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VRF 50Hz V4+K/V4+S/V4+R/V4+W/V4+I/Mini VRF



Commercial Air Conditioners 2018/2019



VRF 50Hz

V4+K/V4+S/V4+R/V4+W/V4+I/Mini VRF



Midea CAC After-service Application



iOS Version



Android Version

Commercial Air Conditioner Division

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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.

VRF SYSTEM

VRF V4 PlusKing Series



Heat pump/Cooling only
Max. 4 modules can be combined
8~72HP
DC inverter compressor + fixed compressors
Heat pump series: All DC fan motors
Cooling only series: DC fan motor + AC fan motor

VRF V4 PlusWater Cooled Series



Water cooled
Max. 3 modules can be combined
8~36HP
DC inverter compressor

VRF V4 PlusSuper Series



Heat pump
Max. 4 modules can be combined
8~72HP
All DC inverter compressors
All DC fan motors

VRF V4 PlusIndividual Series



Heat pump, cannot be combined
7~32HP
DC inverter compressor + fixed compressors
DC fan motor + AC fan motor

VRF V4 PlusHeat Recovery Series

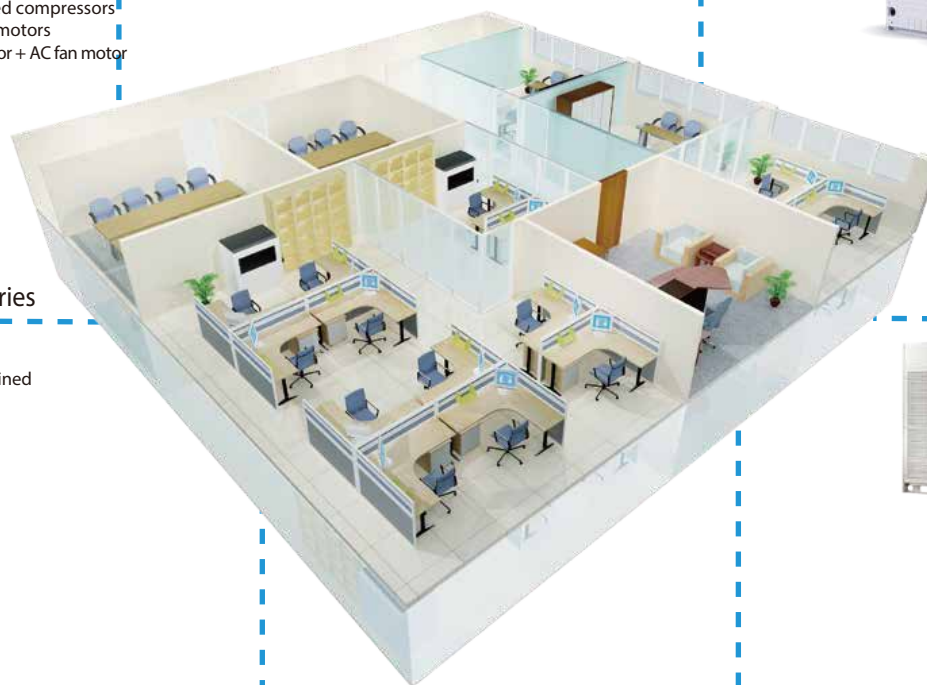


Heat recovery
Simultaneous cooling and heating operation in one system
Max. 4 modules can be combined
8~64HP
All DC inverter compressors
All DC fan motors

VRF V4 PlusMini Series



Heat pump, cannot be combined
3~6.5HP
DC inverter compressor
All DC fan motors



OUTDOOR UNIT LINEUP

Connectable VRF

HP		8	10	12	14	16	18	20	22	24	26	28	30	32		34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72
VRF V4 PLUS K SERIES																																			
VRF V4 PLUS S SERIES																																			
VRF V4 PLUS R SERIES																																			
VRF V4 PLUS W SERIES																																			

Single VRF

HP		3	4	4.5	5	6	6.5	7	8	10	12	14	16	20		22	24	26	28	30	32
VRF MINI SERIES																					
VRF V4 PLUS I SERIES																					

Single unit

Multi combination

INDOOR UNIT LINEUP

kW			1.5	1.8	2.2	2.8	3.6	4.5	5.6	7.1	8.0												9.0	10.0	11.2	12.5	14.0	16.0	20.0	25.0	28.0	40.0	45.0	56.0
Btu/h			5k	6k	7k	9k	12k	15k	19k	24k	27k												30k	34k	38k	42k	48k	55k	68k	85k	96k	136k	154k	191k
Cassette	One-way cassette																																	
	Two-way cassette																																	
	Four-way cassette																																	
	Compact four-way cassette																																	
Duct	Low static pressure																																	
	Medium static pressure																																	
	High static pressure																																	
	Fresh air processing unit																																	
Wall mounted																																		
Ceiling & floor																																		
Floor standing																																		
Console																																		

Notes:
 1.5kW model is only available for Mini VRF and V4+I (side discharge) Series.
 Fresh air processing unit is not available for V4+R and Mini VRF Series.

VRF V4 Plus K Series - Heat Pump/Cooling Only



HP		8	10	12	14	16	18
Model (Heat pump series) MDV-		252(8)W/DRN1(D)	280(10)W/DRN1(D)	335(12)W/DRN1(D)	400(14)W/DRN1(D)	450(16)W/DRN1(D)	500(18)W/DRN1(D)
Model (Cooling only series) MDVC-		252(8)W/DRN1(C)	280(10)W/DRN1(C)	335(12)W/DRN1(C)	400(14)W/DRN1(C)	450(16)W/DRN1(C)	500(18)W/DRN1(C)
Power supply	V/Ph/Hz	380-415/3/50					
Cooling	Capacity	25.2	28.0	33.5	40.0	45.0	50.0
	Power input	5.88	7.20	9.05	12.31	14.02	15.20
	EER	4.29	3.89	3.70	3.25	3.21	3.29
Heating*	Capacity	27.0	31.5	37.5	45.0	50.0	56.0
	Power input	6.15	7.61	8.99	11.19	12.79	14.25
	COP	4.39	4.14	4.17	4.02	3.91	3.93
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity					
Compressor	Max. quantity	13	16	20	23	26	29
	Type	DC inverter+Fixed					
Fan motor	Quantity	1	1	1+1	1+1	1+1	1+1
	Type	All DC motors for Heat pump series; DC+AC for Cooling only series					
	Quantity	1	1	1+1	1+1	1+1	1+1
	Static pressure	0-20 (default)					
	Pa	20-40 (customized)					
Refrigerant	Type	R410A					
	Factory charging	kg	9	9	11	13	16
Pipe connections	Liquid pipe	mm	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ19.1
	Gas pipe	mm	Φ25.4	Φ25.4	Φ31.8	Φ31.8	Φ31.8
	Oil balance pipe	mm	Φ6.35				
Air flow rate	m³/h	11500	11500	15100	15100	15100	15250
Sound pressure level	dB(A)	57	57	59	60	60	61
Net dimension (W×H×D)	mm	960×1615×765					
Packing size (W×H×D)	mm	1025×1790×830					
Net weight (Heat pump series)	kg	200	200	268	280	280	300
Gross weight (Heat pump series)	kg	215	215	288	300	300	320
Net weight (Cooling only series)	kg	198	198	268	280	280	300
Gross weight (Cooling only series)	kg	213	213	288	300	300	320
Operating temperature range	°C	Cooling: -5~48; Heating*: -20~24					



HP		20	22	24	26	28
Model (Heat pump series) MDV-		560(20)W/DRN1(D)	615(22)W/DRN1(D)	680(24)W/DRN1(D)	730(26)W/DRN1(D)	780(28)W/DRN1(D)
Model (Cooling only series) MDVC-		560(20)W/DRN1(C)	615(22)W/DRN1(C)	680(24)W/DRN1(C)	730(26)W/DRN1(C)	780(28)W/DRN1(C)
Power supply	V/Ph/Hz	380-415/3/50				
Cooling	Capacity	56.0	61.5	68.0	73	78
	Power input	14.40	16.25	19.51	21.22	22.40
	EER	3.89	3.78	3.49	3.44	3.48
Heating*	Capacity	63.0	69.0	76.5	81.5	87.5
	Power input	15.22	16.60	18.80	20.40	21.86
	COP	4.14	4.16	4.07	4.00	4.00
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity				
Compressor	Max. quantity	33	36	39	43	46
	Type	DC inverter+Fixed				
Fan motor	Quantity	2	2+1	2+1	2+1	2+1
	Type	All DC motors for Heat pump series; DC+AC for Cooling only series				
	Quantity	2	2+1	2+1	2+1	2+1
Refrigerant	Type	R410A				
	Factory charging	kg	9+11	9+13	9+13	9+16
Pipe connections	Liquid pipe	mm	Φ15.9	Φ15.9	Φ19.1	Φ19.1
	Gas pipe	mm	Φ28.6	Φ28.6	Φ31.8	Φ31.8
	Oil balance pipe	mm	Φ6.35			
Air flow rate	m³/h	11500×2	11500+15100	11500+15100	11500+15100	11500+15250
Sound pressure level	dB(A)	62	63	63	63	63
Net dimension (W×H×D)	mm	(960×1615×765)×2				
Packing size (W×H×D)	mm	(1025×1790×830)×2				
Net weight (Heat pump series)	kg	200×2	200+268	200+280	200+280	200+300
Gross weight (Heat pump series)	kg	215×2	215+288	215+300	215+300	215+320
Net weight (Cooling only series)	kg	198×2	198+268	198+280	198+280	198+300
Gross weight (Cooling only series)	kg	213×2	213+288	213+300	213+300	213+320
Operating temperature range	°C	Cooling: -5~48; Heating*: -20~24				

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.

Connection piping diameter of single-unit is the stop valve diameter of the unit.

Connection piping diameter of multi-unit is the main pipe connecting to the first indoor branch joint, is case of the total equivalent liquid length is less than 90m. If the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.

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

*heating is only available for heat pump series.

VRF V4 Plus K Series - Heat Pump/Cooling Only



HP		30	32	34	36	38
Model (Heat pump series) MDV-		850(30)W/DRN1(D)	900(32)W/DRN1(D)	950(34)W/DRN1(D)	1000(36)W/DRN1(D)	1060(38)W/DRN1(D)
Model (Cooling only series) MDVC-		850(30)W/DRN1(C)	900(32)W/DRN1(C)	950(34)W/DRN1(C)	1000(36)W/DRN1(C)	1060(38)W/DRN1(C)
Power supply	V/Ph/Hz	380-415/3/50				
Cooling	Capacity	85.0	90.0	95.0	100.0	106.0
	Power input	26.33	27.51	29.22	30.40	29.59
	EER	3.23	3.27	3.25	3.29	3.58
Heating*	Capacity	95.0	101.0	106.0	112.0	119.0
	Power input	23.98	25.44	27.04	28.50	29.47
	COP	3.96	3.97	3.92	3.93	4.04
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity				
Compressor	Max. quantity	50	53	56	59	63
	Type	DC inverter+Fixed				
Fan motor	Quantity	2+2				
	Type	All DC motors for Heat pump series; DC+AC for Cooling only series				
	Quantity	2+2				
Refrigerant	Type	R410A				
	Factory charging	kg	13+13	13+16	16x2	9x2+16
Pipe connections	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ31.8	Φ31.8	Φ38.1	Φ38.1
	Oil balance pipe	mm	Φ6.35			
Air flow rate	m³/h	15100×2	15100+15250	15100+15250	15250×2	11500×2+15250
Sound pressure level	dB(A)	64	64	64	64	64
Net dimension (W×H×D)	mm	(1250×1615×765)×2				
Packing size (W×H×D)	mm	(1305×1790×820)×2				
Net weight (Heat pump series)	kg	280×2	280+300	280+300	300×2	200×2+300
Gross weight (Heat pump series)	kg	300×2	300+320	300+320	320×2	215×2+320
Net weight (Cooling only series)	kg	280×2	280+300	280+300	300×2	198×2+300
Gross weight (Cooling only series)	kg	300×2	300+320	300+320	320×2	213×2+320
Operating temperature range	°C	Cooling: -5~48; Heating*: -20~24				



HP		40	42	44	46	48
Model (Heat pump series) MDV-		1130(40)W/DRN1(D)	1180(42)W/DRN1(D)	1230(44)W/DRN1(D)	1280(46)W/DRN1(D)	1350(48)W/DRN1(D)
Model (Cooling only series) MDVC-		1130(40)W/DRN1(C)	1180(42)W/DRN1(C)	1230(44)W/DRN1(C)	1280(46)W/DRN1(C)	1350(48)W/DRN1(C)
Power supply	V/Ph/Hz	380-415/3/50				
Cooling	Capacity	113.0	118.0	123.0	128.0	135.0
	Power input	33.53	35.24	36.42	37.59	41.53
	EER	3.37	3.35	3.38	3.40	3.25
Heating*	Capacity	126.5	131.5	137.5	143.5	151.0
	Power input	31.59	33.18	34.65	36.11	38.23
	COP	4.00	3.96	3.97	3.97	3.95
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity				
Compressor	Max. quantity	64				
	Type	DC inverter+Fixed				
Fan motor	Quantity	3+2				
	Type	All DC motors for Heat pump series; DC+AC for Cooling only series				
	Quantity	3+2				
Refrigerant	Type	R410A				
	Factory charging	kg	9+13x2	9+13x2	9+16x2	13x2+16
Pipe connections	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ38.1	Φ38.1	Φ38.1	Φ38.1
	Oil balance pipe	mm	Φ6.35			
Air flow rate	m³/h	11500+15100×2	11500+15100×2	11500+15100+15250	11500+15250×2	15100×2+15250
Sound pressure level	dB(A)	65				
Net dimension (W×H×D)	mm	(960×1615×765)+(1250×1615×765)×2				
Packing size (W×H×D)	mm	(1025×1790×830)+(1305×1790×820)×2				
Net weight (Heat pump series)	kg	200+280×2	200+280×2	200+280+300	200+300×2	280×2+300
Gross weight (Heat pump series)	kg	215+300×2	215+300×2	215+300+320	215+320×2	300×2+320
Net weight (Cooling only series)	kg	198+280×2	198+280×2	198+280+300	198+300×2	280×2+300
Gross weight (Cooling only series)	kg	213+300×2	213+300×2	213+300+320	213+320×2	300×2+320
Operating temperature range	°C	Cooling: -5~48; Heating*: -20~24				

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.

Connection piping diameter of single-unit is the stop valve diameter of the unit.

Connection piping diameter of multi-unit is the main pipe connecting to the first indoor branch joint, is case of the total equivalent liquid length is less than 90m. If the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.

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

*heating is only available for heat pump series.

VRF V4 Plus K Series - Heat Pump/Cooling Only



HP	50	52	54
Model (Heat pump series) MDV-	1400(50)W/DRN1(D)	1450(52)W/DRN1(D)	1500(54)W/DRN1(D)
Model (Cooling only series) MDVC-	1400(50)W/DRN1(C)	1450(52)W/DRN1(C)	1500(54)W/DRN1(C)
Combined type	14HP+18HPx2	16HP+18HPx2	18HPx3
Power supply	V/Ph/Hz	380-415/3/50	380-415/3/50
Cooling	Capacity	140.0	150.0
	Power input	42.70	45.59
	EER	3.28	3.29
Heating*	Capacity	157.0	168.0
	Power input	39.69	42.75
	COP	3.96	3.93
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity	
Compressor	Max. quantity	64	
	Type	DC inverter+Fixed	
	Quantity	3+3	
Fan motor	Type	All DC motors for Heat pump series; DC+AC for Cooling only series	
	Quantity	3+3	
Refrigerant	Type	R410A	
	Factory charging	13+16x2	
Pipe connections	Liquid pipe	mm	
	Gas pipe	mm	
	Oil balance pipe	mm	
Air flow rate	m ³ /h	15100+15250x2	15100+15250x2
Sound pressure level	dB(A)	66	
Net dimension (WxHxD)	mm	(1250x1615x765)x3	
Packing size (WxHxD)	mm	(1305x1790x820)x3	
Net weight (Heat pump series)	kg	280+300x2	300x3
Gross weight (Heat pump series)	kg	300+320x2	320x3
Net weight (Cooling only series)	kg	280+300x2	300x3
Gross weight (Cooling only series)	kg	300+320x2	320x3
Operating temperature range	°C	Cooling: -5~48; Heating*: -20~24	



HP	56	58	60
Model (Heat pump series) MDV-	1560(56)W/DRN1(D)	1630(58)W/DRN1(D)	1680(60)W/DRN1(D)
Model (Cooling only series) MDVC-	1560(56)W/DRN1(C)	1630(58)W/DRN1(C)	1680(60)W/DRN1(C)
Combined type	10HP+14HP+18HPx2	10HP+14HP+16HP+18HP	10HP+14HP+18HPx2
Power supply	V/Ph/Hz	380-415/3/50	380-415/3/50
Cooling	Capacity	156.0	168.0
	Power input	44.79	49.90
	EER	3.48	3.37
Heating*	Capacity	175.0	188.5
	Power input	43.72	47.30
	COP	4.00	3.98
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity	
Compressor	Max. quantity	64	
	Type	DC inverter+Fixed	
	Quantity	4+2	
Fan motor	Type	All DC motors for Heat pump series; DC+AC for Cooling only series	
	Quantity	4+2	
Refrigerant	Type	R410A	
	Factory charging	9x2+16x2	
Pipe connections	Liquid pipe	mm	
	Gas pipe	mm	
	Oil balance pipe	mm	
Air flow rate	m ³ /h	11500x2+15250x2	11500+15100x2+15250
Sound pressure level	dB(A)	66	
Net dimension (WxHxD)	mm	(960x1615x765)x2+(1250x1615x765)x2	
Packing size (WxHxD)	mm	(1025x1790x830)x2+(1305x1790x820)x2	
Net weight (Heat pump series)	kg	200x2+300x2	200+280+300x2
Gross weight (Heat pump series)	kg	215x2+320x2	215+300+320x2
Net weight (Cooling only series)	kg	198x2+300x2	198+280+300x2
Gross weight (Cooling only series)	kg	213x2+320x2	213+300+320x2
Operating temperature range	°C	Cooling: -5~48; Heating*: -20~24	

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 2°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.

Connection piping diameter of single-unit is the stop valve diameter of the unit.

Connection piping diameter of multi-unit is the main pipe connecting to the first indoor branch joint, is case of the total equivalent liquid length is less than 90m. If the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.

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

*heating is only available for heat pump series.

VRF V4 Plus K Series - Heat Pump/Cooling Only



HP	62	64	66
Model (Heat pump series) MDV-	1730(62)W/DRN1(D)	1780(64)W/DRN1(D)	1850(66)W/DRN1(D)
Model (Cooling only series) MDVC-	1730(62)W/DRN1(C)	1780(64)W/DRN1(C)	1850(66)W/DRN1(C)
Combined type	10HP+16HP+18HPx2	10HP+18HPx3	14HP+16HP+18HPx2
Power supply	V/Ph/Hz	380-415/3/50	380-415/3/50
Cooling	Capacity	173	185
	Power input	51.613	52.792
	EER	3.35	3.26
Heating*	Capacity	193.5	207
	Power input	48.896	50.359
	COP	3.96	3.94
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity	
Compressor	Max. quantity	64	
	Type	DC inverter+Fixed	
	Quantity	4+3	
Fan motor	Type	All DC motors for Heat pump series; DC+AC for Cooling only series	
	Quantity	4+3	
Refrigerant	Type	R410A	
	Factory charging	9+13+16x2	
Pipe connections	Liquid pipe	mm	
	Gas pipe	mm	
	Oil balance pipe	mm	
Air flow rate	m ³ /h	11500+15100+15250x2	11500+15250x3
Sound pressure level	dB(A)	67	
Net dimension (WxHxD)	mm	(960x1615x765)+(1250x1615x765)x3	
Packing size (WxHxD)	mm	(1025x1790x830)+(1305x1790x820)x3	
Net weight (Heat pump series)	kg	200+280+300x2	280x2+300x2
Gross weight (Heat pump series)	kg	215+300+320x2	300x2+320x2
Net weight (Cooling only series)	kg	198+280+300x2	280x2+300x2
Gross weight (Cooling only series)	kg	213+300+320x2	300x2+320x2
Operating temperature range	°C	Cooling: -5~48; Heating*: -20~24	



HP	68	70	72
Model (Heat pump series) MDV-	1900(68)W/DRN1(D)	1950(70)W/DRN1(D)	2000(72)W/DRN1(D)
Model (Cooling only series) MDVC-	1900(68)W/DRN1(C)	1950(70)W/DRN1(C)	2000(72)W/DRN1(C)
Combined type	14HP+18HPx3	16HP+18HPx3	18HPx4
Power supply	V/Ph/Hz	380-415/3/50	380-415/3/50
Cooling	Capacity	190	200
	Power input	57.902	59.613
	EER	3.28	3.27
Heating*	Capacity	213	224
	Power input	53.944	55.537
	COP	3.95	3.93
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity	
Compressor	Max. quantity	64	
	Type	DC inverter+Fixed	
	Quantity	4+4	
Fan motor	Type	All DC motors for Heat pump series; DC+AC for Cooling only series	
	Quantity	4+4	
Refrigerant	Type	R410A	
	Factory charging	13+16x3	
Pipe connections	Liquid pipe	mm	
	Gas pipe	mm	
	Oil balance pipe	mm	
Air flow rate	m ³ /h	15100+15250x3	15100+15250x3
Sound pressure level	dB(A)	68	
Net dimension (WxHxD)	mm	(1250x1615x765)x4	
Packing size (WxHxD)	mm	(1305x1790x820)x4	
Net weight (Heat pump series)	kg	280+300x3	320x4
Gross weight (Heat pump series)	kg	300+320x3	320x4
Net weight (Cooling only series)	kg	280+300x3	320x4
Gross weight (Cooling only series)	kg	300+320x3	320x4
Operating temperature range	°C	Cooling: -5~48; Heating*: -20~24	

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 2°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.

Connection piping diameter of single-unit is the stop valve diameter of the unit.

Connection piping diameter of multi-unit is the main pipe connecting to the first indoor branch joint, is case of the total equivalent liquid length is less than 90m. If the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.

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

*heating is only available for heat pump series.

VRF V4 Plus S Series - Heat Pump



HP			8	10	12	14	16	18
Model MDV-			252(8)W/D2RN1(B)	280(10)W/D2RN1(B)	335(12)W/D2RN1(B)	400(14)W/D2RN1(B)	450(16)W/D2RN1(B)	500(18)W/D2RN1(B)
Power supply	V/Ph/Hz		380-415/3/50					
Cooling	Capacity	kW	25.2	28.0	33.5	40.0	45.0	50.0
	Power input	kW	5.88	7.05	8.79	11.30	13.25	14.79
	EER		4.29	3.97	3.81	3.54	3.40	3.38
Heating	Capacity	kW	27.0	31.5	37.5	45.0	50.0	56.0
	Power input	kW	6.15	7.55	8.99	11.19	12.79	14.40
	COP		4.39	4.17	4.17	4.02	3.91	3.89
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity					
	Max. quantity		13	16	20	23	26	29
Compressor	Type		DC inverter					
	Quantity		1	1	2	2	2	2
	Type		DC motor					
Fan motor	Quantity		1	1	2	2	2	2
	Static pressure		0-20 (default)					
	Pa	20-40 (customized)		20-60 (customized)		20-40 (customized)		
Refrigerant	Type		R410A					
	Factory charging		10	10	12	15	15	16
Pipe connections	Liquid pipe	mm	Φ12.7	Φ12.7	Φ15.9	Φ15.9	Φ15.9	Φ19.1
	Gas pipe	mm	Φ25.4	Φ25.4	Φ31.8	Φ31.8	Φ31.8	Φ31.8
	Oil balance pipe	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35	Φ6.35
Air flow rate	m³/h		11242	11242	13000	15620	15620	15620
Sound pressure level	dB(A)		57	57	59	61	62	62
Net dimension (W×H×D)	mm		960×1615×765		1250×1615×765			
Packing size (W×H×D)	mm		1025×1790×830		1305×1790×820			
Net weight	kg		212	212	288	288	288	310
Gross weight	kg		227	227	308	308	308	330
Operating temperature range			Cooling: -5-48; Heating: -20-24					



HP	Model MDV-	20	22	24	26	28
Model MDV-		560(20)W/D2RN1(B)	615(22)W/D2RN1(B)	680(24)W/D2RN1(B)	730(26)W/D2RN1(B)	780(28)W/D2RN1(B)
Power supply	V/Ph/Hz	380-415/3/50				
Cooling	Capacity	kW	56.0	61.5	68.0	73.0
	Power input	kW	14.11	15.85	18.35	20.29
	EER		3.97	3.88	3.71	3.60
Heating	Capacity	kW	63.0	69.0	76.5	81.5
	Power input	kW	15.11	16.55	18.75	20.34
	COP		4.17	4.17	4.08	4.01
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity				
Compressor	Max. quantity	33	36	39	43	46
	Type	DC inverter				
Fan motor	Quantity	2	3	3	3	3
	Type	DC motor				
	Quantity	2	3	3	3	3
Refrigerant	Type	R410A				
	Factory charging	kg	10×2	10×12	10×15	10×16
Pipe connections	Liquid pipe	mm	Φ15.9	Φ15.9	Φ15.9	Φ19.1
	Gas pipe	mm	Φ28.6	Φ28.6	Φ28.6	Φ31.8
	Oil balance pipe	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35
Air flow rate	m³/h	11242×2	11242+13000	11242+15620	11242+15620	11242+15620
Sound pressure level	dB(A)	62	63	63	63	63
Net dimension (W×H×D)	mm	(960×1615×765)×2		(960×1615×765)+(1250×1615×765)		(1250×1615×765)×3
Packing size (W×H×D)	mm	(1025×1790×830)×2		(1025×1790×830)+(1305×1790×820)		(1305×1790×820)×3
Net weight	kg	212×2	212+288	212+288	212+288	212+310
Gross weight	kg	227×2	227+308	227+308	227+308	227+330
Operating temperature range	°C	Cooling: -5~48; Heating: -20~24				

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.

Connection piping diameter of single-unit is the stop valve diameter of the unit.

Connection piping diameter of multi-unit is the main pipe connecting to the first indoor branch joint, is case of the total equivalent liquid length is less than 90m. If the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.

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 S Series - Heat Pump



HP	Model MDV-	30	32	34	36	38
Model MDV-		850(30)W/D2RN1(B)	900(32)W/D2RN1(B)	950(34)W/D2RN1(B)	1000(36)W/D2RN1(B)	1060(38)W/D2RN1(B)
Power supply	V/Ph/Hz	380-415/3/50				
Cooling	Capacity	kW	85.0	90.0	95.0	100.0
	Power input	kW	24.53	26.09	28.03	29.59
	EER		3.46	3.45	3.39	3.38
Heating	Capacity	kW	95.0	101.0	106.0	112.0
	Power input	kW	23.98	25.59	27.18	28.79
	COP		3.96	3.95	3.90	3.89
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity				
Compressor	Max. quantity	50	53	56	59	63
	Type	DC inverter				
Fan motor	Quantity	4	4	4	4	4
	Type	DC motor				
	Quantity	4	4	4	4	4
Refrigerant	Type	R410A				
	Factory charging	kg	15+15	15+16	15+16	16×2
Pipe connections	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ31.8	Φ31.8	Φ31.8	Φ31.8
	Oil balance pipe	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35
Air flow rate	m³/h	15620×2	15620×2	15620×2	15620×2	11242×2+15620
Sound pressure level	dB(A)	64	64	64	64	64
Net dimension (W×H×D)	mm	(1250×1615×765)×2		(1250×1615×765)×2		(960×1615×765)×2+(1250×1615×765)
Packing size (W×H×D)	mm	(1305×1790×820)×2		(1305×1790×820)×2		(1025×1790×830)×2+(1305×1790×820)
Net weight	kg	288×2	288+310	288+310	310×2	212×2+310
Gross weight	kg	308×2	308+330	308+330	330×2	227×2+330
Operating temperature range	°C	Cooling: -5~48; Heating: -20~24				



HP	Model MDV-	40	42	44	46	48
Model MDV-		1130(40)W/D2RN1(B)	1180(42)W/D2RN1(B)	1230(44)W/D2RN1(B)	1280(46)W/D2RN1(B)	1350(48)W/D2RN1(B)
Power supply	V/Ph/Hz	380-415/3/50				
Cooling	Capacity	kW	113.0	118.0	123.0	128.0
	Power input	kW	31.59	33.52	35.08	36.64
	EER		3.58	3.52	3.51	3.49
Heating	Capacity	kW	126.5	131.5	137.5	143.5
	Power input	kW	31.54	33.13	34.74	36.35
	COP		4.01	3.97	3.96	3.95
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity				
Compressor	Max. quantity	64	64	64	64	64
	Type	DC inverter				
Fan motor	Quantity	5	5	5	5	6
	Type	DC motor				
	Quantity	5	5	5	5	6
Refrigerant	Type	R410A				
	Factory charging	kg	10+15×2	10+15×2	10+15+16	10+16×2
Pipe connections	Liquid pipe	mm	Φ19.1	Φ19.1	Φ19.1	Φ19.1
	Gas pipe	mm	Φ31.8	Φ31.8	Φ31.8	Φ31.8
	Oil balance pipe	mm	Φ6.35	Φ6.35	Φ6.35	Φ6.35
Air flow rate	m³/h	11242+15620×2				
Sound pressure level	dB(A)	65				
Net dimension (W×H×D)	mm	(960×1615×765)×2		(960×1615×765)+(1250×1615×765)×2		(1250×1615×765)×3
Packing size (W×H×D)	mm	(1025×1790×830)×2		(1025×1790×830)+(1305×1790×820)×2		(1305×1790×820)×3
Net weight	kg	212+288×2	212+288×2	212+288+310	212+310×2	288×2+310
Gross weight	kg	227+308×2	227+308×2	227+308+330	227+330×2	308×2+330
Operating temperature range	°C	Cooling: -5~48; Heating: -20~24				

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.

Connection piping diameter of single-unit is the stop valve diameter of the unit.

Connection piping diameter of multi-unit is the main pipe connecting to the first indoor branch joint, is case of the total equivalent liquid length is less than 90m. If the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.

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 S Series - Heat Pump



HP	50		52		54	
Model MDV-	1400(50)W/D2RN1(B)		1450(52)W/D2RN1(B)		1500(54)W/D2RN1(B)	
Combined type	14HP+18HP×2		16HP+18HP×2		18HP×3	
Power supply	V/Ph/Hz		380-415/3/50		18HP×3	
Cooling	Capacity	kW	140.0	145.0	150.0	
	Power input	kW	40.89	42.82	44.38	
	EER	3.42	3.39	3.38		
Heating	Capacity	kW	157.0	162.0	168.0	
	Power input	kW	39.99	41.58	43.19	
	COP	3.93	3.90	3.89		
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity			
Compressor	Max. quantity		64			
	Type		DC inverter			
Fan motor	Quantity		6			
	Type		DC motor			
Refrigerant	Quantity		6			
	Type		R410A			
Pipe connections	Factory charging	kg	15+16×2	15+16×2	16×3	
	Liquid pipe	mm	Ø22.2	Ø22.2	Ø25.4	
	Gas pipe	mm	Ø41.2	Ø41.2	Ø44.5	
	Oil balance pipe	mm	Ø6.35	Ø6.35	Ø6.35	
Air flow rate	m³/h		15620×3			
Sound pressure level	dB(A)		66			
Net dimension (W×H×D)	mm		(1250×1615×765)×3			
Packing size (W×H×D)	mm		(1305×1790×820)×3			
Net weight	kg		288+310×2	288+310×2	310×3	
Gross weight	kg		308+330×2	308+330×2	330×3	
Operating temperature range	°C		Cooling: -5~48; Heating: -20~24			



HP			56	58	60
Model MDV-			1560(56)W/D2RN1(B)	1630(58)W/D2RN1(B)	1680(60)W/D2RN1(B)
Combined type			10HP×2+18HP×2	10HP+14HP+16HP+18HP	10HP+14HP+18HP×2
Power supply	V/Ph/Hz		380-415/3/50		
Cooling	Capacity	kW	156.0	163.0	168.0
	Power input	kW	43.69	46.38	47.94
	EER		3.57	3.51	3.50
Heating	Capacity	kW	175.0	182.5	188.5
	Power input	kW	43.90	45.93	47.54
	COP		3.99	3.97	3.97
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity		
Compressor	Max. quantity		64		
	Type		DC inverter		
Fan motor	Quantity		6	7	7
	Type		DC motor		
Refrigerant	Quantity		6	7	7
	Type		R410A		
Pipe connections	Factory charging	kg	10x2+16x2	10+15x2+16	10+15+16x2
	Liquid pipe	mm		Φ22.2	
	Gas pipe	mm		Φ41.2	
	Oil balance pipe	mm		Φ6.35	
Air flow rate	m³/h		11242x2+15620x2	11242+15620x3	11242+15620x3
Sound pressure level	dB(A)		66	67	67
Net dimension (W×H×D)	mm		(960×1615×765)×2+(1250×1615×765)×2	(960×1615×765)+(1250×1615×765)×3	
Packing size (W×H×D)	mm		(1025×1790×830)×2+(1305×1790×820)×2	(1025×1790×830)+(1305×1790×820)×3	
Net weight	kg		212x2+310x2	212+288x2+310	212+288+310x2
Gross weight	kg		227x2+330x2	227+308x2+330	227+308+330x2
Operating temperature range	°C		Cooling: -5~48; Heating: -20~24		

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 20°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.

Connection piping diameter of single-unit is the stop valve diameter of the unit.

Connection piping diameter of multi-unit is the main pipe connecting to the first indoor branch joint, is case of the total equivalent liquid length is less than 90m. If the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.

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 S Series - Heat Pump



HP	62		64		66	
Model MDV-	1730(62)W/D2RN1(B)		1780(64)W/D2RN1(B)		1850(66)W/D2RN1(B)	
Combined type	10HP+16HP+18HP×2		10HP+18HP×3		14HP+16HP+18HP×2	
Power supply	V/Ph/Hz		380-415/3/50			
Cooling	Capacity	kW	173.0	178.0	185.0	
	Power input	kW	49.87	51.43	54.12	
	EER		3.47	3.46	3.42	
Heating	Capacity	kW	193.5	199.5	207.0	
	Power input	kW	49.13	50.74	52.77	
	COP		3.94	3.93	3.92	
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity			
Compressor	Max. quantity		64			
	Type		DC inverter			
Fan motor	Quantity		7	7	8	
	Type		DC motor			
Refrigerant	Quantity		7	7	8	
	Type		R410A			
Pipe connections	Factory charging	kg	10+15+16×2	10+16×3	15×2+16×2	
	Liquid pipe	mm	Φ22.2	Φ22.2	Φ25.4	
	Gas pipe	mm	Φ41.2	Φ41.2	Φ44.5	
	Oil balance pipe	mm	Φ6.35	Φ6.35	Φ6.35	
Air flow rate	m³/h		11242+15620×3	11242+15620×3	15620×4	
Sound pressure level	dB(A)		67	67	68	
Net dimension (W×H×D)	mm		(960×1615×765)+(1250×1615×765)×3		(1250×1615×765)×4	
Packing size (W×H×D)	mm		(1025×1790×830)+(1305×1790×820)×3		(1305×1790×820)×4	
Net weight	kg		212+288+310×2	212+310×3	288×2+310×2	
Gross weight	kg		227+308+330×2	227+330×3	308×2+330×2	
Operating temperature range	°C		Cooling: -5-48; Heating: -20-24			



HP	68		70		72	
Model MDV-	1900(68)W/D2RN1(B)		1950(70)W/D2RN1(B)		2000(72)W/D2RN1(B)	
Combined type	14HP+18HP×3		16HP+18HP×3		18HP×4	
Power supply	V/Ph/Hz		380-415/3/50			
Cooling	Capacity	kW	190.0	195.0	200.0	
	Power input	kW	55.68	57.61	59.17	
	EER	3.41	3.38	3.38		
Heating	Capacity	kW	213.0	218.0	224.0	
	Power input	kW	54.38	55.98	57.58	
	COP	3.92	3.89	3.89		
Connectable indoor unit	Total capacity		50~130% of outdoor unit capacity			
Compressor	Max. quantity		64			
	Type		DC inverter			
Fan motor	Quantity		8			
	Type		DC motor			
Refrigerant	Quantity		8			
	Type		R410A			
Pipe connections	Factory charging	kg	15+16×3	15+16×3	16×4	
	Liquid pipe	mm	Φ25.4			
	Gas pipe	mm	Φ44.5			
	Oil balance pipe	mm	Φ6.35			
Air flow rate	m³/h		15620×4			
Sound pressure level	dB(A)		68			
Net dimension (W×H×D)	mm		(1250×1615×765)×4			
Packing size (W×H×D)	mm		(1305×1790×820)×4			
Net weight	kg		288+310×3	310×4		
Gross weight	kg		308+330×3	330×4		
Operating temperature range	℃		Cooling: -5~48; Heating: -20~24			

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 20°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.

Connection piping diameter of single-unit is the stop valve diameter of the unit.

Connection piping diameter of multi-unit is the main pipe connecting to the first indoor branch joint, is case of the total equivalent liquid length is less than 90m. If the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.

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 R Series - Heat Recovery



HP		8	10	12	14	16
Model MDV-		252(8)W/D2RN1T(C)	280(10)W/D2RN1T(C)	335(12)W/D2RN1T(C)	400(14)W/D2RN1T(C)	450(16)W/D2RN1T(C)
Power supply	V/Ph/Hz	380-415/3/50				
Cooling	Capacity	25.2	28	33.5	40	45
	Power input	5.73	6.67	8.07	11.3	13.24
	EER	4.4	4.2	4.15	3.54	3.4
Heating	Capacity	27	31.5	37.5	45	50
	Power input	6	7.33	8.72	11.19	12.79
	COP	4.5	4.3	4.3	4.02	3.91
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity				
Compressor	Max. quantity	13	16	20	23	26
	Type	DC inverter				
Fan motor	Quantity	1	1	1	2	2
	Type	DC motor				
	Quantity	2	2	2	2	2
	Static pressure	0-20 (default)				
	Pa	20-40 (customized)				
Refrigerant	Type	R410A				
	Factory charging	10	10	10	13	13
Pipe connections	Liquid pipe	mm	mm	mm	mm	mm
	Low pressure gas pipe	mm	mm	mm	mm	mm
	High pressure gas pipe	mm	mm	mm	mm	mm
	High pressure gas balance pipe	mm	mm	mm	mm	mm
	Oil balance pipe	mm	mm	mm	mm	mm
Air flow rate	m ³ /h	12000	12000	13000	15000	15000
Sound pressure level	dB(A)	57	57	58	60	60
Net dimension (W×H×D)	mm	1250×1615×765				
Packing size (W×H×D)	mm	1305×1790×820				
Net weight	kg	255	255	255	303	303
Gross weight	kg	273	273	273	322	322
Operating temperature range	°C	Cooling: -5~48; Heating: -20~24; Simultaneous Cooling and Heating: -5~24				



HP		18	20	22	24
Model MDV-		532(18)W/D2RN1T(C)	560(20)W/D2RN1T(C)	615(22)W/D2RN1T(C)	680(24)W/D2RN1T(C)
Power supply	V/Ph/Hz	380-415/3/50			
Cooling	Capacity	53.2	56	61.5	68
	Power input	12.4	13.34	14.74	17.97
	EER	4.29	4.2	4.17	3.78
Heating	Capacity	58.5	63	69	76.5
	Power input	13.33	14.66	16.05	18.52
	COP	4.39	4.3	4.3	4.13
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity			
Compressor	Max. quantity	29	33	36	39
	Type	DC inverter			
Fan motor	Quantity	2	2	2	3
	Type	DC motor			
	Quantity	4	4	4	4
Refrigerant	Type	R410A			
	Factory charging	10×2	10×2	10×2	10×13
Pipe connections	Liquid pipe	mm	mm	mm	mm
	Low pressure gas pipe	mm	mm	mm	mm
	High pressure gas pipe	mm	mm	mm	mm
	High pressure gas balance pipe	mm	mm	mm	mm
	Oil balance pipe	mm	mm	mm	mm
Air flow rate	m ³ /h	24000	24000	25000	27000
Sound pressure level	dB(A)	61	61	62	63
Net dimension (W×H×D)	mm	(1250×1615×765)×2			
Packing size (W×H×D)	mm	(1305×1790×820)×2			
Net weight	kg	255×2	255×2	255×2	255+303
Gross weight	kg	273×2	273×2	273×2	273+322
Operating temperature range	°C	Cooling: -5~48; Heating: -20~24; Simultaneous Cooling and Heating: -5~24			

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.

Connection piping diameter of single-unit is the stop valve diameter of the unit.

Connection piping diameter of multi-unit is the main pipe connecting to the first indoor branch joint, is case of the total equivalent liquid length is less than 90m. If the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.

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 R Series - Heat Recovery



HP		26	28	30	32
Model MDV-		730(26)W/D2RN1T(C)	800(28)W/D2RN1T(C)	850(30)W/D2RN1T(C)	900(32)W/D2RN1T(C)
Power supply	V/Ph/Hz	380-415/3/50			
Combined type		10HP+16HP	14HP×2	14HP+16HP	16HP×2
Cooling	Capacity	73	80	85	90
	Power input	19.9	22.6	24.54	26.48
	EER	3.67	3.54	3.46	3.4
Heating	Capacity	81.5	90	95	100
	Power input	20.1	22.4	23.98	25.58
	COP	4.05	4.02	3.96	3.91
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity			
Compressor	Max. quantity	43	46	50	53
	Type	DC inverter			
Fan motor	Quantity	3	4	4	4
	Type	DC motor			
	Quantity	4	4	4	4
Refrigerant	Type	R410A			
	Factory charging	10+13	13×2	13×2	13×2
Pipe connections	Liquid pipe	mm	mm	mm	mm
	Low pressure gas pipe	mm	mm	mm	mm
	High pressure gas pipe	mm	mm	mm	mm
	High pressure gas balance pipe	mm	mm	mm	mm
	Oil balance pipe	mm	mm	mm	mm
Air flow rate	m ³ /h	27000	30000	30000	30000
Sound pressure level	dB(A)	63	64	64	64
Net dimension (W×H×D)	mm	(1250×1615×765)×2			
Packing size (W×H×D)	mm	(1305×1790×820)×2			
Net weight	kg	255+303	303×2	303×2	303×2
Gross weight	kg	273+322	322×2	322×2	322×2
Operating temperature range	°C	Cooling: -5~48; Heating: -20~24; Simultaneous Cooling and Heating: -5~24			



HP		34	36	38	40
Model MDV-		960(34)W/D2RN1T(C)	1010(36)W/D2RN1T(C)	1065(38)W/D2RN1T(C)	1130(40)W/D2RN1T(C)
Power supply	V/Ph/Hz	380-415/3/50			
Combined type		10HP×2+14HP	10HP×2+16HP	10HP+12HP+16HP	10HP+14HP+16HP
Cooling	Capacity	96	101	106.5	113
	Power input	24.64	26.58	27.98	31.21
	EER	3.9	3.8	3.81	3.62
Heating	Capacity	108	113	119	126.5
	Power input	25.85	27.45	28.84	31.31
	COP	4.18	4.12	4.13	4.04
Connectable indoor unit	Total capacity	50~130% of outdoor unit capacity			
Compressor	Max. quantity	56	59	63	64
	Type	DC inverter			
Fan motor	Quantity	4	4	4	5
	Type	DC motor			
	Quantity	6	6	6	6
Refrigerant	Type	R410A			
	Factory charging	10×2+13	10×2+13	10×2+13	10+13×2
Pipe connections	Liquid pipe	mm	mm	mm	mm
	Low pressure gas pipe	mm	mm	mm	mm
	High pressure gas pipe	mm	mm	mm	mm
	High pressure gas balance pipe	mm	mm	mm	mm
	Oil balance pipe	mm	mm	mm	mm
Air flow rate	m ³ /h	39000	39000	40000	42000
Sound pressure level	dB(A)	65	65	65	66
Net dimension (W×H×D)	mm	(1250×1615×765)×3			
Packing size (W×H×D)	mm	(1305×1790×820)×3			
Net weight	kg	255×2+303	255×2+303	255×2+303	255+303×2
Gross weight	kg	273×2+322	273×2+322	273×2+322	273+322×2
Operating temperature range	°C	Cooling: -5~48; Heating: -20~24; Simultaneous Cooling and Heating: -5~24			

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.

Connection piping diameter of single-unit is the stop valve diameter of the unit.

Connection piping diameter of multi-unit is the main pipe connecting to the first indoor branch joint, is case of the total equivalent liquid length is less than 90m. If the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.

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 R Series - Heat Recovery



HP	42	44	46	48
Model MDV-	1200(42)W/D2RN1T(C)	1250(44)W/D2RN1T(C)	1300(46)W/D2RN1T(C)	1350(48)W/D2RN1T(C)
Combined type	14HPx3	14HPx2+16HP	14HP+16HPx2	16HPx3
Power supply	V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Cooling	Capacity	120	125	130
	Power input	33.9	35.84	37.78
	EER	3.54	3.49	3.44
Heating	Capacity	135	140	145
	Power input	33.57	35.17	36.77
	COP	4.02	3.98	3.94
Connectable indoor unit	50~130% of outdoor unit capacity			
Compressor	Max. quantity	64		
	Type	DC inverter		
	Quantity	6		
Fan motor	Type	DC motor		
	Quantity	6		
Refrigerant	Type	R410A		
	Factory charging	13x3		
Pipe connections	Liquid pipe	mm		
	Low pressure gas pipe	mm		
	High pressure gas pipe	mm		
	High pressure gas balance pipe	mm		
	Oil balance pipe	mm		
Air flow rate	m³/h	45000		
Sound pressure level	dB(A)	67		
Net dimension (W×H×D)	mm	(1250×1615×765)×3		
Packing size (W×H×D)	mm	(1305×1790×820)×3		
Net weight	kg	303×3		
Gross weight	kg	322×3		
Operating temperature range	°C	Cooling: -5~48; Heating: -20~24; Simultaneous Cooling and Heating: -5~24		



HP	50	52	54	56
Model MDV-	1432(50)W/D2RN1T(C)	1460(52)W/D2RN1T(C)	1515(54)W/D2RN1T(C)	1580(56)W/D2RN1T(C)
Combined type	8HP+10HP+16HPx2	10HPx2+16HPx2	10HP+12HP+16HPx2	10HP+14HP+16HPx2
Power supply	V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Cooling	Capacity	143.2	146	151.5
	Power input	38.88	39.82	41.22
	EER	3.68	3.67	3.68
Heating	Capacity	158.5	163	169
	Power input	38.91	40.24	41.63
	COP	4.07	4.05	4.06
Connectable indoor unit	50~130% of outdoor unit capacity			
Compressor	Max. quantity	64		
	Type	DC inverter		
	Quantity	6		
Fan motor	Type	DC motor		
	Quantity	8		
Refrigerant	Type	R410A		
	Factory charging	10x2+13x2		
Pipe connections	Liquid pipe	mm		
	Low pressure gas pipe	mm		
	High pressure gas pipe	mm		
	High pressure gas balance pipe	mm		
	Oil balance pipe	mm		
Air flow rate	m³/h	54000		
Sound pressure level	dB(A)	68		
Net dimension (W×H×D)	mm	(1250×1615×765)×4		
Packing size (W×H×D)	mm	(1305×1790×820)×4		
Net weight	kg	255×2+303×2		
Gross weight	kg	273×2+322×2		
Operating temperature range	°C	Cooling: -5~48; Heating: -20~24; Simultaneous Cooling and Heating: -5~24		

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.

Connection piping diameter of single-unit is the stop valve diameter of the unit.

Connection piping diameter of multi-unit is the main pipe connecting to the first indoor branch joint, in case of the total equivalent liquid length is less than 90m. If the total equivalent liquid length is more than 90m, please refer to technical manual to choose the connection piping diameter.

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 R Series - Heat Recovery



HP	58	60	62	64
Model MDV-	1650(58)W/D2RN1T(C)	1700(60)W/D2RN1T(C)	1750(62)W/D2RN1T(C)	1800(64)W/D2RN1T(C)
Combined type	14HPx3+16HP	14HPx2+16HPx2	14HP+16HPx3	16HPx4
Power supply	V/Ph/Hz	380-415/3/50	380-415/3/50	380-415/3/50
Cooling	Capacity	165	170	175
	Power input	47.14	49.08	51.02
	EER	3.5	3.46	3.43
Heating	Capacity	185	190	195
	Power input	46.36	47.96	49.56
	COP	3.99	3.96	3.93
Connectable indoor unit	50~130% of outdoor unit capacity			
Compressor	Max. quantity	64		
	Type	DC inverter		
	Quantity	8		
Fan motor	Type	DC motor		
	Quantity	8		
Refrigerant	Type	R410A		
	Factory charging	13x4		
Pipe connections	Liquid pipe	mm		
	Low pressure gas pipe	mm		
	High pressure gas pipe	mm		
	High pressure gas balance pipe	mm		
	Oil balance pipe	mm		
Air flow rate	m³/h	60000		
Sound pressure level	dB(A)	69		
Net dimension (W×H×D)	mm	(1250×1615×765)×4		
Packing size (W×H×D)	mm	(1305×1790×820)×4		
Net weight	kg	303×4		
Gross weight	kg	322×4		
Operating temperature range	°C	Cooling: -5~48; Heating: -20~24; Simultaneous Cooling and Heating: -5~24		

VRF V4 Plus R Series - MS Box



Model	MS01/N1-C	MS02/N1-C	MS04/N1-C	MS06/N1-C	MS02E/N1-C	MS04E/N1-C
Applicable indoor units	All VRF indoor units except high static pressure duct					Only high static pressure duct
Max. indoor unit groups	1	2	4	6	1	1
Max. number of each group of indoor units	4	4	4	4	1	1
Max. number of downstream indoor units	4	8	16	24	1	1
Max. capacity of each group of indoor units	kW	16	16	16	20/25/28	40/45/56
Max. total capacity of all downstream indoor units	kW	16	28	45	20-28	40-56
Piping connections	Connected to outdoor unit	Liquid pipe	mm	Ø9.53	Ø12.7	Ø15.9
		High pressure gas pipe	mm	Ø15.9	Ø19.1	Ø22.2
		Low pressure gas pipe	mm	Ø19.1	Ø25.4	Ø31.8
	Connected to indoor unit	Liquid pipe	mm	Ø9.53	Ø9.53	Ø9.53
		Gas pipe	mm	Ø15.9	Ø15.9	Ø15.9
Sound pressure level	dB(A)	33	33	33	40	33
Net dimension (W×H×D)	mm	630×225×600	630×225×600	960×225×600	960×225×600	960×225×600
Packing size (W×H×D)	mm	725×325×685	725×325×685	1055×325×685	1055×325×685	1055×325×685
Net weight	kg	18	19.5	31	35	31
Gross weight	kg	25	27	40	44.5	40

Notes:

Sound values are measured in a semi-anechoic room, at a position 1m below the MS equipment in mode switch condition.

It is not recommended to install in a place where low noise performance is required.

VRF V4 Plus I Series - Heat Pump



HP	7	8	10	14	16
Model MDV-	V200W/DRN1	V224W/DRN1	V260W/DRN1	V400W/DRN1	V450W/DRN1
Power supply	380-415/3/50				
Cooling	Capacity	20.0	22.4	26.0	40.0
	Power input	6.1	6.8	7.6	11.9
	EER	3.28	3.29	3.42	3.32
Heating	Capacity	22.0	24.5	28.5	45.0
	Power input	6.1	5.9	6.8	11.1
	COP	3.61	4.15	4.19	4.05
Connectable indoor unit	50~130% of outdoor unit capacity				
Compressor	Max. quantity	10	11	12	14
	Type	DC inverter			
	Quantity	1	1	1	2
Fan motor	Type	DC motor		DC motor+AC motor	
	Quantity	2	2	2	2
Refrigerant	Type	R410A			
	Factory charging	kg	4.8	6.2	9
	Liquid pipe	mm	Φ9.53	Φ9.53	Φ12.7
Pipe connections	Gas pipe	mm	Φ19.1	Φ22.2	Φ25.4
	Air flow rate	m ³ /h	10999	10494	16575
Sound pressure level	dB(A)	59	59	60	62
Net dimension (W×H×D)	mm	1120×1558×528		1360×1650×540	
Packing size (W×H×D)	mm	1270×1720×565		1450×1785×560	
Net weight	kg	137	146.5	147	275
Gross weight	kg	153	162.5	163	290
Operating temperature range	°C	Cooling: -15~46; Heating: -15~24		Cooling: -5~48; Heating: -15~24	



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	380-415/3/50			
Cooling	Capacity	25.2	28.0	33.5
	Power input	5.9	7.2	9.1
	EER	4.29	3.89	3.7
Heating	Capacity	27.0	31.5	37.5
	Power input	6.2	7.6	9.0
	COP	4.39	4.14	4.17
Connectable indoor unit	50~130% of outdoor unit capacity			
Compressor	Max. quantity	13	16	16
	Type	DC inverter		DC inverter+Fixed
	Quantity	1	1	2
Fan motor	Type	DC motor		
	Quantity	1	1	2
	Max Static Pressure	20 (default)		
Refrigerant	Type	R410A		
	Factory charging	kg	10	12
	Liquid pipe	mm	Φ12.7	Φ15.9
Pipe connections	Gas pipe	mm	Φ25.4	Φ31.8
	Air flow rate	m ³ /h	11000	15000
Sound pressure level	dB(A)	57	57	60
Net dimension (W×H×D)	mm	960×1615×765		1250×1615×765
Packing size (W×H×D)	mm	1025×1790×830		1305×1790×820
Net weight	kg	205	275	325
Gross weight	kg	220	295	345
Operating temperature range	°C	Cooling: -5~48; Heating: -15~24		

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 2℃ DB/19℃ WB; Outdoor temperature 35℃ DB/24℃ WB; Heating: Indoor temperature 20℃ DB/15℃ WB; Outdoor temperature 7℃ DB/6℃ 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	16	20	22	24
Model MDV-	450W/DRN1-i(B)	560W/DRN1-i(C)	615W/DRN1-i(C)	670W/DRN1-i(C)
Power supply	380-415/3/50			
Cooling	Capacity	45.0	56.0	61.5
	Power input	14	17	18.8
	EER	3.21	3.3	3.27
Heating	Capacity	50.0	63.0	69.0
	Power input	12.8	16	17.9
	COP	3.91	3.94	3.86
Connectable indoor unit	50~130% of outdoor unit capacity			
Compressor	Max. quantity	20	33	36
	Type	DC inverter+Fixed		
	Quantity	3	3	3
Fan motor	Type	DC motor		DC motor+AC motor
	Quantity	2	2	2
	Max Static Pressure	20 (default)		
Refrigerant	Type	R410A		
	Factory charging	kg	15	17
	Liquid pipe	mm	Φ15.9	Φ19.1
Pipe connections	Gas pipe	mm	Φ31.8	Φ31.8
	Air flow rate	m ³ /h	15000	20000
Sound pressure level	dB(A)	60	62	63
Net dimension (W×H×D)	mm	1250×1615×765	1390×1615×765	1585×1615×765
Packing size (W×H×D)	mm	1305×1790×820	1455×1790×830	1650×1810×840
Net weight	kg	325	360	385
Gross weight	kg	345	375	400
Operating temperature range	°C	Cooling: -5~48; Heating: -15~24		



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	380-415/3/50			
Cooling	Capacity	73.0	78.5	85.0
	Power input	22.3	24.2	28.3
	EER	3.27	3.24	3
Heating	Capacity	81.5	87.5	95.0
	Power input	20.6	22.4	26.0
	COP	3.96	3.91	3.65
Connectable indoor unit	50~130% of outdoor unit capacity			
Compressor	Max. quantity	43	46	50
	Type	DC inverter+Fixed		
	Quantity	4	4	5
Fan motor	Type	AC motor		
	Quantity	4	4	4
	Max Static Pressure	20 (default)		
Refrigerant	Type	R410A		
	Factory charging	kg	27	27
	Liquid pipe	mm	Φ22.2	Φ22.2
Pipe connections	Gas pipe	mm	Φ38.1	Φ38.1
	Air flow rate	m ³ /h	33100	33100
Sound pressure level	dB(A)	64	64	65
Net dimension (W×H×D)	mm	2540×1615×765		
Packing size (W×H×D)	mm	2600×1800×825		
Net weight	kg	555	600	635
Gross weight	kg	590	635	670
Operating temperature range	°C	Cooling: -5~48; Heating: -15~24		

Notes:

Capacities are based on the following conditions:

Cooling: Indoor temperature 2℃ DB/19℃ WB; Outdoor temperature 35℃ DB/24℃ WB; Heating: Indoor temperature 20℃ DB/15℃ WB; Outdoor temperature 7℃ DB/6℃ 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 Mini Series - Heat Pump



HP			3	4	4.5	5	6
Model MDV-			V80W/DN1	V105W/DN1	V120W/DN1	V140W/DN1	V160W/DN1(B)
Power supply		V/Ph/Hz	220-240/1/50				
Cooling	Capacity	kW	7.2 (1.5-8.0)	9.0 (2.0-10.0)	12.3	14	15.5
	Power input	kW	1.85	2.30	3.25	3.95	4.52
	EER		3.90	3.92	3.78	3.54	3.43
Heating	Capacity	kW	7.2 (1.6-8.4)	9.0 (2.1-10.5)	13.2	15.4	17
	Power input	kW	1.79	2.27	3.47	4.16	4.78
	COP		4.02	3.97	3.8	3.7	3.56
Connectable	Total capacity		45~130% of outdoor unit capacity				
indoor unit	Max. quantity		4	5	6	6	7
Compressor	Type		Rotary				
	Quantity		1	1	1	1	1
Fan motor	Type		DC Motor				
	Quantity		1	1	2	2	2
Refrigerant	Type		R410A				
	Factory charging	kg	2.8	2.95	3.3	3.9	3.9
Pipe	Liquid pipe	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53	Φ9.53
connections	Gas pipe	mm	Φ15.9	Φ15.9	Φ15.9	Φ15.9	Φ19.1
Air flow rate		m³/h	5500	5500	6000	6000	6000
Sound pressure level		dB(A)	56	57	57	57	57
Net dimension (W×H×D)		mm	1073×966×396			900×1327×400	
Packing size(W×H×D)		mm	1120×1100×435			1030×1456×435	
Net weight		kg	75.5			95	100
Gross weight		kg	85.5			106	111
Operating temperature range		℃	Cooling: -15~43; Heating: -15~27				

Notes:
Capacities are based on the following conditions:
Cooling: Indoor temperature 20°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 1m above the floor.
In Mini VRF system, if only one indoor unit is connected, the capacity of indoor unit should be not more than outdoor unit capacity. If more than one indoor unit are connected, the capacity of each indoor unit should be not more than 8kW for refrigerant uniform distribution.

VRF V4 Plus Mini Series - Heat Pump



HP			4.5	5	6	6.5
Model MDV-			V120W/DRN1	V140W/DRN1	V160W/DRN1	V180W/DRN1
Power supply	V/Ph/Hz		380-415/3/50			
Cooling	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	Capacity	kW	13.2	15.4	17	19
	Power input	kW	3.47	4.16	4.78	5
	COP		3.8	3.7	3.56	3.8
Connectable	Total capacity		45~130% of outdoor unit capacity			
indoor unit	Max. quantity		6	6	7	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	3.3	3.9	3.9	4.5
Pipe	Liquid pipe	mm	Φ9.53	Φ9.53	Φ9.53	Φ9.53
connections	Gas pipe	mm	Φ15.9	Φ15.9	Φ19.1	Φ19.1
Air flow rate	m³/h		6000	6000	6000	6800
Sound pressure level	dB(A)		57	57	57	59
Net dimension (W×H×D)	mm		900×1327×400			
Packing size(W×H×D)	mm		1030×1456×435			
Net weight	kg		95		102	107
Gross weight	kg		106		113	118
Operating temperature range	°C		Cooling: -15~43; Heating: -15~27			

Notes:
Capacities are based on the following conditions:
Cooling: Indoor temperature 20°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 1m above the floor.
In Mini VRF system, if only one indoor unit is connected, the capacity of indoor unit should be not more than outdoor unit capacity. If more than one indoor unit are connected, the capacity of each indoor unit should be not more than 8kW for refrigerant uniform distribution.