1635×790			1340×1635×850
Packed dimensions (WxHxD)	mm		1090×1805×860			1405×1805×910
Net weight	kg		227			277
Gross weight	kg		242			304
Operating temperature range	Cooling	°C	-5 to 54			
	Heating	°C	-25 to 24			

Capacity		HP	16	18	20	22
Model			MV6-450WV2GN1	MV6-500WV2GN1	MV6-560WV2GN1	MV6-615WV2GN1
Power supply		V/N/Hz	380-415/3/50(60)			
Cooling ¹	Capacity	kW	45.0	50.0	56.0	61.5
		kBtu/h	153.5	170.6	191.1	209.8
	Power input	kW	12.0	12.5	15.1	18.4
	EER	kW/kW	3.75	4.00	3.70	3.35
Heating ² (Nominal)	Capacity	kW	45.0	50.0	56.0	61.5
		kBtu/h	153.5	170.6	191.1	209.8
	Power input	kW	9.8	10.6	12.7	15.0
	COP	kW/kW	4.60	4.70	4.40	4.10
Heating ² (Max)	Capacity	kW	50.0	56.0	63.0	69.0
		kBtu/h	170.6	191.1	215.0	235.4
	Power input	kW	11.76	12.84	15.29	17.78
	COP	kW/kW	4.25	4.36	4.12	3.88
Connectable Indoor Unit	Total capacity		50-130% of outdoor unit capacity			
	Max. quantity		26	29	33	36
Compressors	Type		DC inverter			
	Quantity		1			
Fan motors	Type		DC			
	Quantity		1			
	Max. ESP	Pa	20 default; up to 120 customization option			
Refrigerant	Type		R410A			
	Factory charge		13			17
Pipe connections ³	Liquid pipe	mm	Φ15.9		Φ19.1	
	Gas pipe	mm	Φ31.8		Φ31.8	
Airflow rate	m ³ /h		13000			17000
Sound pressure level ⁴	dB(A)		61			63
Net dimensions (WxHxD)	mm		1340×1635×850			1340×1635×825
Packed dimensions (WxHxD)	mm		1405×1805×910			
Net weight	kg		277			348
Gross weight	kg		304			368
Operating temperature range	Cooling	°C	-5 to 54			
	Heating	°C	-25 to 24			

Notes:

- (1) Indoor temperature: 26.7°CDB, 19.4°CWB; outdoor temperature: 35°CDB; EN 14511:2018.
- (2) Indoor temperature: 29°CDB, 19°CWB; outdoor temperature: 46°CDB; ISO 15042:2011. As per ESMA.
- (3) Indoor temperature: 20°CDB; outdoor temperature: 7°CDB, 6°CWB; based on Eurovent testing.
- (4) Diameters given are those of the unit's stop valves.
- (5) 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.



VRF V6 Series - Heat pump

415V,3N,50(60)Hz

Capacity		HP	24	26	28
Model			MV6-670WV2GN1	MV6-730WV2GN1	MV6-785WV2GN1
Power supply		V/N/Hz	380-415/3/50(60)		
Cooling ¹	Capacity	kW	67.0	73.0	78.5
		kBtu/h	228.6	249.1	267.8
	Power input	kW	18.1	20.9	24.2
	EER	kW/kW	3.70	3.49	3.25
Heating ² (Nominal)	Capacity	kW	67.0	73.0	78.5
		kBtu/h	228.6	249.1	267.8
	Power input	kW	14.9	17.6	20.7
	COP	kW/kW	4.50	4.15	3.80
Heating ² (Max)	Capacity	kW	75.0	81.5	87.5
		kBtu/h	255.9	278.1	298.6
	Power input	kW	18.07	21.01	24.44
	COP	kW/kW	4.15	3.88	3.58
Connectable	Total capacity		50-130% of outdoor unit capacity		
Indoor Unit	Max. quantity		39	43	46
Compressors	Type		DC inverter		
	Quantity		2		
Fan motors	Type		DC		
	Quantity		2		
	Max. ESP	Pa	20 default; up to 120 customization option		
Refrigerant	Type		R410A		
	Factory charge	kg	22		
Pipe connections ³	Liquid pipe	mm	Φ19.1		Φ22.2
	Gas pipe	mm	Φ31.8		Φ31.8
Airflow rate		m ³ /h	25000		
Sound pressure level ⁴		dB(A)	64		
Net dimensions (WxHxD)		mm	1730×1830×850		
Packed dimensions (WxHxD)		mm	1800×2000×910		
Net weight		kg	430		
Gross weight		kg	453		
Operating temperature range	Cooling	°C	-5 to 54		
	Heating	°C	-25 to 24		

Capacity		HP	30	32
Model			MV6-850WV2GN1	MV6-900WV2GN1
Power supply		V/N/Hz	380-415/3/50(60)	
Cooling ¹	Capacity	kW	85.0	90.0
		kBtu/h	290.0	307.1
	Power input	kW	27.4	31.0
	EER	kW/kW	3.10	2.90
Heating ² (Nominal)	Capacity	kW	85.0	90.0
		kBtu/h	290.0	307.1
	Power input	kW	23.0	25.7
	COP	kW/kW	3.70	3.50
Heating ² (Max)	Capacity	kW	95.0	100.0
		kBtu/h	324.1	341.2
	Power input	kW	27.78	30.67
	COP	kW/kW	3.42	3.26
Connectable	Total capacity		50-130% of outdoor unit capacity	
Indoor Unit	Max. quantity		50	53
Compressors	Type		DC inverter	
	Quantity		2	
Fan motors	Type		DC	
	Quantity		2	
	Max. ESP	Pa	20 default; up to 120 customization option	
Refrigerant	Type		R410A	
	Factory charge	kg	25	
Pipe connections ³	Liquid pipe	mm	Φ22.2	
	Gas pipe	mm	Φ38.1	
Airflow rate		m ³ /h	24000	
Sound pressure level ⁴		dB(A)	64	
Net dimensions (WxHxD)		mm	1730×1830×850	
Packed dimensions (WxHxD)		mm	1800×2000×910	
Net weight		kg	475	
Gross weight		kg	507	
Operating temperature range	Cooling	°C	-5 to 54	
	Heating	°C	-25 to 24	

Notes:

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





Mini VRF Series Heat Pump



Indoor Units
VRF indoor units



Ventilation
Heat recovery ventilator (HRV)



AHU Connection Kit
Connect to Midea or third party DX AHU



Control Systems
Smart control systems



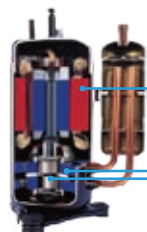
Optimized design for small buildings

- ◆ Two Options: Standard and Mini C Series
- ◆ Capacity Up to 18kw
- ◆ Connectable Indoor Units Quantity up to 9
- ◆ Refrigerant Cooling PCB (Available for Mini C Series Only)
- ◆ Precise Oil Control Technology
- ◆ Advanced Silence Technology
- ◆ Compact, Easy Installation

Inverter Compressor

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

Compressor
(Twin Rotor) structure



Highly Efficient DC Motor:

Creative motor core design
High density neodymium magnet
Concentrated type stator
Wider operating frequency range

Better balance and Extremely Low Vibration:

Twin eccentric cams
2 balance weights





Highly Stable Moving Parts:

Optimal material matching rollers and vanes
Optimize compressor drive technology
Highly robust bearings
Compact structure



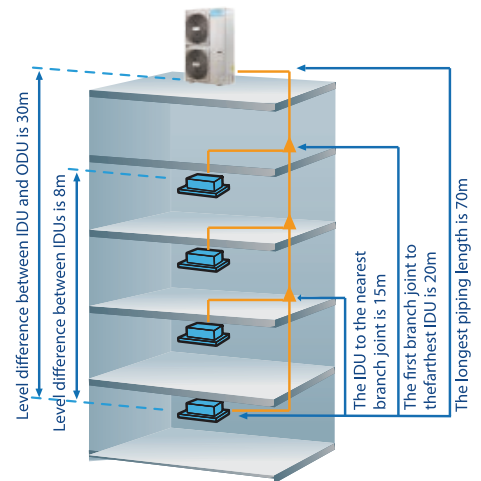
Wide Capacity Range

Mini VRF has two options, standard series and Mini C series. For standard series, it has 4 models from 12kW to 18kW. For Mini C series, it has 5 models from 8kW to 16kW. The Mini VRF is perfect for commercial and residential applications: small offices, villas, apartments, shops, etc.

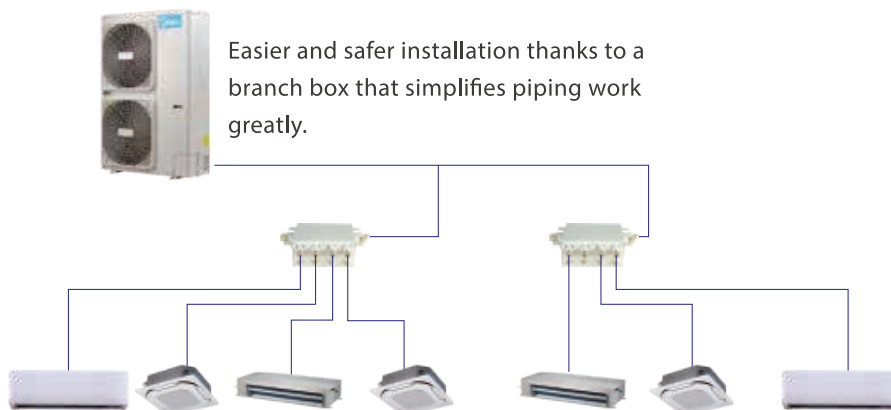
Mini C series			Standard series
8kW	10-12kW	14-16kW	12-18kW
			

Long Piping Capability

Piping length	Capability (m)			
	Mini C series			Standard series
	8kW	10-12kW	14-16kW	12-18kW
Total piping length	50	65	100	100
Longest piping length-actual (equivalent)	35 (40)	45 (50)	60 (70)	60 (70)
Longest piping length after first branch	20	20	20	20
Longest piping length after nearest branch	15	15	15	15
Largest level difference between IDUs and ODU-ODU up (down)	10 (10)	20 (20)	30 (20)	30 (20)
Largest level difference between IDUs	8	8	8	8



More Convenient Piping Connector – Branch Box

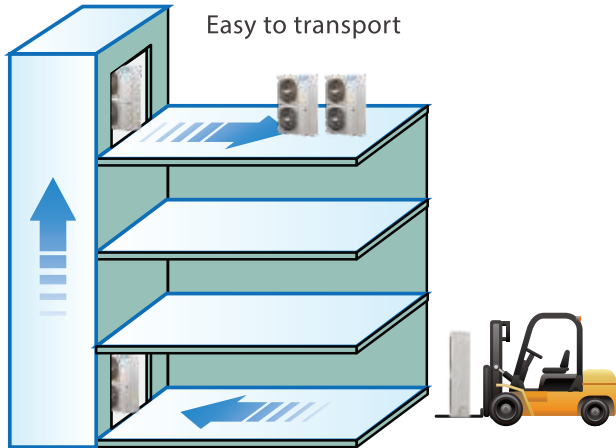


Easier and safer installation thanks to a branch box that simplifies piping work greatly.



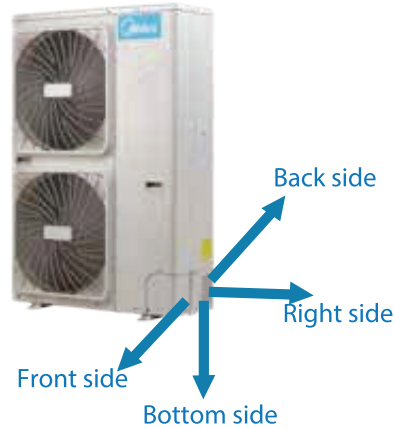
Easy Installation

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



Four-Way Piping Connection

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



Mini VRF (Mini C series) - Heat Pump

240V, 1N, 50(60)Hz

HP		3		4		4.5	
Model		MDV-V80W/DHN1(C)		MDV-V100W/DHN1(C)		MDV-V120W/DHN1(C)	
Power supply		V/N/Hz		220-240/1/ 50(60)			
Cooling ¹	Capacity	kW	8.0	10.0	12.0		
		kBtu/h	27.3	34.1	40.9		
	Power input	kW	2	2.55	3.1		
	EER		4	3.92	3.87		
Heating ²	Capacity	kW	9.0	12.0	14.0		
		kBtu/h	30.7	40.9	47.8		
	Power input	kW	1.95	2.97	3.45		
	COP		4.62	4.04	4.06		
Connectable indoor unit	Total capacity	45~130% of outdoor unit capacity					
	Max. quantity	4	6	7			
Compressor	Type	DC inverter					
	Quantity	1					
Fan motor	Type	DC					
	Quantity	1					
Refrigerant	Type	R410A					
	Factory charge	kg	2.2	2.35	3		
Pipe connections ³	Liquid pipe	mm	Φ9.53				
	Gas pipe	mm	Φ15.9				
Airflow rate	m ³ /h	3700	5200	5000			
Sound pressure level	dB(A)	54	54	56			
Net dimensions (W×H×D)	mm	982×712×440	950×840×426				
Packed dimensions (W×H×D)	mm	1048×810×485	1025×950×510				
Net weight	kg	53	71.5	83			
Gross weight	kg	57.5	81	92			
Operating temperature range	°C	Cooling: -5~55, Heating: -15~27					



Mini VRF (Mini C series) - Heat Pump

240V, 1N, 50(60)Hz

HP			5		6	
Model			MDV-V140W/DHN1(C)		MDV-V160W/DHN1(C)	
Power supply		V/N/Hz	220-240/1/ 50(60)			
Cooling ¹	Capacity	kW	14.0		15.5	
		kBtu/h	47.8		52.9	
	Power input	kW	3.75		4.8	
	EER		3.73		3.23	
Heating ²	Capacity	kW	16.0		18.0	
		kBtu/h	54.6		61.4	
	Power input	kW	3.85		4.65	
	COP		4.16		3.87	
Connectable indoor unit	Total capacity		45~130% of outdoor unit capacity			
	Max. quantity		8		9	
Compressor	Type		DC inverter			
	Quantity		1			
Fan motor	Type		DC			
	Quantity		1			
Refrigerant	Type		R410A			
	Factory charge	kg	3.4		3.8	
Pipe connections ³	Liquid pipe	mm	Φ9.53		Φ9.53	
	Gas pipe	mm	Φ15.9		Φ19.1	
Airflow rate		m ³ /h	5400		5200	
Sound pressure level		dB(A)	56		56	
Net dimensions (W×H×D)		mm	1040×865×523			
Packed dimensions (W×H×D)		mm	1120×980×560			
Net weight		kg	90.4		94.4	
Gross weight		kg	100.4		104.4	
Operating temperature range		°C	Cooling: -5~55, Heating: -15~27			

Mini VRF (Standard Series) - Heat Pump

415V, 3N, 50Hz

HP			4.5	5	6	6.5
Model			MDV-V120W/DRN1	MDV-V140W/DRN1	MDV-V160W/DRN1	MDV-V180W/DRN1
Power supply		V/N/Hz	380-415/3/50			
Cooling ¹	Capacity	kW	12.3	14	15.5	17.5
	Power input	kW	3.25	3.95	4.52	5.3
	EER		3.78	3.54	3.43	3.3
Heating ²	Capacity	kW	13.2	15.4	17	19
	Power input	kW	3.47	4.16	4.77	5
	COP		3.8	3.7	3.56	3.8
Connectable indoor unit	Total capacity		45~130% of outdoor unit capacity			
	Max. quantity		6	6	7	9
Compressor	Type		DC inverter			
	Quantity		1			
Fan motor	Type		DC			
	Quantity		2			
Refrigerant	Type		R410A			
	Factory charge	kg	3.3	3.9	3.9	4.5
Pipe connections	Liquid pipe	mm	Φ9.53			
	Gas pipe	mm	Φ15.9		Φ19.1	
Airflow rate		m ³ /h	6000			6800
Sound pressure level ³		dB(A)	57			59
Net dimensions (W×H×D)		mm	900×1327×400			
Packed dimensions (W×H×D)		mm	1030×1456×435			
Net weight		kg	95	102	107	107
Gross weight		kg	106	113	118	118
Operating temperature range		°C	Cooling: -15~43; Heating: -15~27			

Notes:

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





Compact Four-way Cassette VRF Indoor Units

Optional wireless
remote controller



RM12F

Optional
wired controller



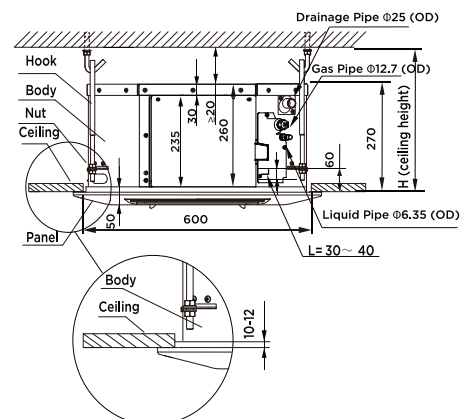
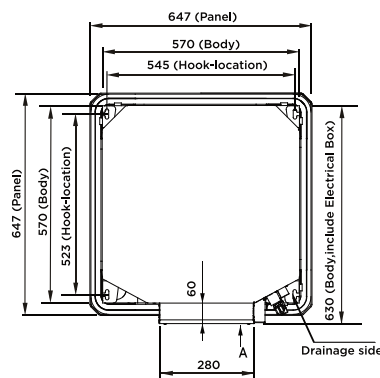
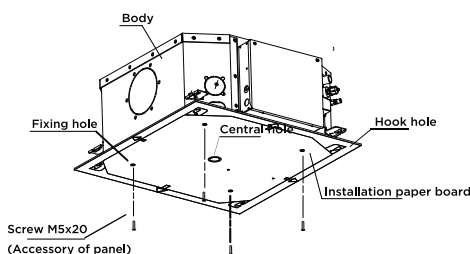
WDC-86E/K



Features

- ◆ 5 models from 1.5~4.5kW
- ◆ 360° airflow allows for even, wide-range cooling and heating
- ◆ 5-step swing louver, making the air flow direction control more precisely
- ◆ Set temperature can be adjusted in 0.5°C or 1°C steps, enabling precise comfort control
- ◆ Indoor unit displays can be shut off at night, creating a better environment for rest
- ◆ The buzzer sound of the indoor unit can be turned off to create a quieter environment
- ◆ Auto restart function is standard, which can also be canceled through the controller
- ◆ Bi-directional communication wired controller can query the indoor and outdoor units' parameters, and also can set the indoor units' parameters
- ◆ Drain pump with 500mm pump head fitted as standard

Installation dimensions (unit:mm)





Specification

Model			MDV-D15Q4/N1-A3(B)	MDV-D22Q4/N1-A3(B)	MDV-D28Q4/N1-A3(B)	MDV-D36Q4/N1-A3(B)	MDV-D45Q4/N1-A3(B)
Power supply			1 phase, 220-240V, 50Hz				
Cooling	Capacity	kW	1.5	2.2	2.8	3.6	4.5
	Input	W	36	50	50	56	56
Heating	Capacity	kW	1.7	2.4	3.2	4	5
	Input	W	36	50	50	56	56
Indoor fan motor	Type		AC				
	Quantity		1				
Refrigerant type			R410A				
Indoor air flow (H/M/L)		m ³ /h	400/283/208	414/313/238	414/313/238	521/409/314	521/409/314
Sound pressure level (H/M/L)		dB(A)	35/33/23	36/33/23	36/33/23	42/36/29	42/36/29
Indoor unit	Dimension (WxHxD)	mm	570×260×630				
	Packing (WxHxD)	mm	675×285×675				
	Net/Gross weight	kg	17/20	17/20	17/20	18.5/21.5	18.5/21.5
Panel	Dimension (WxHxD)	mm	647×50×647				
	Packing (WxHxD)	mm	715×123×715				
	Net/Gross weight	kg	2.5/4.5				
Pipe connections	Liquid pipe	mm	Φ6.35				
	Gas pipe	mm	Φ12.7				
	Drain pipe	mm	ODΦ25				

Notes:

1 Nominal capacity are based on the following conditions:

- Cooling: indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.

- Heating: indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.

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

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





Four-way Cassette VRF Indoor Units

*Optional wireless
remote controller*



RM12F

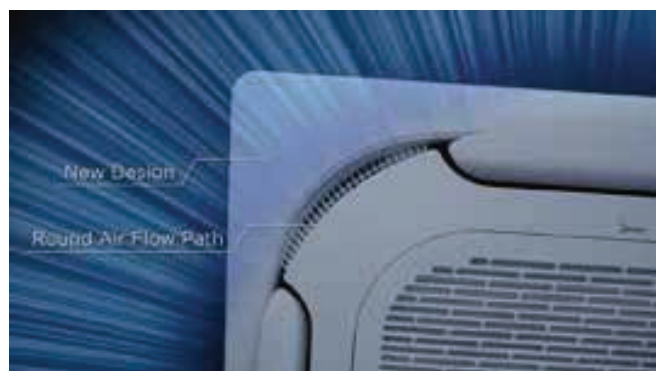
*Optional
wired controller*



WDC-86E/K



New design, round air flow path



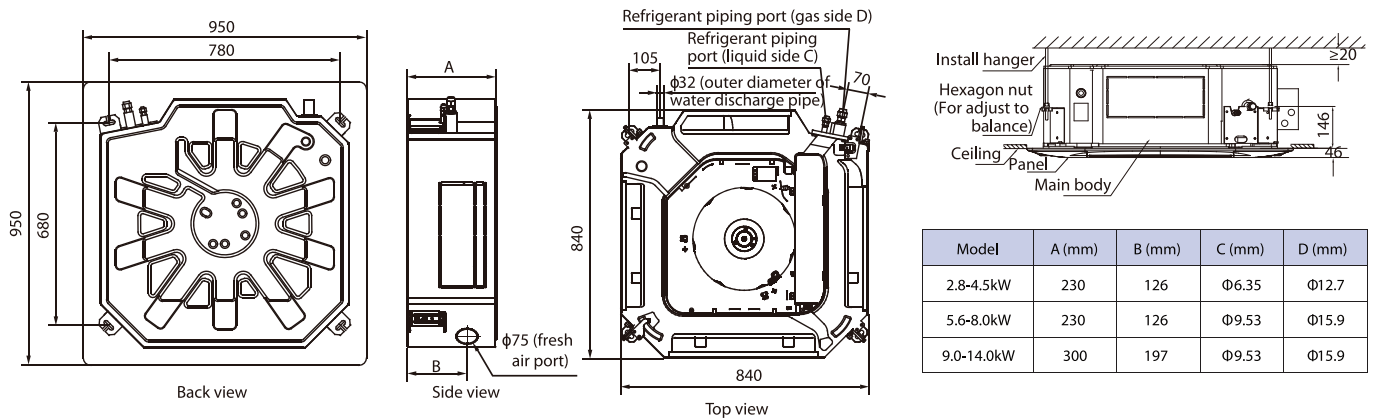
360° round flow, even air distribution



Features

- ◆ 10 models from 2.8-14kW
- ◆ 360° air discharge ensures uniform air flow and temperature distribution
- ◆ Individual louver control to maximally satisfy customer requirement (optional function)
- ◆ In comfort mode, supply air against the ceiling to create windless environment, more comfort
- ◆ 5-step swing louver, making the air flow direction control more precisely
- ◆ Set temperature can be adjusted in 0.5°C or 1°C steps, enabling precise comfort control
- ◆ Indoor unit displays can be shut off at night, creating a better environment for rest
- ◆ The buzzer sound of the indoor unit can be turned off to create a quieter environment
- ◆ Auto restart function is standard, which can also be canceled through the controller
- ◆ Bi-directional communication wired controller can query the indoor and outdoor units' parameters, and also can set the indoor units' parameters
- ◆ High-lift drain pump with 750mm pump head

Installation dimensions (unit:mm)



Specification

Model		MDV-D80Q4/N1-E(B)	MDV-D90Q4/N1-E(B)	MDV-D100Q4/N1-E(B)	MDV-D112Q4/N1-E(B)	MDV-D140Q4/N1-E(B)	
Power supply		1 phase, 220-240V, 50Hz					
Cooling	Capacity	kW	8	9	10	11.2	14
	Power input	W	110	140	165	165	176
Heating	Capacity	kW	9	10	11.1	12.5	16
	Power input	W	110	140	165	165	176
Indoor fan motor	Type	AC					
	Quantity	1					
Refrigerant type		R410A					
Indoor air flow (H/M/L)	m ³ /h	1200/1021/789	1332/1129/908	1651/1304/1127	1651/1304/1127	1658/1335/1130	
Sound pressure level (H/M/L)	dB(A)	42/39/37	43/39/38	45/42/40	45/42/40	46/41/39	
Indoor unit	Dimension (WxHxD)	mm	840×230×840	840×300×840			
	Packing (WxHxD)	mm	955×260×955	955×330×955			
	Net/Gross weight	kg	23.7/28.9	28.7/34.1	28.7/34.1	28.7/34.1	30.9/36.3
Panel	Dimension (WxHxD)	mm	950×50×950				
	Packing (WxHxD)	mm	1035×89×1035				
	Net/Gross weight	kg	5.8/7.9				
Pipe connections	Liquid pipe	mm	Φ9.53				
	Gas pipe	mm	Φ15.9				
	Drain pipe	mm	ODΦ32				

Model		MDV-D56Q4/N1-E(B)	MDV-D71Q4/N1-E(B)	
Power supply		1 phase, 220-240V, 50Hz		
Cooling	Capacity	kW	5.6	7.1
	Power input	W	88	88
Heating	Capacity	kW	6.3	8
	Power input	W	88	88
Indoor fan motor	Type	AC		
	Quantity	1		
Refrigerant type		R410A		
Indoor air flow (H/M/L)	m ³ /h	905/740/651	950/767/663	
Sound pressure level (H/M/L)	dB(A)	36/34/33	38/36/35	
Indoor unit	Dimension (WxHxD)	mm	840×230×840	
	Packing (WxHxD)	mm	955×260×955	
	Net/Gross weight	kg	23.7/28.9	
Panel	Dimension (WxHxD)	mm	950×50×950	
	Packing (WxHxD)	mm	1035×89×1035	
	Net/Gross weight	kg	5.8/7.9	
Pipe connections	Liquid pipe	mm	Φ9.53	
	Gas pipe	mm	Φ15.9	
	Drain pipe	mm	ODΦ32	



Notes:

1 Nominal capacity are based on the following conditions:

- Cooling: indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Heating: indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.

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

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



One-way Cassette VRF Indoor Units

Optional wireless remote controller

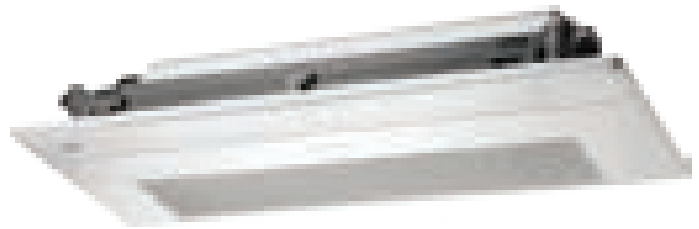


RM12F

Optional wired controller



WDC-86E/K



Meeting corner location requirements and at the same time maintaining the required visual appearance.

Key Features

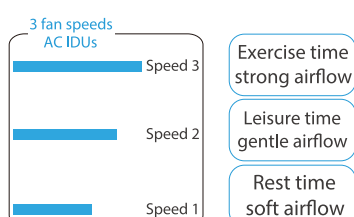
One-way Cassette		
Comfort	Quiet operation	•
	0.5°C/1°C setting temperature adjustment	•
	Digital display on/off	•
	Buzzer sound on/off	•
Health	Fresh air intake	• (45 to 71)
	Dirty filters indicator signal	•
Ari flow	Multiple fan speeds	3+auto
	Multiple steps vertical swing	5+auto
Easy installation	Minimized height	•
	High-lift drain pump	Rated head1200mm Raise height750mm

Note:
•: equipped as standard

AIR FLOW

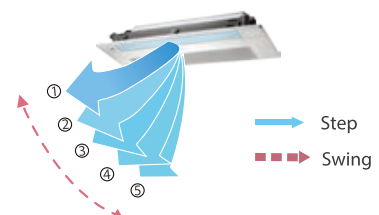
Multiple Fan Speeds

Comes with 3 indoor fan speed options to meet the needs of different indoor conditions.



Multiple Steps Vertical Swing

There are 5-steps louver control makes the air flow direction more precisely. In addition, the auto swing mode can better meet different customer needs.

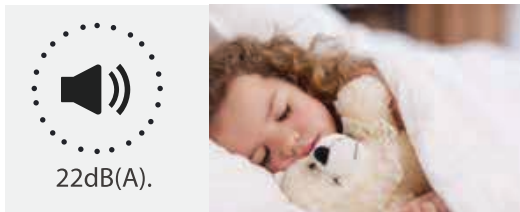




COMFORT

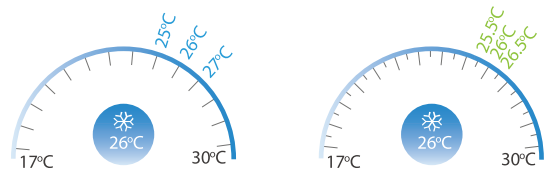
Quiet Operation

The One-way Cassette's optimized, low resistance air outlets reduce noise levels to as low as 22dB(A).



0.5°C/1°C Setting Temperature Adjustment

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



Digital Display On/Off

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



Buzzer Sound On/Off

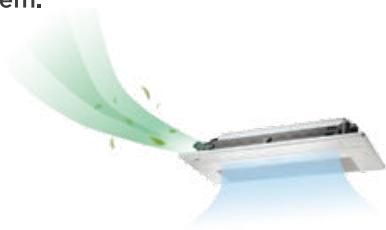
Indoor unit buzzer sound can be set off to not disturb the user, creating a quieter environment.



HEALTH

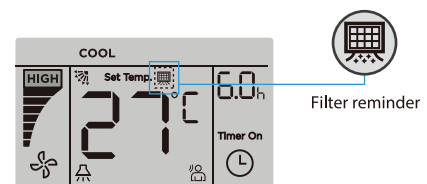
Fresh Air Intake

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



Dirty Filters Indicator Signal

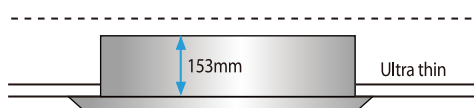
The filter indicator will be on when the running time reaches a certain time to remind user to clean the filter.



EASY INSTALLATION

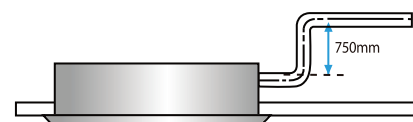
Easy Installation

The slim, compact design make the One-way Cassette ideal for interiors with limited ceiling space. Models 18 to 36 are just 153mm high whilst models 45 to 71 are 189mm high.



High-lift Drain Pump

A drain pump with a 750mm raise height is fitted as standard, simplifying installation of the drain piping.





Specifications 50Hz Series

Power supply		1 phase, 220-240V, 50Hz								
Cooling ¹	Capacity	kW	1.8	2.2	2.8	3.6	4.5	5.6	7.1	
	Input	W	41	41	41	41	48	48	60	
Heating ²	Capacity	kW	2.2	2.6	3.2	4	5	6.3	8	
	Input	W	41	41	41	41	48	48	60	
Indoor fan motor	Type	AC								
	Quantity	1								
Airflow rate(H/M/L)	m ³ /h	523/404/275	523/404/275	573/456/315	573/456/315	693/600/476	792/688/549	933/749/592		
Sound pressure level (H/M/L) ³	dB(A)	37/34/30	37/34/30	39/37/34	39/37/34	41/39/35	42/40/36	44/41/37		
Refrigerant type	R410A									
Indoor unit	Dimension ⁴ (WxHxD)	mm	1054×153×425				1275×189×450			
	Packing (WxHxD)	mm	1155×245×490				1370×295×505			
	Net/Gross weight	kg	12.5/16		13/16.5		18.5/22.8	18.8/23.1	19.5/23.8	
Panel	Dimension (WxHxD)	mm	1180×25×465				1350×25×505			
	Packing (WxHxD)	mm	1232×107×517				1410×95×560			
	Net/Gross weight	kg	3.5/5.2				4/5.4			
Pipe connections	Liquid pipe	mm	Ø6.35				Ø9.53			
	Gas pipe	mm	Ø12.7				Ø15.9			
	Drain pipe	mm	OD Ø25							

Notes:

1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
4. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.





Medium Static Pressure Duct VRF Indoor Units

Optional wireless remote controller



RM12F

Optional wired controller



WDC-86E/K



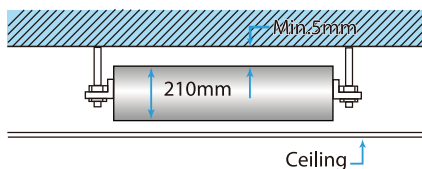
Features

- ◆ 10 models from 2.2-14kW
- ◆ Allows extensive ductwork runs and flexible application: ideal for small or well-insulated rooms, such as hotel bedrooms and small offices
- ◆ Set temperature can be adjusted in 0.5°C or 1°C steps, enabling precise comfort control
- ◆ Indoor unit displays can be shut at night, creating a better environment for rest
- ◆ The buzzer sound of the indoor unit can be turned off to create a quieter environment
- ◆ Auto restart function is standard, which can also be canceled through the controller
- ◆ Bi-directional communication wired controller can query the indoor and outdoor units' parameters, and also can set the indoor units' parameters
- ◆ Flexible installation for the air inlet may be positioned either on the underside or the rear of the unit
- ◆ Drain pump with 750mm pump head fitted as standard

EASY INSTALLATION

Compact Size

Models 22 to 71 are just 210mm high whilst models 80 to 112 are 270mm high and model 140 to 160 are 300mm high.



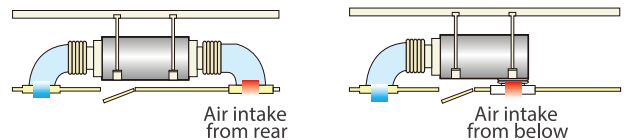
Stylish Air Discharge Panel

Stylish air discharge panel can be integrated with any decoration style (optional for models 17 to 71).



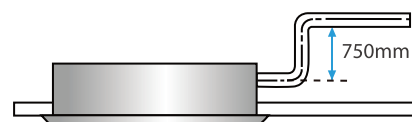
Flexible Air Inlet Port Installation

To provide the flexibility to adapt to differing installation situations, the air inlet may be positioned either on the under side or the rear of the unit.



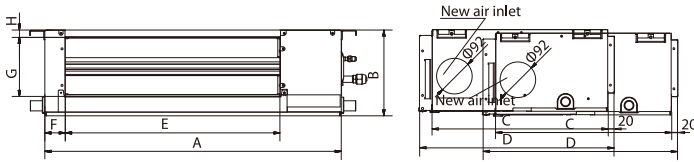
High-lift Drain Pump

A drain pump with a 750mm raise height is fitted as standard, simplifying installation of the drain piping.

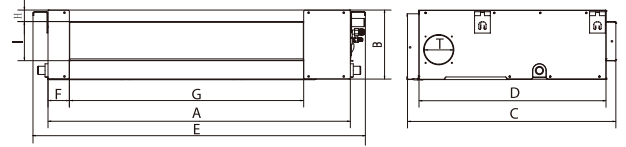


Installation dimensions (unit:mm)

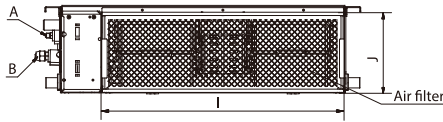
Outline dimension and air outlet opening size



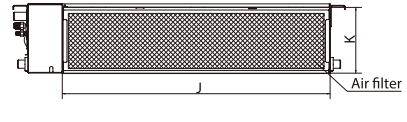
Outline dimension and air outlet opening size



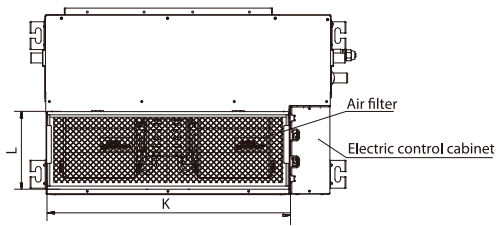
Air return opening size



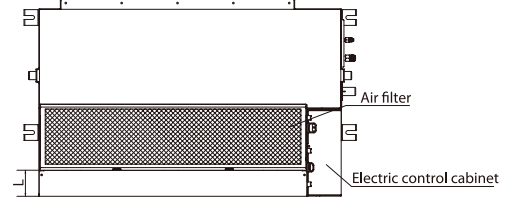
Air return opening size



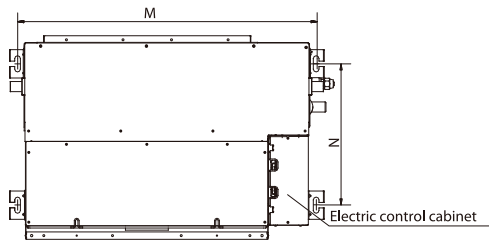
Position size of descensional ventilation opening



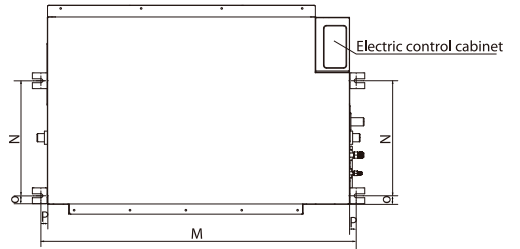
Position size of descensional ventilation opening



Size of mounted lug



Size of mounted lug



Mode	A	B	C	D	E	F	G	H	I	J	K	L	M	N
15~36	700	210	450	500	512	45	145	17	600	196	600	196	740	350
45~56	920	210	450	500	732	45	145	17	820	200	820	200	960	350
71	1140	210	450	500	950	45	145	17	1040	200	1040	200	1180	350

Mode	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
80~112	1140	270	775	710	1230	65	933	35	179	1035	260	20	1180	490	26	20
140	1200	300	865	800	1290	80	968	40	204	1094	288	45	1240	500	26	20
160	1400	300	865	800	1490	85	1169	40	204	1294	288	-	1240	500	26	20



Specification

Model			MDV-D22T2/N1-DA5(B)	MDV-D28T2/N1-DA5(B)	MDV-D36T2/N1-DA5(B)	MDV-D45T2/N1-DA5(B)	MDV-D56T2/N1-DA5(B)
Power supply			1 phase, 220-240V,50Hz				
Cooling	Capacity	kW	2.2	2.8	3.6	4.5	5.6
	Input	W	57	57	61	98	103
Heating	Capacity	kW	2.6	3.2	4	5	6.3
	Input	W	57	57	61	98	103
Indoor fan motor	Type		AC				
	Quantity		1				
Refrigerant type			R410A				
Indoor air flow (H/M/L)		m ³ /h	550/397/309	550/397/309	605/442/351	800/573/479	800/573/479
External static pressure		Pa	10(0~30)	10(0~30)	10(0~30)	10(0~30)	10(0~30)
Sound pressure level (H/M/L)		dB(A)	32/24/21	31/24/21	35/28/24	36/29/26	36/29/27
Indoor unit	Dimension (WxHxD)	mm	778x210x500			997x210x500	
	Packing (WxHxD)	mm	870x285x525			1115x285x525	
	Net/Gross weight	kg	17.5/20			22/25	
Piping connections	Liquid pipe	mm	Φ6.35				Φ9.53
	Gas pipe	mm	Φ12.7				Φ15.9
	Drain pipe	mm	OD Φ25				

Model			MDV-D71T2/N1-DA5(B)	MDV-D80T2/N1-BA5(B)	MDV-D90T2/N1-BA5(B)	MDV-D112T2/N1-BA5(B)	MDV-D140T2/N1-BA5(B)
Power supply			1 phase, 220-240V,50Hz				
Cooling	Capacity	kW	7.1	8	9	11.2	14
	Input	W	140	198	200	313	274
Heating	Capacity	kW	8	9	10	12.5	15.5
	Input	W	140	198	200	313	274
Indoor fan motor	Type		AC				
	Quantity		1				
Refrigerant type			R410A				
Indoor air flow (H/M/L)		m ³ /h	985/738/630	1345/1165/1013	1345/1165/1013	1800/1556/1400	1905/1636/1400
External static pressure		Pa	10(0~30)	20(10~50)	20(10~50)	40(10~80)	40(10~100)
Sound pressure level (H/M/L)		dB(A)	36/30/27	45/40/37	45/40/37	48/42/38	48/43/39
Indoor unit	Dimension (WxHxD)	mm	1218x210x500		1230x270x775		1290x300x865
	Packing (WxHxD)	mm	1335x285x525		1355x350x795		1400x375x925
	Net/Gross weight	kg	27.5/31		37.5/43		46.5/55.5
Piping connections	Liquid pipe	mm	Φ9.53				Φ15.9
	Gas pipe	mm	Φ15.9				Φ15.9
	Drain pipe	mm	OD Φ25				

Model			MI2-160T2DHN1
Power supply			
Cooling ¹	Capacity	kW	16.0
	Power input	W	250
Heating ²	Capacity	kW	18.0
	Power input	W	250
Air flow rate ³		m ³ /h	2300/2100/2000/1900/ 1750/1600/1450
External static pressure		Pa	40 (30~150)
Sound pressure level ⁴		dB(A)	42/41/39/38/37/35/34
Unit	Net dimensions ⁵ (WxHxD)	mm	1490x300x865
	Packed dimensions (WxHxD)	mm	1605x345x955
	Net/Gross weight	kg	54/63
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9
	Drain pipe	mm	OD Φ25

Notes:

1 Nominal capacity are based on the following conditions:

- Cooling: indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.

- Heating: indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.

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

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

3 External static pressure is based on high speed indoor airflow.





Wall Mounted VRF Indoor Unit

Optional wireless remote controller



RM12F

Optional wired controller



WDC-86E/K

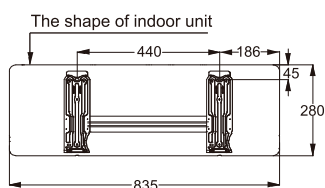


Features

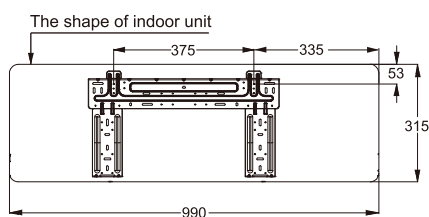
- ◆ 8 models from 2.2-9.0kW
- ◆ Multi-outlet pipe method for both refrigerant pipe and drain pipe: left/right/rear, more flexible for installation
- ◆ 7 indoor fan speeds provide control flexibility to meet the needs of different indoor conditions
- ◆ 5-step swing louver, making the air flow direction control more precisely
- ◆ Set temperature can be adjusted in 0.5°C or 1°C steps, enabling precise comfort control
- ◆ Indoor unit displays can be shut off at night, creating a better environment for rest
- ◆ The buzzer sound of the indoor unit can be turned off to create a quieter environment
- ◆ Auto restart function is standard, which can also be canceled through the controller
- ◆ Bi-directional communication wired controller can query the indoor and outdoor units' parameters, and also can set the indoor units' parameters
- ◆ LED display is standard, digital display can be customized

Installation dimensions (unit:mm)

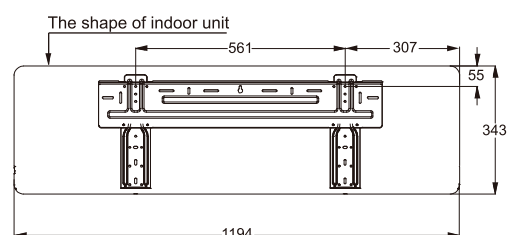
2.2/2.8/3.6kW



4.5/5.6kW



7.1/8.0/9.0kW





Specification

Model			MDV-D22G/N1-M	MDV-D28G/N1-M	MDV-D36G/N1-M	MDV-D45G/N1-M
Power supply			1 phase, 220-240V, 50Hz			
Cooling	Capacity	kW	2.2	2.8	3.6	4.5
	Input	W	29	29	31	45
Heating	Capacity	kW	2.4	3.2	4	5
	Input	W	29	29	31	45
Indoor fan motor	Type		AC			
	Quantity		1			
Refrigerant type			R410A			
Indoor air flow		m ³ /h	446/429/424/409/394/382/373	457/445/433/421/419/410/402	447/429/399/369/339/333/303	648/618/582/563/546/505/476
Sound pressure level		dB(A)	34/33/33/32/32/31/31	33/33/32/32/31/31/31	36/35/34/33/32/32/32	37/36/34/34/33/32/31
Indoor unit	Dimension (WxHxD)	mm	835x280x203			990x315x223
	Packing (WxHxD)	mm	915x353x300			1075x395x300
	Net/Gross weight	kg	8.5/11.0	8.5/11.0	9.7/12.2	13.8/16.4
Pipe connections	Liquid pipe	mm	Ø6.35			
	Gas pipe	mm	Ø12.7			
	Drain pipe	mm	OD Ø16			

Model			MDV-D56G/N1-M	MDV-D71G/N1-M	MDV-D80G/N1-M	MDV-D90G/N1-M
Power supply			1 phase, 220-240V, 50Hz			
Cooling	Capacity	kW	5.6	7.1	8	9
	Input	W	54	77	77	90
Heating	Capacity	kW	6.3	8	9	10
	Input	W	54	77	77	90
Indoor fan motor	Type		AC			
	Quantity		1			
Refrigerant type			R410A			
Indoor air flow		m ³ /h	798/764/723/691/665/627/595	1240/1171/1107/1045/976/914/869	1248/1194/1119/1056/993/914/863	1427/1403/1303/1232/1186/1096/1043
Sound pressure level		dB(A)	42/41/40/39/38/37/36	48/47/45/44/42/39/38	48/47/45/43/42/39/38	52/51/50/49/47/45/43
Indoor unit	Dimension (WxHxD)	mm	990x315x223		1194x343x262	
	Packing (WxHxD)	mm	1075x395x300		1265x420x345	
	Net/Gross weight	kg	13.8/16.4	17.4/20.8	17.6/21.0	17.6/21.0
Pipe connections	Liquid pipe	mm	Ø9.53			
	Gas pipe	mm	Ø15.9			
	Drain pipe	mm	OD Ø16			

Notes:

1 Nominal capacity are based on the following conditions:

- Cooling: indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Heating: indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.

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

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



شرکت مهندسی و مشاوره صنایع مبتکران گلدیران
آدرس: بلوار میرداماد - ضلع شمال شرقی پل مدرس
خیابان البرز - نبش تابان شرقی - پلاک 64
دفتر مرکزی: +9821-23008
فکس: +9821-22223451
ایمیل: MBT@goldiran.ir
آدرس سایت: www.goldiranac.net



گلدیران
روی خونتس زندگی

