

MINI VRF FULL DC INVERTER

WIDE APPLICATION RANGE

WIDE CAPACITY RANGE

The outdoor units' capacity range from 7.2kW to 45kW which is ideal for small offices, villas, apartment and shops, making it perfect for commercial and residential application.



7.2kW(1.5-8kW), 9.0kW(2-10kW)



12.3kW, 14kW, 15.5kW, 17.5kW



20kW, 22.4kW, 26kW, 40kW, 45kW

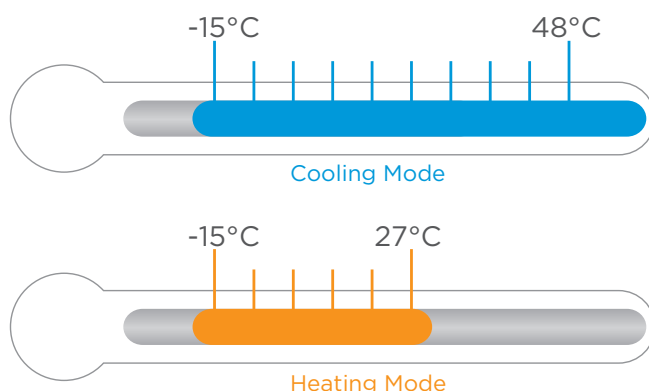
WIDE RANGE OF INDOOR UNITS

Midea provides 12 ranges and more than 100 models of VRF indoor units. These have been proven to meet a wide range of applications including Hotels, Hospitals, Office Blocks, Airports and Sports Stadiums.



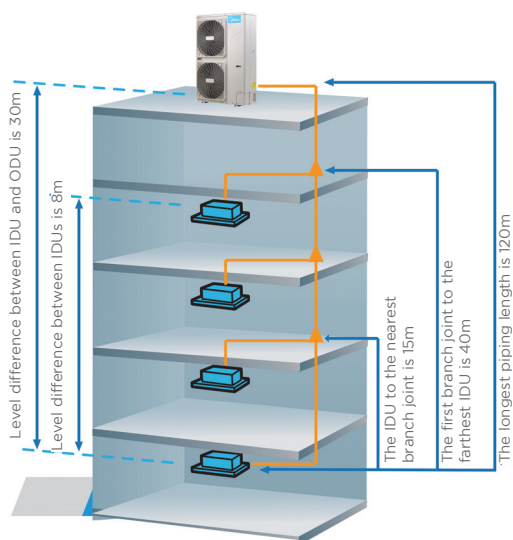
WIDE OPERATION RANGE

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



LONG PIPING LENGTH

The Mini VRF provides a total piping length possibility of 250m, a maximum height difference between outdoor and indoor units of 30m. The height difference between indoor units can be up to 8m. These generous allowances facilitate an extensive array of system designs.

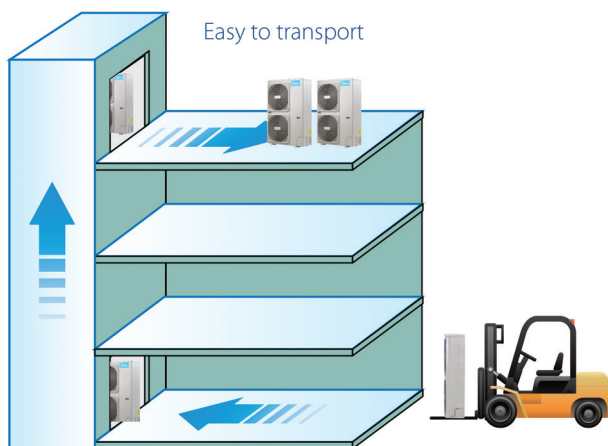


	PERMITTED VALUE(M)		7.2/9kW	12.3/14/ 15.5/17.5kW	20/22.4/ 26kW	40/45kW
Piping length	Total piping length (Actual)		100	100	120	250
	Longest piping (L)	Actual length	45	60	60	100
		Equivalent length	50	70	70	120
Level difference	Equivalent piping length (from the farthest IDU to the first indoor branch joint)		20	20	20	40
	Level difference between IDU-ODU	Outdoor unit up	20	20	20	20
		Outdoor unit down	30	30	30	30
	Level difference between IDU-IDU			8	8	8

1. Total pipe length is equal to all the liquid pipe or all the gas pipe length.
2. When the total equivalent pipe length of liquid side plus gas side is more than 90m, it needs to meet the specific conditions according to the installation part of the technical manual.

MINI VRF FULL DC INVERTER

EASY INSTALLATION AND SERVICE



EASY INSTALLATION

No special area is required for outdoor units. All outdoor units can be transported by elevator, which greatly simplifies installation and reduces time and labour.

The Mini VRF system's indoor and outdoor units are almost as easy to install as residential air conditioning systems, making them ideal for small offices and shops.

SPACE SAVING DESIGN

The Mini VRF units are slimmer and more compact, resulting in significant savings in installation space.

In some large residential and light commercial areas, such as villas, restaurants, usually it need more than one indoor unit, which in turn requires multiple outdoor units.

Midea's Mini VRF system solves this problem, and retains buildings' original aesthetics.



AUTO ADDRESSING

Outdoor unit can distribute addresses for indoor units automatically.

Wireless and wired controllers can query and modify each indoor unit's address.



MINI VRF FULL DC INVERTER



Mini VRF 8, 10.5kW



Mini VRF 12, 14, 16kW



Mini VRF 20, 22.4, 26kW, 40kW, 45kW

SINGLE PHASE

MODEL			V80W/DN1	V105W/DN1	V120W/DN1	V140W/DN1	V160W/DN1(B)
Power supply		V/Ph/Hz	220-240/1/50				
Recommended Fuse Size		A	25	32	32	40	40
Cooling	Capacity	kW	7.2(1.5~8.0)	9.0(2.0~10.0)	12.5	14	15.5
	ESEER		7.36	7.4	7.1	6.68	6.42
Heating	Capacity	kW	7.2(1.6~8.4)	9.0(2.1~10.5)	14.0	16.0	17
Connectable indoor unit	Total capacity		45~130% of outdoor unit capacity				
	Max. quantity		4	5	7	8	9
Compressor	Type		Rotary				
	Quantity		1	1	1	1	1
Fan motor	Type		DC Motor				
	Quantity		1	1	2	2	2
Refrigerant	Type		R410A				
	GWP		2088	2088	2088	2088	2088
	Factory charging	kg	2.95	2.95	2.8	3.2	3.8
	CO ₂ equivalence	kg	6.16	6.16	5.85	6.68	7.93
Pipe connections	Liquid pipe	mm(inch)	Φ9.53(3/8)	Φ9.53(3/8)	Φ9.53(3/8)	Φ9.53(3/8)	Φ9.53(3/8)
	Gas pipe	mm(inch)	Φ15.9(5/8)	Φ15.9(5/8)	Φ15.9(5/8)	Φ15.9(5/8)	Φ19.1(3/4)
Air flow rate		m ³ /h	5500	5500	6000	6000	6000
Sound pressure level		dB(A)	53	54	54	54	54
Net dimension (WxHxD)		mm	1075 × 966 × 396			900 × 1327 × 400	
Packing size (WxHxD)		mm	1120 × 1100 × 435			1030 × 1456 × 435	
Net weight		kg	75.5	75.5	95	99	100
Gross weight		kg	85.5	85.5	105	109	110
Operating temperature range		°C	Cooling: -15~43; Heating: -15~27				

MINI VRF FULL DC INVERTER

3 PHASE

MODEL			V120W/DRN1	V140W/DRN1	V160W/DRN1	V180W/DRN1
Power supply		V/Ph/Hz	380-415/3/50			
Recommended Fuse Size		A	25	25	25	25
Cooling	Capacity	kW	12.5	14	16	17.5
	ESEER		7.1	6.68	6.42	6.21
Heating	Capacity	kW	14	16	17.5	19
Connectable indoor unit	Total capacity		45~130% of outdoor unit capacity			
	Max. quantity		7	8	9	9
Compressor	Type		Rotary			
	Quantity		1	1	1	1
Fan motor	Type		DC Motor			
	Quantity		2	2	2	2
Refrigerant	Type		R410A			
	Factory charging	kg	2.8	3.2	3.8	4.5
	CO ₂ equivalence	kg	5.85	6.68	7.93	9.40
Pipe connections	Liquid pipe	mm(inch)	Φ9.53(3/8)	Φ9.53(3/8)	Φ9.53(3/8)	Φ9.53(3/8)
	Gas pipe	mm(inch)	Φ15.9(5/8)	Φ15.9(5/8)	Φ19.1(3/4)	Φ19.1(3/4)
Air flow rate		m ³ /h	6000	6000	6000	6800
Sound pressure level		dB(A)	57	57	57	59
Net dimension (WxHxD)		mm	900 x 1327 x 400			
Packing size (WxHxD)		mm	1030 x 1456 x 435			
Net weight		kg	95	99	100	107
Gross weight		kg	106	109	110	118
Operating temperature range		°C	Cooling: -15~43; Heating: -15~27			

MODEL			V200W/DRN1	V224W/DRN1	V260W/DRN1	V400W/DRN1	V450W/DRN1
Power supply		V/Ph/Hz	380-415/3/50				
Recommended Fuse Size		A	32	32	40	40	40
Cooling	Capacity	kW	20	22.4	26	40	45
	ESEER		6.19	6.21	6.42	6.26	6.2
Heating	Capacity	kW	22	24.5	28.5	45	50
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity				
	Max. quantity		10	11	12	14	15
Compressor	Type		DC Inverter				
	Quantity		1	1	1	2	2
Fan motor	Type		DC + AC Motor			DC Motor	
	Quantity		2	2	2	2	2
Refrigerant	Type		R410A				
	Factory charging	kg	4.8	6.2	6.2	9	12
	CO ₂ equivalence	kg	10.02	12.95	12.95	18.79	25.06
Pipe connections	Liquid pipe	mm(inch)	Φ9.53(3/8)	Φ9.53(3/8)	Φ9.53(3/8)	Φ12.7(1/2)	Φ12.7(1/2)
	Gas pipe	mm(inch)	Φ19.1(3/4)	Φ19.1(3/4)	Φ19.1(7/8)	Φ22.2(7/8)	Φ25.4 (1 1/8)
Air flow rate		m ³ /h	10999	10494	10494	16575	16575
Sound pressure level		dB(A)	59	59	60	62	62
Net dimension (WxHxD)		mm	1120x1558x528			1360x1650x540	1460x1650x540
Packing size (WxHxD)		mm	1270x1720x565			1450x1785x560	1550x1785x560
Net weight		kg	137	146.5	147	240	275
Gross weight		kg	153	162.5	163	260	290
Operating temperature range		°C	Cooling: -15~46; Heating: -15~24			Cooling: -5~48; Heating: -15~24	