



Commercial Air Conditioners 2016



CVC
EMS
GD Midea Heating & Ventilating Equipment Co., Ltd.
Is certified under the ISO 14001 International standard
for environmental management.
Certificate No.15912E10020R0L

TÜVRheinland
CERT
ISO 9001
GD Midea Heating & Ventilating Equipment Co., Ltd.
Is certified under the ISO 9001 International standard
for quality assurance.
NO.01 100 019209

CVC
OHSMS
GD Midea Heating & Ventilating Equipment Co., Ltd.
Certificate of Occupational Health and Safety Management System
Certificate No. 15912S20006R0L-1.

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Note: The data in this book may be changed without notice for further improvement
on quality and performance.



VRF V4+I Series 50Hz

Midea CAC After-service Application



iOS Version

Android Version

Midea CAC News Application



iOS Version

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.

There are 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.



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

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

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

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

2009 >> Launched the DC Inverter V4 globally

2008 >> Developed DC inverter technology with Toshiba

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

1999 >> Entered the CAC field



Midea Company Introduction



Midea CAC Introduction



OUTDOOR UNIT LINEUP



HP	8	10	12	14	16	18	20	22	24	26	28	30	32
	■												
			■										
							■						
								■					
										■			



» OUTDOOR UNITS

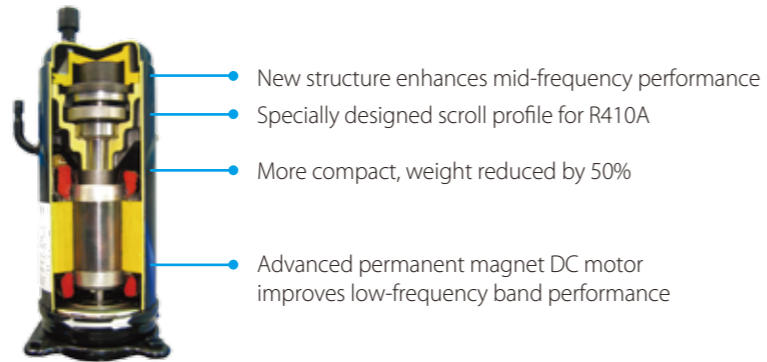
VRF V4+I Series

- High Efficiency
- Wide Application Range
- Enhanced Comfort
- Easy Installation and Service
- Specifications

High Efficiency

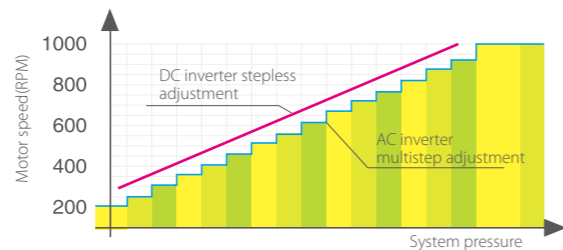
High Efficiency DC Inverter Compressor >>

The DC inverter compressor adopts innovative design and numerous high performance key parts which can reduce power consumption by 25%.



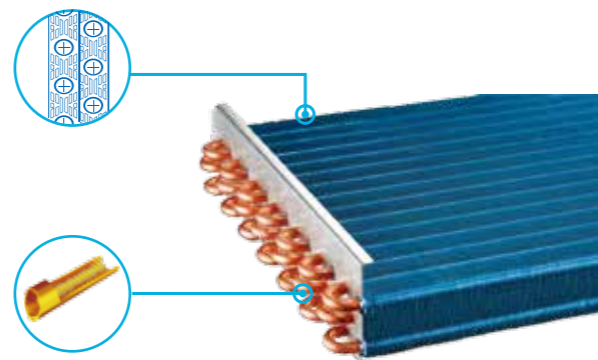
High Efficiency DC Fan Motor >>

The system controls the speed of the fan motor according to the system pressure and system load achieving the minimum power consumption.



High Efficiency Heat Exchanger >>

Newly designed window type fins enlarge the heat exchange area and decrease air resistance, enhance heat exchange performance and save more energy. Hydrophilic fins and internally threaded copper pipes optimize heat exchange efficiency.



Wide Application Range

Wide Capacity Range >>

V4 Plus I Series has extensive capacity ranging from 25.2kW to 90kW, meets all customer requirement concerning small and middle-sized buildings.



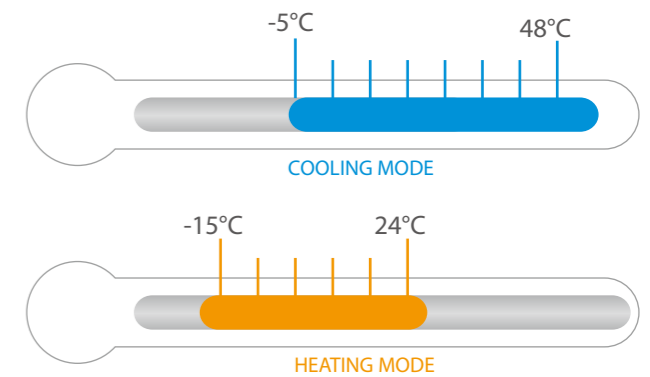
Wide Range of Indoor Units >>

Midea provides 12 types and more than 100 models of VRF indoor units maximum meeting varied customer requirements. It is widely applied in market, hospital, office building, hotel, airport, etc..



Wide Operation Range >>

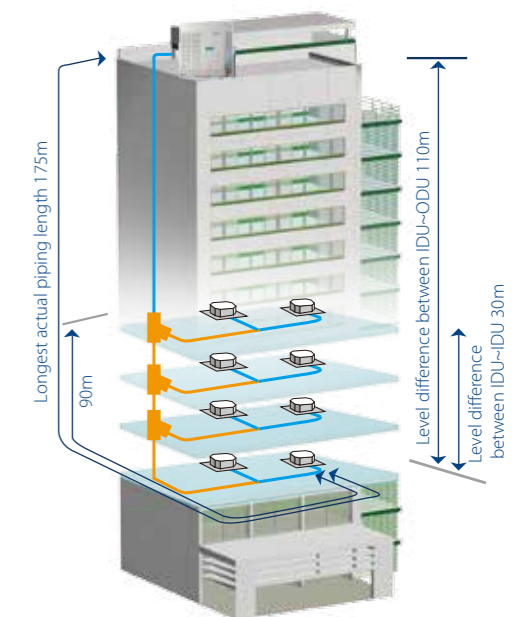
V5X Series operates stably under extreme conditions, ranging from minus 15°C to 48°C.



Long Piping Length >>

	25.2-45kW	56-67kW	73-90kW
Total piping length	350m	1000m	1000m
Longest length actual (Equivalent)	150(175)m	175(200)m	165(190)m
Longest length after first branch	40m	90*m	90*m
Level difference between indoor and outdoor units - ODU up (down)	70(70)m	70(110)m	50(90)m
Level difference between indoor units	15m	30m	30m

*The longest piping length is 40m standard. It can be extended to 90m. When the length is over 40m, please contact your local Midea dealer for more information and restrictions.



Enhanced Comfort

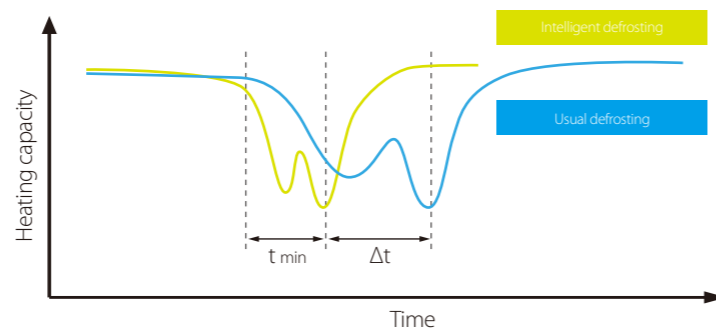
Night Silent Operation Mode >>

Night Silent Mode feature which is easily set on the PCB board allows the unit to be set to various time options during Non-peak and Peak operation time minimizing the units noise output.



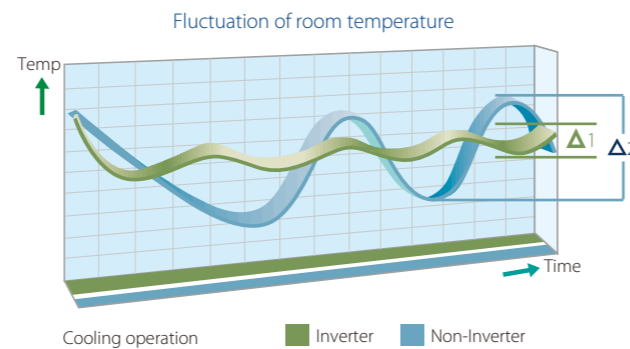
Intelligent Defrosting Technology >>

Intelligent defrosting program will judge the defrosting time according to the system real requirement, reduce heating loss caused by unnecessary defrosting and create more comfort. Defrosting time can be shortened to 4 min. due to the specialized defrosting valve.



Rapid Warm Up And Cool Down Function >>

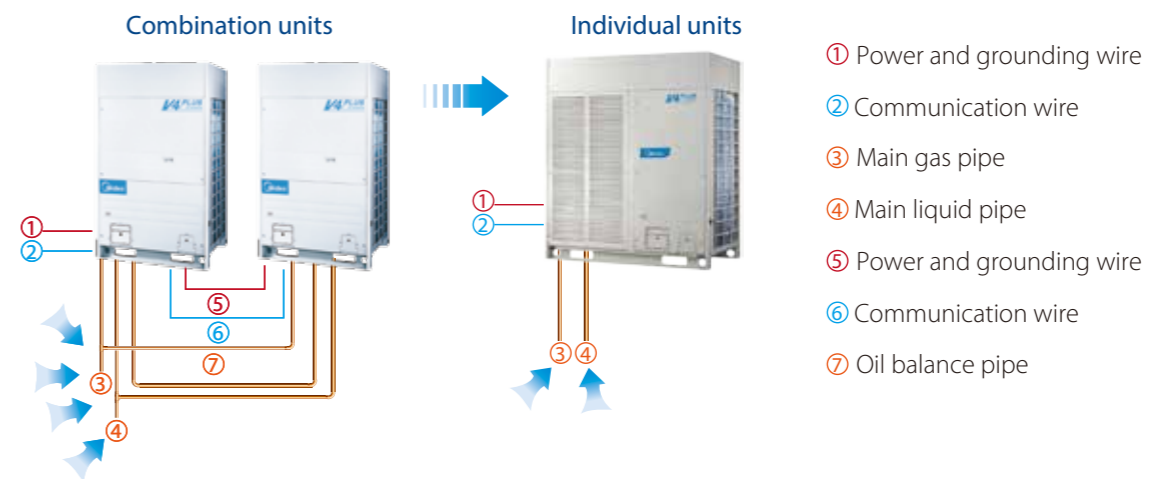
The DC Inverter Compressor system reaches full load rapidly providing less temperature fluctuation and an improved living environment.



Easy Installation and Service

Integrated Design, Easy Installation and Less Leakage Possibility >>

- ❖ Compare with combination units, the individual units don't need complicated piping and wiring at the jobsite. It eliminates the communication wire, power wire, oil balance pipe, and refrigerant distributors between units.
- ❖ There are more brazing joints in the combination system, therefore vapor and moisture can easily enter the system. Thanks to reduced joints in the individual system, it minimizes the possibility of moisture entering the system.



Auto Addressing >>

Outdoor unit can distribute addresses for indoor units automatically. Wireless and wired controllers can query and modify each indoor unit's address.



Easy Maintenance >>

Inspection window for checking the systems status.

Self-diagnosis function helps service engineers locate faults quickly and easily.

Compressor is located near the door, which simplifies checks and enables valve or compressor parts to be replaced easily.



Specifications

VRF V4 Plus I Series - Heat Pump



HP			8	10	12	14
Model MDV-			252W/DRN1-i(B)	280W/DRN1-i(B)	335W/DRN1-i(B)	400W/DRN1-i(B)
Power supply	V/Ph/Hz		380-415/3/50			
Cooling	Capacity	kW	25.2	28	33.5	40
	Power input	kW	5.9	7.2	9.1	12.3
	EER		4.29	3.89	3.7	3.25
	ESEER		7.52	7.34	6.9	6.13
Heating	Capacity	kW	27	31.5	37.5	45
	Power input	kW	6.2	7.6	9	11.2
	COP		4.39	4.14	4.17	4.02
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity				
	Max. quantity		13	16	16	16
Compressor	Type	DC inverter				
	Quantity		1	1	2	3
Fan motor	Type	DC motor				
	Quantity		1	1	2	2
	Max Static Pressure	Pa	20 (default)			
		Pa	40 (customized)			
Refrigerant	Type	R410A				
	Factory charging	kg	10	10	12	15
Pipe connections	Liquid pipe	mm	Φ12.7	Φ12.7	Φ15.9	Φ15.9
	Gas pipe	mm	Φ25.4	Φ25.4	Φ31.8	Φ31.8
Air flow rate	m ³ /h	11000	11000	15000	15000	
Sound pressure level	dB(A)	57	57	58	60	
Sound power level	dB(A)	70	69	70	72	
Sound pressure level	mm	960x1615x765		1250x1615x765		
Packing size (WxHxD)	mm	1025x1790x830		1305x1790x820		
Net weight	kg	205		275		
Gross weight	kg	220		295		
Operating temperature range	°C	Cooling: -5~48; Heating: -15~24				



HP			16	20	22	24
Model MDV-			450W/DRN1-i(B)	560W/DRN1-i(C)	615W/DRN1-i(C)	670W/DRN1-i(C)
Power supply	V/Ph/Hz		380-415/3/50			
Cooling	Capacity	kW	45	56	61.5	67
	Power input	kW	14	17	18.8	20.8
	EER		3.21	3.3	3.27	3.22
	ESEER		6.02	6.21	6.16	6.05
Heating	Capacity	kW	50	63	69	75
	Power input	kW	12.8	16	17.9	19.8
	COP		3.91	3.94	3.86	3.79
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity				
	Max. quantity		20	33	36	39
Compressor	Type	DC inverter +Fixed				
	Quantity		3	3	3	3
Fan motor	Type	DC motor				
	Quantity		2	2	2	2
	Max Static Pressure	Pa	20 (default)			
		Pa	40 (customized)			
Refrigerant	Type	R410A				
	Factory charging	kg	15	17	18.5	18.5
Pipe connections	Liquid pipe	mm	Φ15.9	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ31.8	Φ31.8	Φ31.8	Φ31.8
Air flow rate	m ³ /h	15000	20000	23000	23000	
Sound pressure level	dB(A)	60	62	63	63	
Sound power level	dB(A)	72	74	75	75	
Net dimension (WxHxD)	mm	1250x1615x765	1390x1615x765	1585x1615x765		
Packing size (WxHxD)	mm	1305x1790x820	1455x1790x830	1650x1810x840		
Net weight	kg	325	360	385	390	
Gross weight	kg	345	375	400	405	
Operating temperature range	°C	Cooling: -5~48; Heating: -15~24				

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

Piping length: Interconnecting piping length is 7.5m, level difference is zero.

Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.

VRF V4 Plus I Series - Heat Pump



HP			26	28	30	32
Model MDV-			730W/DRN1-i(C)	785W/DRN1-i(C)	850W/DRN1-i(C)	900W/DRN1-i(C)
Power supply	V/Ph/Hz		380-415/3/50			
Cooling	Capacity	kW	73	78.5	85	90
	Power input	kW	22.3	24.2	28.3	28.5
	EER		3.27	3.24	3	3.16
	ESEER		6.16	6.1	5.6	5.9
Heating	Capacity	kW	81.5	87.5	95	100
	Power input	kW	20.6	22.4	26	26.5
	COP		3.96	3.91	3.65	3.77
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity				
	Max. quantity		43	46	50	53
Compressor	Type	DC inverter +Fixed				
	Quantity		3	3	4	5
Fan motor	Type	AC motor				
	Quantity		4	4	4	4
	Max Static Pressure	Pa	20 (default)			
Pa		40 (customized)				
Refrigerant	Type	R410A				
	Factory charging	kg	27	27	27	27
Pipe connections	Liquid pipe	mm	Φ22.2	Φ22.2	Φ22.2	Φ22.2
	Gas pipe	mm	Φ38.1	Φ38.1	Φ38.1	Φ38.1
Air flow rate	m ³ /h	33100	33100	33100	33100	
Sound pressure level	dB(A)	64	64	65	65	
Sound power level	dB(A)	76	75	77	77	
Net dimension (WxHxD)	mm	2540x1615x765				
Packing size (WxHxD)	mm	2600x1800x825				
Net weight	kg	555		600		
Gross weight	kg	590		635		
Operating temperature range	°C	Cooling: -5~48; Heating: -15~24				

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB/19°C WB; Outdoor temperature 35°C DB/24°C WB; Heating: Indoor temperature 20°C DB/15°C WB; Outdoor temperature 7°C DB/6°C WB.

Piping length: Interconnecting piping length is 7.5m, level difference is zero.

Sound values are measured in a semi-anechoic room, at a position 1m in front of the unit and 1.3m above the floor.