

# VRF OUTDOOR 2026



## MINI VRF FULL DC INVERTER



### WIDE APPLICATION RANGE

The outdoor unit is available in capacity ranges from 7.2kW to 61.5kW. It is perfect for commercial and residential applications such as small offices, apartments and shops.

### WIDE RANGE OF INDOOR UNITS

Midea provides 11 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 55°C.

### LONG PIPING LENGTH

The Mini VRF provides a total piping length possibility of 560m, a maximum height difference between outdoor and indoor units of 50m. The height difference between indoor units can be up to 30m. These generous allowances facilitate an extensive array of system designs.

### 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

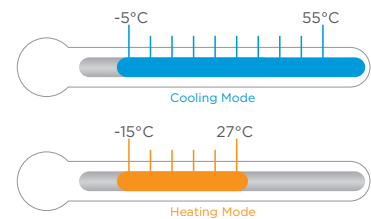
The Mini VRF units are slimmer and more compact, resulting in significant savings in installation space.

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

Midea's Mini VRF system solves this problem, and retains the aesthetics of the building.

#### AUTO ADDRESSING

Outdoor units can automatically assign addresses to indoor units. Remote and wired controllers can also be used to check or modify each indoor unit's address.



Wide operation range

It has been certified by UL that our VRF outdoor unit can withstand 27 years of simulated severe corrosion under a salt contaminated traffic environment.

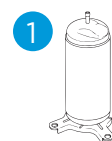
Outdoor Unit can resist 27 years of simulated severe corrosion under a salt contaminated traffic environment



\*UL anti-corrosion certificate is available for heavy anti-corrosion treatment units.

UL Anti-Corrosion Certificate\*

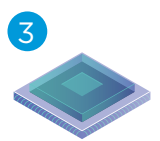
Three stages of oil control technology ensure all outdoor compressor oil is always kept at a safe level, eliminating any compressor oil shortage problems.



1 Compressor internal oil separation.



2 Centrifugal oil separator



3 Automatic oil return program

Precise Oil Control



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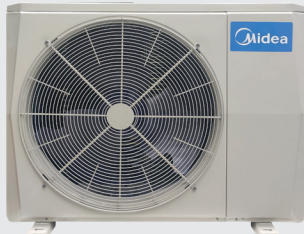
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# VRF OUTDOOR 2026



## MINI VRF FULL DC INVERTER (SINGLE PHASE)



8/10 kW



12/14/16 kW



18 kW

## ATOM R32 MINI VRF (SINGLE PHASE)



8/10 kW



12/14/16 kW

## MINI VRF FULL DC INVERTER (3 PHASE)



20/35 kW



40 kW



45/50/56.5/61.5 kW

## PIPE LENGTH

		R410A					
		MONOPHASE			3 PHASE		
PERMITTED VALUE(M)		80	100/120	140/160/180	120/140/160	200/224/260 /280/335	400/450/500 /560/615
Piping length	Total piping length	≤70	≤90	≤130	≤100	≤150	≤ 560
Piping length	Piping between furthest indoor unit and first indoor unit and outdoor unit	Actual length	≤35	≤45	≤60	≤60	≤ 100
Piping length		Equivalent length	≤40	≤50	≤70	≤70	<110
Level differences	Piping between furthest indoor unit and first indoor branch joint	≤20m	≤20	≤20	≤20	≤ 40	≤ 40/90
	Largest level difference between indoor unit and outdoor unit	Outdoor unit is above	≤10m	≤20	≤30	≤30	≤ 50
		Outdoor unit is below	≤10	≤20	≤20	≤20	≤ 40
	Largest level difference between indoor units	≤10	≤10	≤10	≤8	≤15	≤ 30

\*the specific conditions according to the installation part of the technical manual.  
\*See technical manual for full information

		R32		
		MONOPHASE		
PERMITTED VALUE(M)		80	100/120	140/160
Piping length	Total piping length	≤60	≤80	≤100
Piping length	Piping between furthest indoor unit and first indoor unit and outdoor unit	Actual length	≤35	≤35
Piping length		Equivalent length	≤40	≤40
Level differences	Piping between furthest indoor unit and first indoor branch joint	≤20m	≤20m	≤20m
	Largest level difference between indoor unit and outdoor unit	Outdoor unit is above	≤20m	≤20m
		Outdoor unit is below	≤10m	≤20
	Largest level difference between indoor units	≤10	≤10	≤20

# VRF OUTDOOR 2026



## MINI VRF FULL DC INVERTER (SINGLE PHASE)

MODEL		MDV-V80WDN1(D)	MDV-V100WDN1(D)	MDV-V120WDN1(D)	MDV-V140WDN1(D)	MDV-V160WDN1(D)	MDV-V180WDN1(D)	
HP		3	4	4.5	5	6	6.5	
Power supply	V-Ph-Hz	220-240V,1Ph,50Hz						
Recommended Fuse Size	A	25	32	40	40	40	40	
Cooling	Capacity	kW	7.2(1.5-8)	9(2-10)	12.3	14	15.5	17.5
Heating	Capacity	kW	7.2(1.6-9)	9(2.1-12)	14	16	17.5	19
Seasonal Efficiency	SEER*	W/W	6.5	6.2	6.65	6.6	6.6	6.5
	SCOP*	W/W	4.25	4.4	4.25	4.3	4.35	4.25
Connectable Range	Total capacity	45-130% of outdoor unit capacity						
	Connectable Indoors	4	6	7	8	9	9	
Compressor	Type	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	DC inverter	
	Quantity	1	1	1	1	1	1	
Fan motor	Type	DC Motor	DC Motor	DC Motor	DC Motor	DC Motor	DC Motor	
	Quantity	1	1	1	1	1	1	
Refrigerant	Type	R410A						
	GWP	2088						
	Factory charging	kg	1.7	2.6	3.2	3.1	3.6	4.6
Pipe connections	Liquid pipe	mm(inch)	Ø9.53(3/8)	Ø9.53(3/8)	Ø9.53(3/8)	Ø9.53(3/8)	Ø9.53(3/8)	Ø9.53(3/8)
	Gas pipe	mm(inch)	Ø15.9(5/8)	Ø15.9(5/8)	Ø15.9(5/8)	Ø15.9(5/8)	Ø19.1(3/4)	Ø19.1(3/4)
Air flow rate	m <sup>3</sup> /h	3750	4000	5000	5100	5000	5300	
Sound pressure level	dB(A)	54	54	56	56	56	57	
Net Dimensions (WxHxD)	mm	910x712x345	910x712x345	950x840x360	950x840x360	950x840x360	1040x865x410	
Packing size (WxHxD)	mm	1045x800x485	1045x800x485	1025x1020x510	1025x1020x510	1025x1020x510	1120x1060x560	
Net weight	kg	49	52.5	62.5	75	77.5	91	
Gross weight	kg	53	56.5	69.5	82	84.5	99.5	
Operating temperature range	°C	Cooling: -15-55, Heating: -15-27						

Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB, outdoor 35°C DB, 24°C WB.  
Nominal Conditions: Heating; indoor 20°C DB, outdoor 7°C DB, 6°C WB.

UK Conditions: Summer: indoor 21°C DB, 15°C WB, outdoor 27°C DB.  
Sound Pressure is measured 1.5m below the air-outlet at Nominal Conditions.

**DATA IS SUBJECT TO CHANGE, SCAN THE QR CODE FOR MOST RECENT PRODUCT INFORMATION**

# VRF OUTDOOR 2026



## ATOM SERIES R32 MINI VRF (SINGLE PHASE)

MODEL			MDV-V80WHN8(At)	MDV-V100WHN8(At)	MDV-V120WHN8(At)	MDV-V140WHN8(At)	MDV-V160WHN8(At)
HP			3	4	4.5	5	6
Power supply	V-Ph-Hz		220-240V,1Ph,50Hz				
Recommended Fuse Size	A		25	32	40	40	40
Cooling	Capacity	kW	7.2(1.5-8)	9(2-10)	12.3	14	15.5
Heating	Capacity	kW	7.2(1.6-9)	9(2.1-12)	14	16	17.5
Seasonal Efficiency	SEER*	W/W	5.7	5.7	7.50	6.9	6.6
	SCOP*	W/W	4.00	4.0	4.40	4.6	4.40
Connectable Range	Total capacity		50-130% of outdoor unit capacity				
	Connectable Indoors		4	6	7	8	9
Compressor	Type		DC inverter	DC inverter	DC inverter	DC inverter	DC inverter
	Quantity		1	1	1	1	1
Fan motor	Type		DC Motor	DC Motor	DC Motor	DC Motor	DC Motor
	Quantity		1	1	1	1	1
Refrigerant	Type		R32				
	GWP		675				
	Factory charging	kg	1.4	1.8	2.2	2.4	2.4
Pipe connections	Liquid pipe	mm(inch)	Ø9.53(3/8)	Ø9.53(3/8)	Ø9.53(3/8)	Ø9.53(3/8)	Ø9.53(3/8)
	Gas pipe	mm(inch)	Ø15.9(5/8)	Ø15.9(5/8)	Ø15.9(5/8)	Ø15.9(5/8)	Ø15.9(5/8)
Air flow rate	m³/h		3750	4000	5000	5100	5000
Sound pressure level	dB(A)		54	55	57	56	56
Net Dimensions (WxHxD)	mm		910x712x426	910x712x426	950x840x4	950x840x440	950x840x440
Packing size (WxHxD)	mm		1045x810x485	1045x810x485	1025x940x510	1025x940x510	1025x940x510
Net weight	kg		49	52.5	62.5	78	78
Gross weight	kg		53	56.5	73.0	88	88
Operating temperature range	°C		Cooling: -15-46, Heating: -15-27	Cooling: -15-55, Heating: -15-27			

Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB, outdoor 35°C DB, 24°C WB.  
Nominal Conditions: Heating; indoor 20°C DB, outdoor 7°C DB, 6°C WB.

UK Conditions: Summer: indoor 21°C DB, 15°C WB, outdoor 27°C DB.  
Sound Pressure is measured 1.5m below the air-outlet at Nominal Conditions.

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# VRF OUTDOOR 2026



## MINI VRF FULL DC INVERTER (3 PHASE)

MODEL			MVi-200WV2RN1(A)	MVi-224WV2RN1(A)	MVi-260WV2RN1(A)	MVi-280WV2RN1(A)
HP			7	8	9	10
Power supply		V-Ph-Hz	380-415V, 3Ph, 50Hz			
Recommended Fuse Size		A	25	25	25	25
Cooling	Capacity	kW	20	22.4	26	28
	Capacity	kW	22.5	25	28.5	31.5
Seasonal Efficiency	SEER*	W/W	7.11	6.83	6.55	6.35
	SCOP*	W/W	3.95	4.26	4.53	4.56
Connectable Range	Total capacity		50-130% of outdoor			
	Connectable Indoors		11	13	15	16
Compressor	Type		DC Inverter			
	Quantity		1	1	1	1
Fan motor	Type		DC Motor			
	Quantity		2	2	2	2
Refrigerant	Type		R410A			
	GWP		2088			
	Factory charging	kg	6.5	6.5	6.5	6.5
Pipe connections	Liquid pipe	mm(inch)	Ø9.53(3/8)	Ø9.53(3/8)	Ø9.53(3/8)	Ø9.53(3/8)
	Gas pipe	mm(inch)	Ø19.1(3/4)	Ø19.1(3/4)	Ø22.2(7/8)	Ø22.2(7/8)
Air flow rate		m <sup>3</sup> /h	9000	9000	10000	11000
Sound pressure level		dB(A)	58	58	59	60
Net Dimensions (WxHxD)		mm	1120×1558×528	1120×1558×528	1120×1558×528	1120×1558×528
Packing size (WxHxD)		mm	1270×1720×565	1270×1720×565	1270×1720×565	1270×1720×565
Net weight		kg	143	143	144	144
Gross weight		kg	159	159	160	160
Operating temperature range		°C	Cooling: -5-48; Heating: -20-24			

Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB, outdoor 35°C DB, 24°C WB.  
Nominal Conditions: Heating; indoor 20°C DB, outdoor 7°C DB, 6°C WB.

UK Conditions: Summer: indoor 21°C DB, 15°C WB, outdoor 27°C DB.  
Sound Pressure is measured 1.5m below the air-outlet at Nominal Conditions.

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# VRF OUTDOOR 2026



## MINI VRF FULL DC INVERTER (3 PHASE)

MODEL			MVi-335WV2RNI(A)	MVi-400WV2RNI(A)	MVi-450WV2RNI(A)	MVi-500WV2RNI(A)	MVi-560WV2RNI(A)	MVi-615WV2RNI(A)
HP			12	14	16	18	20	22
Power supply		V-Ph-Hz	380-415V, 3Ph, 50Hz					
Recommended Fuse Size		A	32	32	40	40	50	50
Cooling	Capacity	kW	33.5	40	45	50	56	61.5
Heating	Capacity	kW	37.5	45	50	56.5	63	69
Seasonal Efficiency	SEER*	W/W	6.42	6.23	6.15	6.08	5.95	5.8
	SCOP*	W/W	3.96	4	4.1	4.15	4.07	4
Connectable Range	Total capacity		50-130% of outdoor unit capacity					
	Connectable Indoors		19	23	26	29	33	36
Compressor	Type		DC inverter					
	Quantity		1	1	1	1	1	1
Fan motor	Type		DC Motor					
	Quantity		2	2	2	2	2	2
Refrigerant	Type		R410A					
	GWP		2088					
	Factory charging	kg	8	7.4	8	8	8.5	8.5
Pipe connections	Liquid pipe	mm(inch)	Ø12.7(1/2)	Ø12.7(1/2)	Ø15.9(5/8)	Ø15.9(5/8)	Ø15.9(5/8)	Ø15.9(5/8)
	Gas pipe	mm(inch)	Ø28.6(1 1/8)	Ø28.6 (1 1/8)	Ø28.6 (1 1/8)	Ø28.6 (1 1/8)	Ø28.6 (1 1/8)	Ø28.6 (1 1/8)
Air flow rate	m3/h		11300	12500	18500	20000	18500	19000
Sound pressure level	dB(A)		61	59	60	61	61	62
Net Dimensions (WxHxD)	mm		1120×1558×528	1130×1760×580	1250×1760×580	1250×1760×580	1250×1760×580	1250×1760×580
Packing size (WxHxD)	mm		1270×1720×565	1210×1916×597	1330×1916×597	1330×1916×597	1330×1916×597	1330×1916×597
Net weight	kg		157	187	214	214	234	234
Gross weight	kg		173	201	229	229	249	249
Operating temperature range	°C		Cooling: -5-48; Heating: -20-24		Cooling: -15-55; Heating: -30-30			

Nominal Conditions: Cooling; indoor 27°C DB, 19°C WB, outdoor 35°C DB, 24°C WB.  
Nominal Conditions: Heating; indoor 20°C DB, outdoor 7°C DB, 6°C WB.

UK Conditions: Summer: indoor 21°C DB, 15°C WB, outdoor 27°C DB.  
Sound Pressure is measured 1.5m below the air-outlet at Nominal Conditions.

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