

# Duct series

Indoor Unit Lineup

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Low static pressure duct

Medium pressure duct (A5 type)

High Static Pressure Duct

Fresh Air Processing Unit

airmaprojects.com

## Low Static Pressure Duct

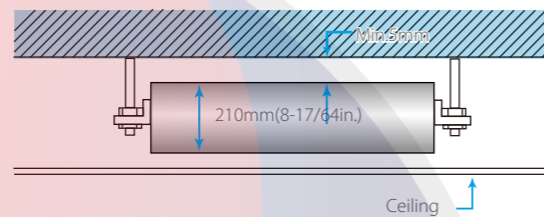
### Low Sound Level >>

Utilizes the centrifugal type blower, provides a minimum noise level of 24dB (A), an excellent choice for hotels and other sound-sensitive locations.



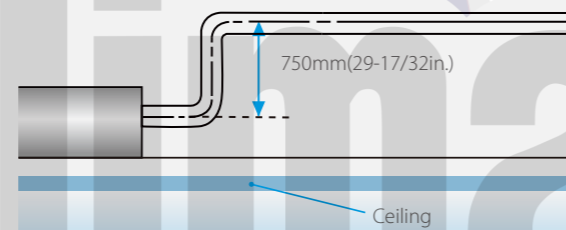
### Compact Design >>

Uniformed height of 210mm(8-17/64in.), compact design for easy locate where ceiling space is limited. Entire body adopts fireproof plastic material, the minimum weight is 14kg(30.9lbs).



### Options >>

Drain pump with a 750mm(29-17/32in.) pumphead is an optional accessory.

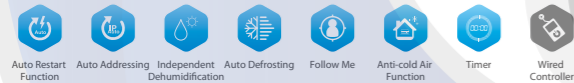


### V Shape Evaporator >>

V shape evaporator design enhances heat exchanging efficiency by around 22%.

### Easy Installation and Maintenance >>

The EXV is fixed inside the indoor unit.



### Specifications

Model	MDV-D18T3/VN1-C	MDV-D22T3/VN1-C	MDV-D28T3/VN1-C	MDV-D36T3/VN1-C	MDV-D45T3/VN1-C	MDV-D56T3/VN1-C	MDV-D71T3/VN1-C	
Power supply	1-phase,208-230V,60Hz							
Cooling capacity	kW	1.8	2.2	2.8	3.6	4.5	7.1	
	Btu/h	6100	7500	9600	12300	15400	24200	
Heating capacity	kW	2.2	2.6	3.2	4.0	5.0	8.0	
	Btu/h	7500	8900	10900	13600	17100	27300	
Power input	Cooling W	59	59	59	65	105	130	
	Heating W	59	59	59	65	105	130	
Airflow rate(H/M/L)	m³/h	578/512/409	578/512/409	578/512/409	617/551/441	824/690/609	824/690/609	1060/970/811
	CFM	340/301/241	340/301/241	340/301/241	363/324/260	485/406/358	485/406/358	624/571/477
External static pressure(Min/Std/Max)	Pa	0/10/30	0/10/30	0/10/30	0/10/30	0/10/30	0/10/30	
Sound pressure level(H/M/L)	dB(A)	35/27/24	35/27/24	35/27/24	38/32/28	39/32/29	39/32/29	41/33/30
Net dimension(WxHxD)	mm(in.)	740x210x470(29-9/64x8-17/64x18-1/2)			960x210x470(37-51/64x8-17/64x18-1/2)		1180x210x470(46-9/16x8-17/64x18-1/2)	
Packing dimension(WxHxD)	mm(in.)	910x230x510(35-53/64x9-1/16x20-5/64)			1130x230x510(44-31/64x9-1/16x20-5/64)		1350x230x510(53-5/32x9-1/16x20-5/64)	
Net/gross weight	kg(lbs.)	14.5/18(32.0/39.7)			18/22.5(39.7/49.6)		22.5/26.5(49.6/58.5)	
Piping connections	Liquid/gas pipe	mm(in.)			mm(in.)		mm(in.)	
	Drain piping	mm(in.)			mm(in.)		mm(in.)	
Standard controller	Wireless remote controller							

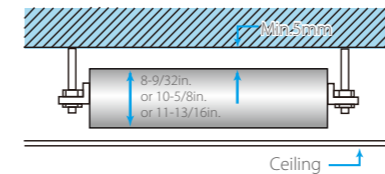
Notes:

- Nominal cooling capacities are based on the following conditions: return air temp.: 27°C(80.6°F)DB, 19°C(66.2°F)WB, outdoor temp.: 35°C(95°F)DB, equivalent ref. piping: 7.5m (24.6ft.) (horizontal).
- Nominal heating capacities are based on the following conditions: return air temp.: 20°C(68°F)DB, outdoor temp.: 7°C (44.6°F)DB, 6°C(42.8°F)WB, equivalent ref. piping: 7.5m (24.6ft.) (horizontal).
- Sound Level is measured 1.4m(4.59ft.) below the unit.
- \* External static pressure is based on high speed indoor air flow.
- No standard filter and air plenum box.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

## Medium Static Pressure Duct (A5 type)

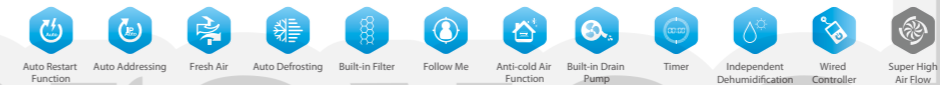
### Compact Size >>

Only 210mm(8-9/32in.) (models 22~71) or 270mm(10-5/8in.) (models 80 to 112) or 300mm(11-13/16in.) (model 140) in height.



### Flexible Control and Easy Maintenance >>

The electrical control box can be removed 1m away from the unit for easy maintenance access. Customers need to request this service in advance for it is done at Midea CAC factory. Standard functional ports are included such as Remote On/Off Dry contact switch and Alarm signal output (220V).



### Specifications

Model	MDV-D22T2/VN1-DA5	MDV-D28T2/VN1-DA5	MDV-D36T2/VN1-DA5	MDV-D45T2/VN1-DA5	MDV-D56T2/VN1-DA5	
Power supply	1-phase,208-230V,60Hz					
Cooling capacity	kW	2.2	2.8	3.6	4.5	5.6
	Btu/h	7500	9600	12300	15400	19100
Heating capacity	kW	2.6	3.2	4.0	5.0	6.3
	Btu/h	8200	10900	13600	17100	21500
Power input	Cooling W	66	72	77	100	100
	Heating W	66	72	77	100	100
Airflow rate(H/M/L)	m³/h	538/456/375	538/456/375	597/514/429	811/684/575	811/684/575
External static pressure(Min/Std/Max)	Pa	0/10/30	0/10/30	0/10/30	0/10/30	0/10/30
Sound pressure level(H/M/L)	dB(A)	36/35/32	36/35/32	38.6/37.5/33.8	39/37.9/34	39/37.9/34
Net dimension(WxHxD)	mm(in.)	30-45/64x8-17/64x19-11/16(780x210x500)			39-3/8x8-17/64x19-11/16(1000x210x500)	
Packing dimension(WxHxD)	mm(in.)	870x285x525(34-1/4x11-7/32x20-43/64)			1115x285x525(43-57/64x11-7/32x20-43/64)	
Net/gross weight	kg(lbs.)	17.5/20(38.6/44.1)			22.5/26(49.6/57.3)	
Piping connections	Liquid/gas pipe	mm(in.)			mm(in.)	
	Drain piping	mm(in.)			mm(in.)	
Standard controller	Wired controller					

Model	MDV-D71T2/VN1-BA5	MDV-D80T2/VN1-BA5	MDV-D90T2/VN1-BA5	MDV-D112T2/VN1-BA5	MDV-D140T2/VN1-BA5	
Power supply	1-phase,208-230V,60Hz					
Cooling capacity	kW	7.1	8.0	9.0	11.2	14.0
	Btu/h	24200	27300	30700	38200	47800
Heating capacity	kW	8.0	9.0	10.0	12.5	15.5
	Btu/h	27300	30700	34100	42700	52900
Power input	Cooling W	125	133	134	378	352
	Heating W	125	133	134	378	352
Airflow rate(H/M/L)	m³/h	1029/934/781	1345/1165/1013	1345/1165/1013	1800/1556/1400	1905/1636/1400
External static pressure(Min/Std/Max)	Pa	0/10/30	10/20/50	10/20/50	10/40/80	10/40/100
Sound pressure level(H/M/L)	dB(A)	41.4/39/35	45.4/39.8/37	45.4/39.8/37	48.0/41.9/38	47.7/43.2/39
Net dimension(WxHxD)	mm(in.)	48-1/32x8-17/64x19-11/16(1220x210x500)		48-27/64x10-5/8x30-33/64(1230x270x775)		50-25/32(1290x300x865)
Packing dimension(WxHxD)	mm(in.)	1335x285x525(52-9/16x11-7/32x20-43/64)		1355x350x795(53-11/32x13-25/31x31-19/64)		1400x375x925(55-1/8x14-49/64x36-27/64)
Net/gross weight	kg(lbs.)	28/31.5(61.8/69.5)		38/46.5(84/102.5)		40/48(88.2/105.8)
Piping connections	Liquid/gas pipe	mm(in.)			mm(in.)	
	Drain piping	mm(in.)			mm(in.)	
Standard controller	Wired controller					

Notes:

- Nominal cooling capacities are based on the following conditions: return air temp.: 27°C(80.6°F)DB, 19°C(66.2°F)WB, outdoor temp.: 35°C(95°F)DB, equivalent ref. piping: 7.5m (24.6ft.) (horizontal).
- Nominal heating capacities are based on the following conditions: return air temp.: 20°C(68°F)DB, outdoor temp.: 7°C (44.6°F)DB, 6°C(42.8°F)WB, equivalent ref. piping: 7.5m (24.6ft.) (horizontal).
- Sound Level is measured 1.4m(4.59ft.) below the unit.
- \* External static pressure is based on high speed indoor air flow.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

## High Static Pressure Duct

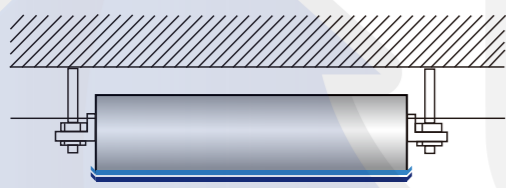
### Flexible Duct Design >>

External static pressure can be up to 196Pa (models 71 to 160) or 280Pa (models 200 to 560).  
 The maximum length for air supply is about 14m(45.9ft) at a height of 6.5m(21.3ft).  
 With a 420mm(16-17/32in.) (models 71 to 160) thick body, the minimum distance required above the ceiling is 450mm (17-23/32in.).



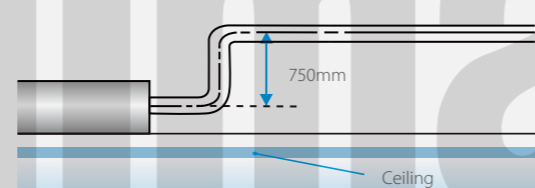
### Double-skin Drainage Pan >>

Double-skin drainage pan provides double protection for ceilings (models 71 to 160 and models 400 to 560).



### Option >>

Drain pump with 750mm(29-17/32in.) pump head is optional (models 71 to 160).



### Convenient Installation >>

The EXV is fixed inside the indoor unit (models 71 to 160), requires no extra connection.  
 Standard filter is housed in an aluminum frame (models 71 to 280), which is removable from the bottom in a downward direction.  
 Flange for air inlet/outlet duct connection is standard.

### Flexible Control and Convenient for Maintenance >>

Wired remote controller KJR-29B1/BK-E comes standard.  
 The display board is connected to the E-box in factory, easier troubleshooting with LED display.  
 Easy access filters both at the rear & bottom.  
 Standard functional port such as remote on/off dry contact.



## Specification

Model		MDV-D71T1/VN1-B	MDV-D80T1/VN1-B	MDV-D90T1/VN1-B	MDV-D112T1/VN1-B	MDV-D140T1/VN1-B	MDV-D160T1/VN1-B
Power supply		1-phase,208-230V,60Hz					
Cooling capacity	kW	7.1	8	9	11.2	14	16
	Btu/h	24200	27300	30700	38200	47800	54600
Heating capacity	kW	8	9	10	12.5	16	16.5
	Btu/h	27300	30700	34100	42700	54600	56300
Power input	Cooling	W	414	402	409	409	527
	Heating	W	414	402	409	409	527
Airflow rate(H/M/L)	m <sup>3</sup> /h	1720/1532/1338	1690/1560/1320	2252/2030/1610	2198/1978/1570	2969/2694/2469	2969/2694/2469
	CFM	1012/902/788	994/918/777	1326/1195/948	1294/1164/924	1746/1586/1453	1746/1586/1453
External static pressure(Min/Std/Max)	Pa	25/25/196	37/37/196	37/37/196	50/50/196	50/50/196	50/50/196
Sound pressure level(H/M/L)	dB(A)	48/46/44.5	48/46/44.5	52/49/47	52/49/47	53/50/48	54/52/50
Net dimension(WxHxD)	mm(in.)	952x420x690(37-31/64x16-17/32x27-11/64)				1300x420x691(51-3/16x15-3/4x27-13/64)	
Packing dimension(WxHxD)	mm(in.)	1090x440x768(42-29/32x17-21/64x30-15/64)				1436x450x768(56-17/32x17-23/32x30-15/64)	
Net/gross weight	kg(lbs.)	46.5/52(102.6/114.7)		50/56.5(110.3/124.6)		68/70(149.9/154.3)	
						69.5/76(153.3/167.6)	
Piping connections	Liquid/gas pipe	mm(in.)					
	Drain piping	mm(in.)					
Standard controller		Wired controller					

Model		MDV-D200T1/N1-B	MDV-D250T1/N1-B	MDV-D280T1/N1-B	MDV-D400T1/N1	MDV-D450T1/N1
Power supply		1-phase,208-230V,60Hz				
Cooling capacity	kW	20.0	25.0	28.0	40.0	45.0
	Btu/h	68200	85300	95500	136500	153500
Heating capacity	kW	22.5	26.0	31.5	45.0	50.0
	Btu/h	76800	88700	107500	153500	170600
Power input	Cooling	W	1516	1516	1516	1600
	Heating	W	1516	1516	1516	1600
Airflow rate(H/M/L)	m <sup>3</sup> /h	4700/4100/3599	4700/4100/3599	4700/4100/3599	7180/6150/4600	7180/6150/4600
	CFM	2766/2413/2118	2766/2413/2118	2766/2413/2118	4226/3620/2708	4226/3620/2708
External static pressure(Min/Std/Max)	Pa	50/200/280	50/200/280	50/200/280	50/200/280	50/200/280
Sound pressure level(H/M/L)	dB(A)	59/55/52	59/55/52	59/55/52	61/59/56	61/59/56
Net dimension(WxHxD)	mm(in.)	1440x505x925(56-11/16x19-7/8x36-27/6)			1970x668x902.5(77-9/16x15-3/4x35-17/32)	
Packing dimension(WxHxD)	mm(in.)	1509x550x990(59-13/32x21-21/32x38-31/32)			2095x800x964(82-31/64x31-1/2x37-61/64)	
Net/gross weight	kg(lbs.)	115/129(254/284)			235/250(518/551)	
Piping connections	Liquid/gas pipe	mm(in.)				mm(in.)
	Drain piping	mm(in.)				mm(in.)
Standard controller		Wired controller				

- Notes:
- Nominal cooling capacities are based on the following conditions: return air temp.: 27°C(80.6°F)DB, 19°C(66.2°F)WB, outdoor temp.: 35°C(95°F)DB, equivalent ref. piping: 7.5m (24.6ft.) (horizontal).
  - Nominal heating capacities are based on the following conditions: return air temp.: 20°C(68°F)DB, outdoor temp.: 7°C (44.6°F)DB, 6°C(42.8°F)WB, equivalent ref. piping: 7.5m (24.6ft.) (horizontal).
  - Sound Level is measured 1.4m(4.59ft.) below the unit.
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