

R410A

Midea

Commercial Air Conditioners

Full DC Inverter Mini VRF

10.5kW~18kW 60Hz

Features

- ❖ High efficiency DC twin rotary compressor.
- ❖ Compact and high performance DC fan motors.
- ❖ Large, powerful propeller fan.
- ❖ Low noise, quiet operation.
- ❖ Flexible piping configurations.
- ❖ Wide operating range - Cooling: from -15°C (5°F) to 43°C (109.4°F);
Heating: from -15°C (5°F) to 27°C (75.2°F).
- ❖ Flexible indoor connection options including duct, cassette, wall mounted, ceiling & floor.
- ❖ Self-diagnosis and system check functions; simple maintenance.

Specifications - 1Ph

Model			MDV-V105W/DVN1	MDV-V120W/DVN1	MDV-V140W/DVN1	MDV-V160W/DVN1	MDV-V180W/DVN1
Power supply			208-230V~, 1Ph, 60Hz				
Cooling	Capacity	kW	10.5	12.0	14.0	15.5	17.5
	Power input	kW	2.68	3.25	3.95	4.52	5.30
	EER		3.92	3.69	3.54	3.43	3.30
Heating	Capacity	kW	11.5	13.2	15.4	17.0	19.0
	Power input	kW	2.90	3.47	4.16	4.77	5.00
	COP		3.97	3.80	3.70	3.56	3.80
Connectable indoor units	Total capacity range		45%~130% of outdoor unit capacity				
	Max. quantity of IDUs		5	6	6	7	9
Compressor			DC inverter, twin rotary				
Motor			DC brushless				
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Charged volume		3.0 kg / 6.62 lbs	3.3 kg / 7.28 lbs	3.9 kg / 8.60 lbs	3.9 kg / 8.60 lbs	4.5 kg / 9.92 lbs
Sound pressure level	dB(A)		57	57	57	57	59
Piping connections (Liquid , Gas pipe)	mm		Φ9.5 , Φ15.9	Φ9.5 , Φ15.9	Φ9.5 , Φ15.9	Φ9.5 , Φ19.1	Φ9.5 , Φ19.1
	inch		3/8 , 5/8	3/8 , 5/8	3/8 , 5/8	3/8 , 3/4	3/8 , 3/4
Dimension (W×H×D)	mm		1,075×966×396	900×1,327×400			
	inch		42-5/16 × 38 × 15-9/16	35-1/2 × 52-1/4 × 15-3/4			
Packing (W×H×D)	mm		1,120×1,100×435	1,030×1,456×435			
	inch		44-1/16 × 43-5/16 × 17-1/8	40-9/16 × 57-5/16 × 17-1/8			
Net/ Gross weight	kg		78/85	95/106	95/106	102/113	107/118
	lbs		172/187	209/234	209/234	225/249	236/260

Notes:

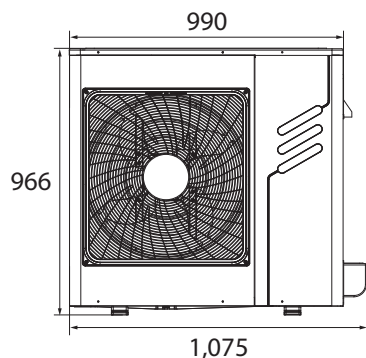
Cooling capacities are based on the conditions - Indoor temperature 27°C DB/19°C WB, outdoor temperature 35°C DB/24°C WB, piping length is 7.5m and level difference is 0.
Heating capacities are based on the conditions - Indoor temperature 20°C DB/15°C WB, outdoor temperature 7°C DB/6°C WB, piping length is 7.5m and level difference is 0.

Specifications - 3Ph

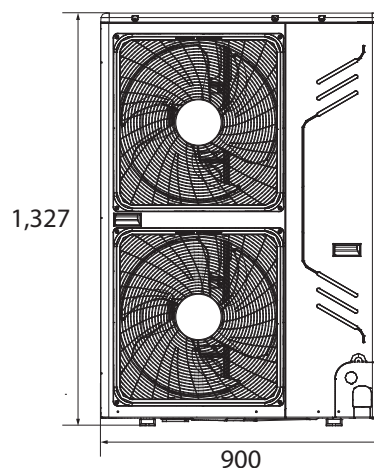
Model			MDV-V120W/DCN1	MDV-V140W/DCN1	MDV-V160W/DCN1
Power supply			380-415V~, 3Ph, 60Hz		
Cooling	Capacity	kW	12.0	14.0	15.5
	Power input	kW	3.25	3.95	4.52
	EER		3.69	3.54	3.43
Heating	Capacity	kW	13.2	15.4	17.0
	Power input	kW	3.47	4.16	4.77
	COP		3.80	3.70	3.56
Connectable indoor units	Total capacity range		45%~130% of outdoor unit capacity		
	Max. quantity of IDUs		6	6	7
Compressor			DC inverter, twin rotary		
Motor			DC brushless		
Refrigerant	Type		R410A	R410A	R410A
	Charged volume		3.3 kg / 7.28 lbs	3.9 kg / 8.60 lbs	3.9 kg / 8.60 lbs
Sound pressure level		dB(A)	57	57	57
Piping connections (Liquid , Gas pipe)		mm	Φ9.5 , Φ15.9	Φ9.5 , Φ15.9	Φ9.5 , Φ19.1
		inch	3/8 , 5/8	3/8 , 5/8	3/8 , 3/4
Dimension (W×H×D)		mm	900×1,327×400	900×1,327×400	900×1,327×400
		inch	35-1/2 × 52-1/4 × 15-3/4	35-1/2 × 52-1/4 × 15-3/4	35-1/2 × 52-1/4 × 15-3/4
Packing (W×H×D)		mm	1,030×1,456×435	1,030×1,456×435	1,030×1,456×435
		inch	40-9/16 × 57-5/16 × 17-1/8	40-9/16 × 57-5/16 × 17-1/8	40-9/16 × 57-5/16 × 17-1/8
Net/ Gross weight		kg	92/106	95/106	102/113
		lbs	203/234	209/234	225/249

Dimensions (unit: mm)

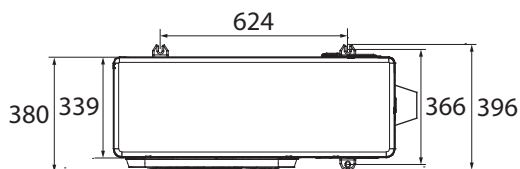
Front view (Model: 105)



Front view (Model: 120, 140, 160, 180)



Top view (Model: 105)



Top view (Model: 120, 140, 160, 180)



Dealer information



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



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



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



**Commercial Air Conditioner Division
Midea Group**

Address: Midea Headquarters Building, 6 Midea Avenue, Beijiao,
Shunde,
Foshan, Guangdong, China
Postal code: 528311
Tel: +86-757-26338346 Fax: +86-757-22390205
cac.midea.com global.midea.com
Note: Product specifications change from time to time as product
improvements and developments are released and may vary from
those in this document.