

Engineering Data

Medium Static Pressure Duct

VRF IDU



MDV-D07T2/VN1-DA5(Ar)

MDV-D28T2/VN1-DA5(Ar)

MDV-D09T2/VN1-DA5(Ar)

MDV-D32T2/VN1-DA5(Ar)

MDV-D12T2/VN1-DA5(Ar)

MDV-D40T2/VN1-DA5(Ar)

MDV-D15T2/VN1-DA5(Ar)

MDV-D48T2/VN1-DA5(Ar)

MDV-D18T2/VN1-DA5(Ar)

MDV-D56T2/VN1-DA5(Ar)

MDV-D24T2/VN1-DA5(Ar)

Medium Static Pressure Duct

1 Specifications	4
2 Dimensions	8
3 Unit Placement	10
4 Piping Diagram	11
5 Wiring Diagram	12
6 Fan Performance	14
7 Capacity Tables.....	16
8 Electrical Characteristics.....	17
9 Sound Levels	18

1 Specifications

MDV- D07T2/VN1-DA5(At) / MDV- D09T2/VN1-DA5(At) / MDV- D12T2/VN1-DA5(At)

Table 1.1: MDV-D07(09, 12)T2/VN1-DA5(At) specifications

Model			MDV-D07T2/VN1-DA5(At)	MDV-D09T2/VN1-DA5(At)	MDV-D12T2/VN1-DA5(At)
Power supply			1 phase, 220-240V,60Hz		
Cooling ¹	Capacity	kBtu/h	7	9	12
	Power input	W	66	72	77
Heating ²	Capacity	kBtu/h	8	10	13
	Power input	W	66	72	77
Fan motor	Type		AC		
	Number		1		
Indoor coil	Number of rows		2	2	2
	Tube pitch × row pitch	in.(mm)	13/16×17/32(21×13.37)		
	Fin spacing	in.(mm)	1/16(1.5)	1/16(1.5)	1/16(1.5)
	Fin type		Hydrophilic aluminum		
	Tube OD and type	in.(mm)	9/32(Φ7), inner-groove tube		
	Dimensions (L×H ×W)	in.(mm)	20-9/32×5-25/32×1-3/64 (515×147×26.74)		
	Number of circuits		3	4	4
Indoor air flow(SH/H/M/L)		m ³ /h	588(30pa)/538/456/375	588(30pa)/538/456/375	614(30pa)/597/514/429
		CFM	346/317/268/221	346/317/268/221	361/351/303/253
Sound pressure level(H/M/L)		dB(A)	36/35/32	36/35/32	39/38/34
Indoor external static pressure		Pa	10(10~30)	10(10~30)	10(10~30)
Indoor unit	Net dimensions (W×H×D)	in.(mm)	30-45/64x8-17/64x19-11/16(780x210x500)		
	Packed dimensions(W×H×D)	in.(mm)	34-1/4×11-7/32×20-43/64(870×285×525)		
	Net/Gross weight		lbs.(kg)	38.6/44.1(17.5/20)	
Refrigerant type			R410A		
Pipe connections	Liquid pipe	in.(mm)	1/4(Φ6.35)		
	Gas pipe	in.(mm)	1/2(Φ12.7)		
	Drain pipe	in.(mm)	OD 63/64(Φ25)		

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.

MDV-D15T2/VN1-DA5(At) / MDV-D18T2/VN1-DA5(At) / MDV-D24T2/VN1-DA5(At)

Table 1.2: MDV-D15(18, 24)T2/VN1-DA5(At) specifications

Model			MDV-D15T2/VN1-DA5(At)	MDV-D18T2/VN1-DA5(At)	MDV-D24T2/VN1-DA5(At)
Power supply			1 phase, 220-240V,60Hz		
Cooling ¹	Capacity	kBtu/h	15	19	24
	Power input	W	100	100	125
Heating ²	Capacity	kBtu/h	17	21	27
	Power input	W	100	100	125
Fan motor	Type		AC		
	Number		1		
Indoor coil	Number of rows		2		
	Tube pitch × row pitch	in.(mm)	13/16×17/32(21×13.37)		
	Fin spacing	in.(mm)	3/64(1.3)		
	Fin type		Hydrophilic aluminum		
	Tube OD and type	in.(mm)	9/32(Φ7), inner-groove tube		
	Dimensions (L×H×W)	in.(mm)	28-57/64×5-25/32×1-3/64(734×147×26.74)		37-33/64×5-25/32×1-3/64(953×147×26.74)
	Number of circuits		6		
Indoor air flow(SH/H/M/L)		m ³ /h	763(30pa)/811/684/575	763(30pa)/811/684/575	1127(30pa)/1029/934/781
		CFM	449/477/403/338	449/477/403/338	663/606/550/460
Sound pressure level(H/M/L)		dB(A)	39/38/34	39/38/34	41/39/35
Indoor external static pressure		Pa	10(10~30)	10(10~30)	10(10~30)
Indoor unit	Net dimensions (W×H×D)	in.(mm)	39-3/8×8-17/64×19-11/16(1000×210×500)		48-1/32×8-17/64×19-11/16(1220×210×500)
	Packed dimensions (W×H×D)	in.(mm)	43-57/64×11-7/32×20-43/64(1115×285×525)		52-9/16×11-7/32×20-43/64(1335×285×525)
	Net/Gross weight	lbs.(kg)	49.6/57.3(22.5/26)		61.8/69.5(28/31.5)
Refrigerant type			R410A		
Pipe connections	Liquid pipe	in.(mm)	1/4(Φ6.35)	3/8(Φ9.53)	3/8(Φ9.53)
	Gas pipe	in.(mm)	1/2(Φ12.7)	5/8(Φ15.9)	5/8(Φ15.9)
	Drain pipe	in.(mm)	OD 63/64(Φ25)		

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.

Atom Series VRF Indoor Units



MDV-D28T2/VN1-DA5(At) / MDV-D32T2/VN1-DA5(At) / MDV-D40T2/VN1-DA5(At)

Table 1.3: MDV-D28(32,40)T2/VN1-DA5(At) specifications

Model			MDV-D28T2/VN1-DA5(At)	MDV-D32T2/VN1-DA5(At)	MDV-D40T2/VN1-DA5(At)
Power supply			1 phase, 220-240V,60Hz		
Cooling ¹	Capacity	kBtu/h	27	30	38
	Power input	W	133	134	378
Heating ²	Capacity	kBtu/h	30	34	42
	Power input	W	133	134	378
Fan motor	Type		AC		
	Number		1		
Indoor coil	Number of rows		4	4	4
	Tube pitch × row pitch	in.(mm)	13/16×17/32(21×13.37)		
	Fin spacing	in.(mm)	1/16(1.5)		
	Fin type		Hydrophilic aluminum		
	Tube OD and type	in.(mm)	9/32(Φ7), inner-groove tube		
	Dimensions (L×H×W)	in.(mm)	37-19/32×13-15/64×2-7/64(955×336×53.5)		
	Number of circuits		5	8	8
Indoor air flow(SH/H/M/L)	m ³ /h		1388(50pa)/1345/1165/10	1388(50pa)/1345/1165/10	1851(80pa)/1800/1556/140
			13	13	0
	CFM		817/792/686/596	817/792/686/596	1089/1059/916/824
Sound pressure level(H/M/L)	dB(A)		45/40/37	45/40/37	48/42/38
*Indoor external static pressure	Pa		20(10~50)	20(10~50)	40(10~80)
Indoor unit	Net dimensions (W×H×D)	in.(mm)	48-27/64×10-5/8×30-33/64(1230×270×775)		
	Packed dimensions (W×H×D)	in.(mm)	53-11/32×13-25/32×31-5/16(1355×350×795)		
	Net/Gross weight	kg	79.2/92.4(36/42)	79.2/92.4(36/42)	79.2/92.4(36/42)
Refrigerant type			R410A		
Pipe connections	Liquid pipe	in.(mm)	3/8(Φ9.53)		
	Gas pipe	in.(mm)	5/8(Φ15.9)		
	Drain pipe	in.(mm)	OD 63/64(Φ25)		

Notes:

- Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
- Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.

*This is the available static pressure range which means the unit can run stably in this static pressure range, and the optimal static pressure range please refers to the Installation Manual. When choosing any static pressure which is out of optimal static pressure range, risk like bigger noise, lower air flow volume etc. should be considered in advanced.

MDV-D48T2/VN1-DA5(At) / MDV-D56T2/VN1-DA5(At)

Table 1.3: MDV-D48(56)T2/VN1-DA5(At) specifications

Model			MDV-D48T2/VN1-DA5(At)	MDV-D56T2/VN1-DA5(At)
Power supply			1 phase, 220-240V, 60Hz	
Cooling ¹	Capacity	kBtu/h	47	51
	Power input	W	352	532
Heating ²	Capacity	kBtu/h	52	56
	Power input	W	352	532
Fan motor	Type		AC	
	Number		1	
Indoor coil	Number of rows		4	
	Tube pitch × row pitch	in.(mm)	1×55/64(25.4×22)	1×7/8(25.4×22)
	Fin spacing	in.(mm)	1/16(1.5)	1/16(1.6)
	Fin type		Hydrophilic aluminum	
	Tube OD and type	in.(mm)	9/32(Φ7), inner-groove tube	3/8(Φ9.53), inner-groove tube
	Dimensions (L×H×W)	in.(mm)	40-35/64×14-7/8×2-7/64(1030×378×53.5)	39-7/32×14×3-15/32 (996×355.6×88)
	Number of circuits		8	7
Indoor air flow(SH/H/M/L)		m ³ /h	1745(100pa)/1905/1636/1400	2892/2683/2472/2339
		CFM	1027/1121/963/824	1701/1578/1454/1376
Sound pressure level(H/M/L)		dB(A)	48/43/39	54/52/50
*Indoor external static pressure		Pa	40(10~100)	50(50~196)
Indoor unit	Net dimensions (W×H×D)	in.(mm)	50-25/32×11-13/16×34- 1/16 (1290×300×865)	52-3/64×16-21/32×27-13/64 (1322×423×691)
	Packed dimensions (W×H×D)	in.(mm)	55-1/8×14-49/64×36-27/64 (1400×375×925)	56-17/32×17-23/32×30-15/64 (1436×450×768)
	Net/Gross weight	lbs.(kg)	102.3/122.1(46.5/55.5)	147.4/160.6(67/73)
Refrigerant type			R410A	
Pipe connections	Liquid/Gas pipe	in.(mm)	3/8(Φ9.53)	
	Liquid/Gas pipe	in.(mm)	5/8(Φ15.9)	
	Drain pipe	in.(mm)	OD 63/64(Φ25)	

Notes:

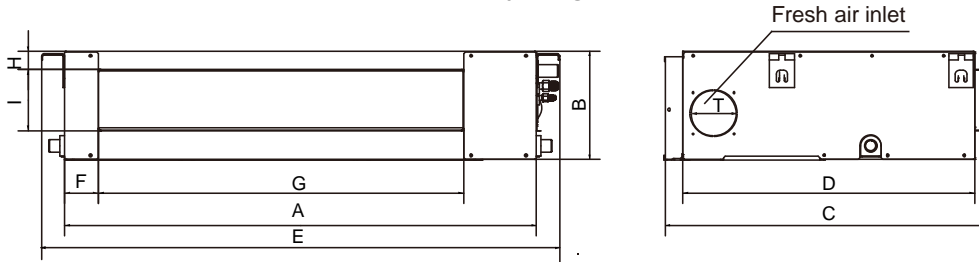
1. Indoor temperature 27°C DB, 19°C WB; outdoor temperature 35°C DB; equivalent refrigerant piping length 7.5m with zero level difference.
2. Indoor temperature 20°C DB; outdoor temperature 7°C DB, 6°C WB; equivalent refrigerant piping length 7.5m with zero level difference.
3. *This is the available static pressure range which means the unit can run stably in this static pressure range, and the optimal static pressure range please refers to the Installation Manual. When choosing any static pressure which is out of optimal static pressure range, risk like bigger noise, lower air flow volume etc. should be considered in advanced.

2 Dimensions

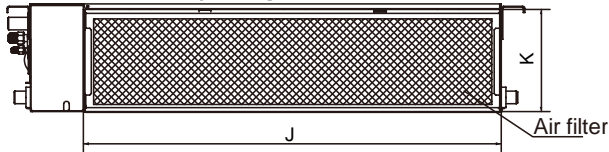
2.1 Unit Dimensions

Figure 2.1: 7.0-48.0kBtu/h Medium Static Pressure Duct dimensions (unit: mm)

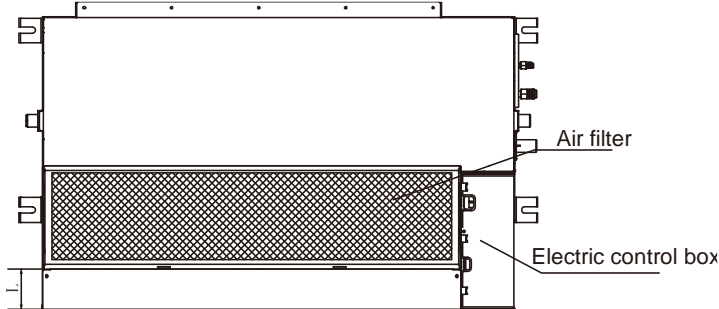
External dimensions and size of air outlet opening:



Size of air inlet opening (air intake from rear):



Size of air inlet opening (air intake from below):



Distance between the lugs:

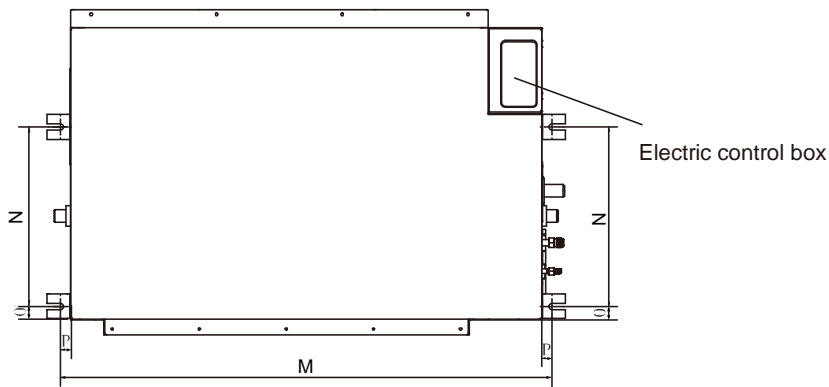


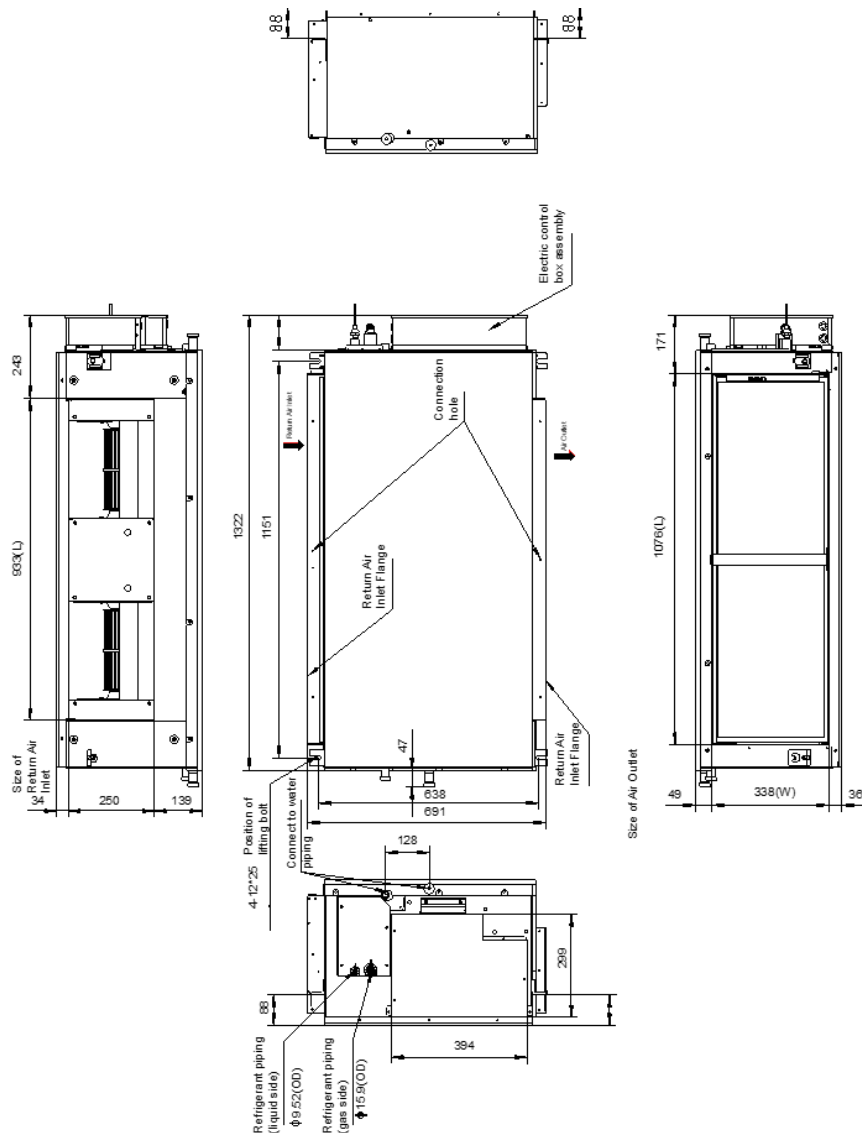
Table 2.1: 7.0-48.0kBtu/h Medium Static Pressure Duct External dimensions and size of air outlet opening (unit: mm)

Model names	External dimensions (mm)					Size of air outlet opening (mm)			
	A	B	C	D	E	F	G	H	I
MDV-D07(09,12)T2/VN1-DA5(At)	700	210	500	450	780	45	512	17	145
MDV-D15(18)T2/VN1-DA5(At)	920	210	500	450	1000	45	732	17	145
MDV-D24T2/VN1-DA5(At)	1140	210	500	450	1220	45	950	17	145
MDV-D28(32,40)T2/VN1-DA5(At)	1140	270	775	710	1230	65	933	35	179
MDV-D48T2/VN1-DA5(At)	1200	300	865	800	1290	80	969	40	204

Table 2.2: 7.0-48.0kBtu/h Medium Static Pressure Duct Size of air inlet opening and spacing between lugs (unit: mm)

Model names	Size of air inlet opening (mm)			Spacing between lugs (mm)				Fresh air inlet diameter
	J	K	L	M	N	O	P	
MDV-D07(09,12)T2/VN1-DA5(At)	600	196	-	740	350	35	20	Φ92
MDV-D15(18)T2/VN1-DA5(At)	820	200	-	960	350	35	20	Φ92
MDV-D24T2/VN1-DA5(At)	1040	200	-	1180	350	35	20	Φ92
MDV-D28(32,40)T2/VN1-DA5(At)	1035	260	20	1180	490	26	20	Φ125
MDV-D48T2/VN1-DA5(At)	1094	288	45	1240	500	26	20	Φ125

Figure 2.2: 56.0kBtu/h Medium Static Pressure Duct dimensions (unit: mm)



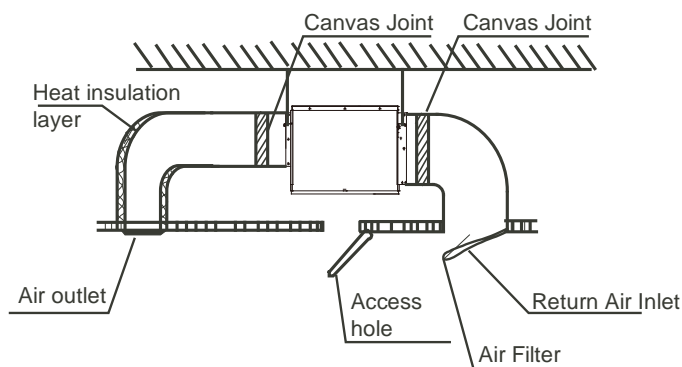
3 Unit Placement

3.1 Placement Considerations

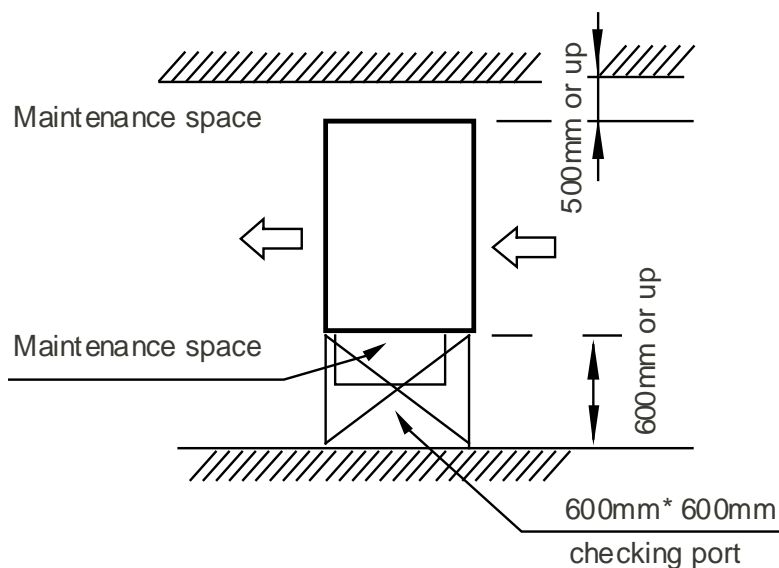
- Unit placement should take account of the following considerations:
 - Ensure the needed spaces for installation and maintenance.
 - The ceiling is horizontal, and its structure can endure the weight of the indoor unit.
 - The outlet and the inlet are not impeded.
 - The air flow can reach throughout the room.
 - The connecting pipe and drainpipe could be extracted out easily.
 - There is no direct radiation from heaters.

3.2 Space Requirements

- Below is the recommended duct installation method:

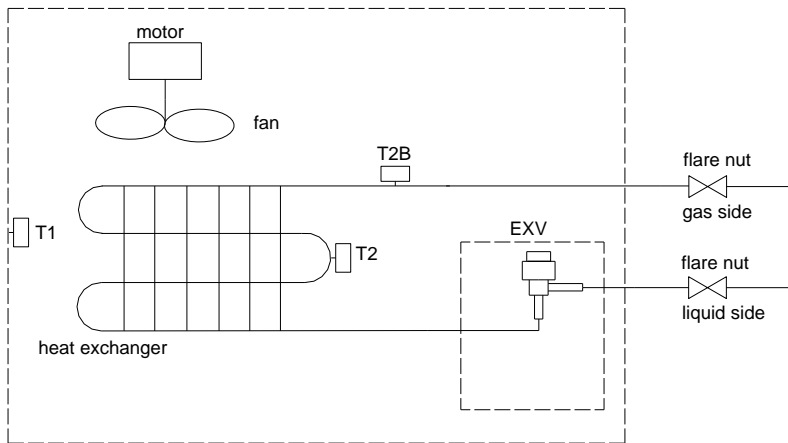


- Keep min. 600(mm)*600(mm) space for checking & maintenance:



4 Piping Diagram

Figure 4.1: 7.0-56.0kBtu/h Medium Static Pressure Duct piping diagram



Legend	
T1	Indoor ambient temperature sensor
T2	Indoor heat exchanger mid-point temperature sensor
T2B	Indoor heat exchanger outlet temperature sensor

5 Wiring Diagram

Figure 5.1:7.0-48.0kbtu/h Medium Static Pressure Duct wiring diagram

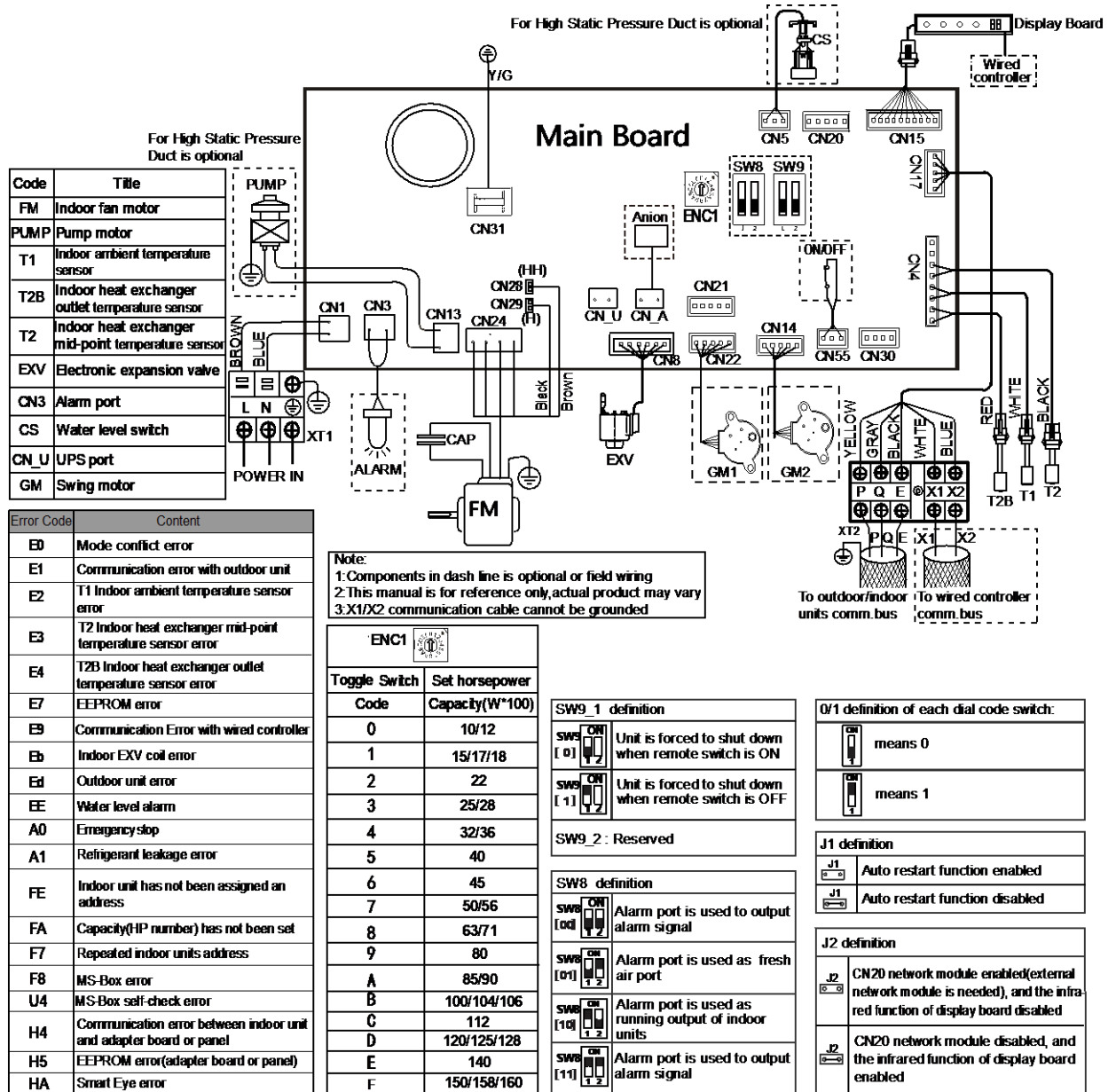
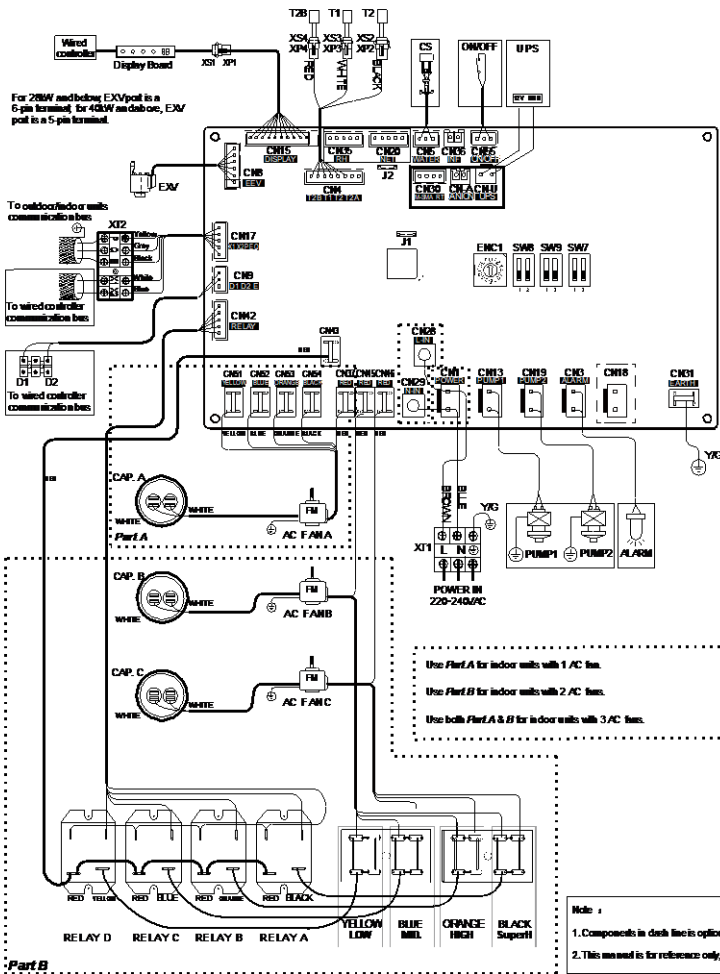


Figure 5.2: 56.0kBTU/h Medium Static Pressure Duct wiring diagram



ENCl	Set Horsepower (+100W)
Toggle Switch	Capacity
Code	140
E	150W SW ED
F	150W SW ED

ENCl	Set Horsepower (+100W)
Toggle Switch	Capacity
Code	Capacity
0	180
1	200
2	220/250/252
3	280
4	336
5	400
6	450
7	500/505/500

Code	Title
FM	Indoor fan motor
PUMP	Pump motor
T1	Indoor ambient temperature sensor
T2	Indoor heat exchange mid-point temperature sensor
T2B	Indoor heat exchange outlet temperature sensor
EXV	Electronic expansion valve
CAP	Capacitors
X1, X2	Terminals
X1, X4	Connectors
ONOFF	Remote on/off switch
CS	Water level switch
UPS	Uninterruptible Power Supply

Error Content	Error Code	Factory code	1682600019#
The indoor unit has not been assigned an address	FE	Date	2020/7/24
Revision	A		
J1 definition of each bit code (default)			
Modem coil error	E0	mean 0	mean 1
Communication error with outdoor unit	E1	SW7_1 Reserved	
T1(indoor ambient) temperature sensor error	E2	SW7_2 definition	
T2(indoor heat exchange mid-point) temperature sensor error	E3	Unit with capacity less than 1 kW	
T2B(indoor heat exchange outlet) temperature sensor error	E4	Unit with capacity equal or more than 18kW	
EERR0M error	E7	SW8 definition (function reserved)	
Communication error with wired controller	E9	Alarm port is used to output alarm signal (default)	
Outdoor unit error	Ea	Alarm port is used as fresh air port	
Indoor EXV coil error	Eb	Alarm port is used as running output of indoor units	
Communication error between indoor unit and outdoor board or panel	H4	Alarm port is used to output alarm signal	
EERR0M error (outdoor board or panel)	H5	SW9_1 definition (function reserved)	
Smart Eye error	HA	Unit is forced to shut down when remote switch is ON (default)	
Unit is forced to shut down when remote switch is OFF		Unit is forced to shut down when remote switch is OFF	
Repeated indoor unit address	F7	SW9_2 Reserved	
MS-Box error	F8	J1 definition	
MS-Box self-check error	H4	Auto restart function enabled (default)	
Refrigerant leakage error	A1	Auto restart function disabled	
Emergency stop	A0	J2 definition	
Water level alarm	EE	CH20 indoor module is called (external indoor module is a code) and the infrared function of display board is disabled	
Capacity (HP number) has not increased	FA	CH20 indoor module is disabled, and the infrared function of display board is disabled	

6 Fan Performance

6.1 How to Read the Diagram

The vertical axis is the External Static Pressure (Pa) while the horizontal axis represents the Air Flow (m³/h). The characteristic curve for the "SH," "H," "M," and "L" fan speed control, the nameplate values are shown based on the "H" air flow.

Therefore in the case of 80/90T2Type, the air flow is 900 m³/h, while the External Static Pressure is 80Pa at "H" position. If 90Pa needed, the airflow is at 'SH'.

6.2 Medium Static Pressure Duct fan performance diagram

Table 6.1: MDV-D07(09,12)T2/VN1-DA5(At) fan performance diagram

Table 6.2: MDV-D15(18)T2/VN1-DA5(At) fan performance diagram

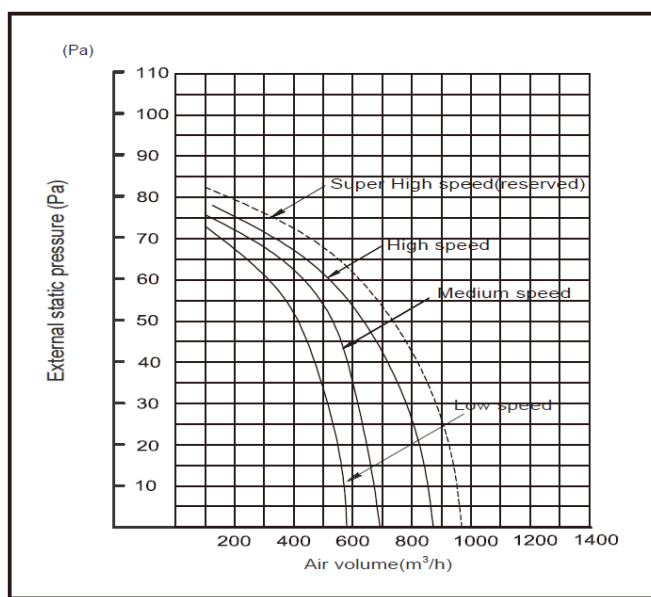
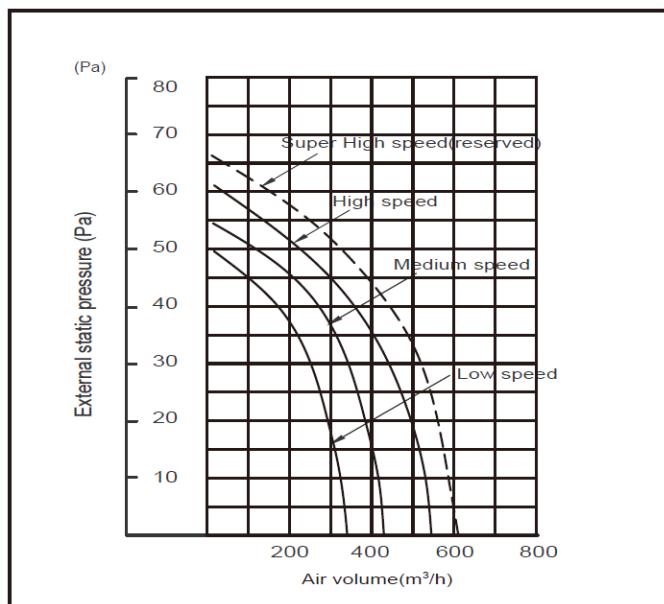


Table 6.3: MDV-D24T2/VN1-DA5(At) fan performance diagram

Table 6.4: MDV-D28(32)T2/VN1-DA5(At) fan performance diagram

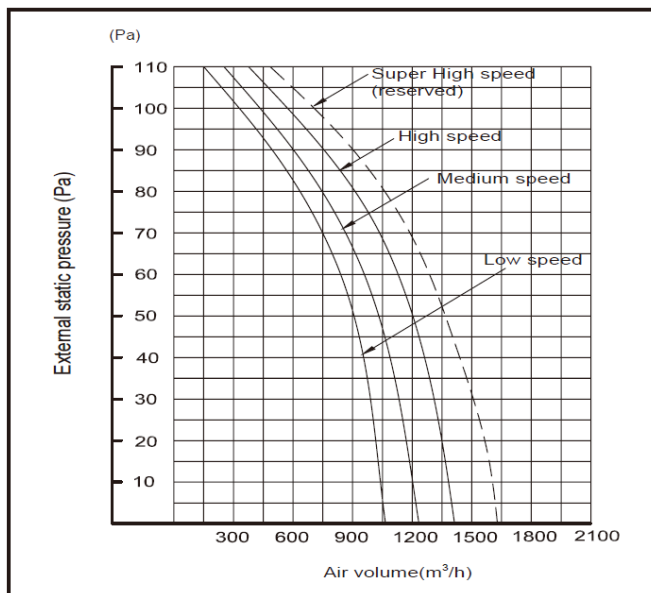
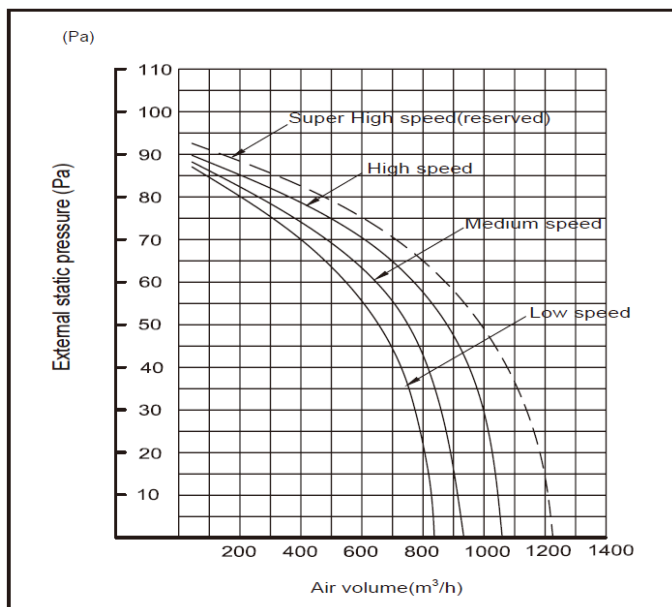


Table 6.5: MDV-D40T2/VN1-DA5(At) fan performance diagram

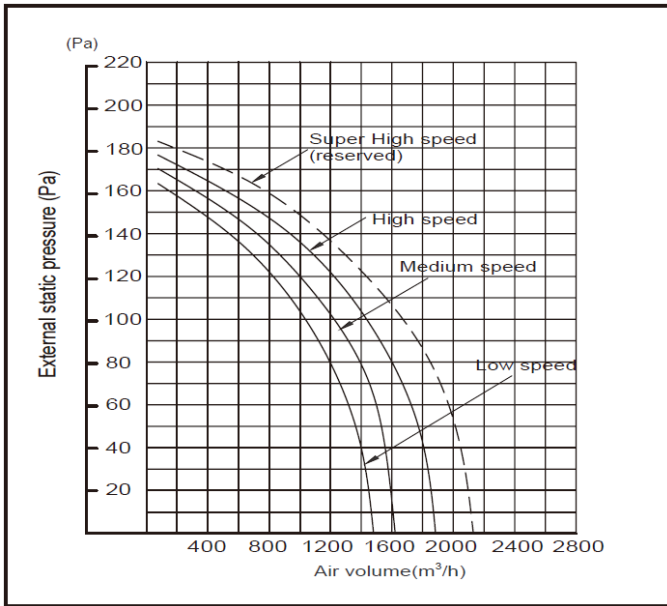


Table 6.6: MDV-D48T2/VN1-DA5(At) fan performance diagram

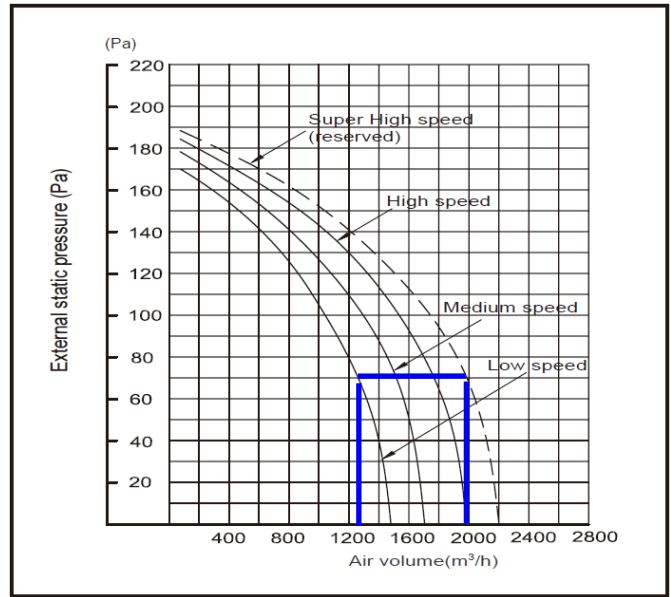
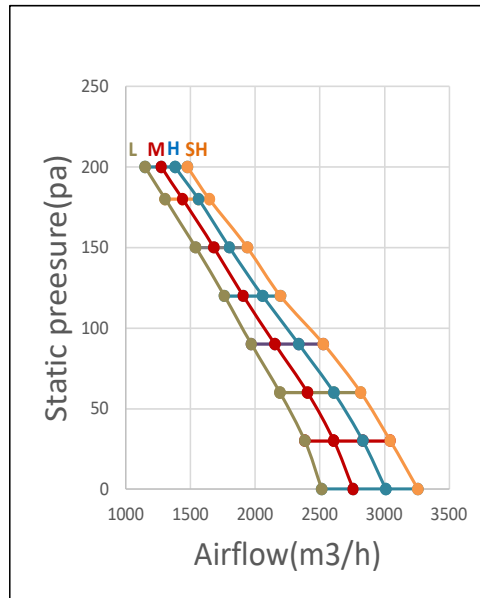


Table 6.7: MDV-D56T2/VN1-DA5(At) fan performance diagram



7 Capacity Tables

7.1 Cooling Capacity Table

Table 7.1: Medium Static Pressure Duct cooling capacity

Model	Indoor air temperature (°C WB/DB)													
	14/20		16/23		18/26		19/27		20/28		22/30		24/32	
	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
MDV-D07T2/VN1-DA5(At)	2.0	2.0	2.1	2.0	2.2	1.9	2.2	1.9	2.3	1.9	2.3	1.7	2.4	1.7
MDV-D09T2/VN1-DA5(At)	2.5	2.5	2.7	2.5	2.8	2.5	2.8	2.3	2.9	2.3	2.9	2.2	3.0	2.1
MDV-D12T2/VN1-DA5(At)	3.2	3.2	3.4	3.1	3.6	3.1	3.6	3.0	3.7	3.0	3.8	2.8	3.9	2.7
MDV-D15T2/VN1-DA5(At)	4.0	3.9	4.3	3.9	4.5	3.9	4.5	3.7	4.6	3.6	4.7	3.5	4.8	3.3
MDV-D18T2/VN1-DA5(At)	5.0	4.9	5.3	4.8	5.6	4.8	5.6	4.6	5.7	4.5	5.8	4.3	6.0	4.1
MDV-D24T2/VN1-DA5(At)	6.3	6.2	6.7	6.1	7.0	6.1	7.1	5.9	7.2	5.7	7.4	5.4	7.6	5.2
MDV-D28T2/VN1-DA5(At)	7.1	6.8	7.6	6.9	7.9	6.8	8.0	6.6	8.1	6.4	8.3	6.1	8.5	5.8
MDV-D32T2/VN1-DA5(At)	8.0	7.7	8.5	7.7	8.9	7.6	9.0	7.4	9.1	7.1	9.4	6.8	9.6	6.5
MDV-D40T2/VN1-DA5(At)	9.9	9.6	10.6	9.7	11.1	9.6	11.2	9.2	11.3	8.9	11.6	8.5	11.9	8.2
MDV-D48T2/VN1-DA5(At)	12.4	12.0	13.2	12.0	13.8	11.9	14.0	11.5	14.2	11.2	14.5	10.6	14.9	10.2
MDV-D56T2/VN1-DA5(At)	14.2	13.8	15.1	13.7	15.8	13.6	16.0	13.1	16.2	12.7	16.6	12.1	17.0	11.7

Abbreviations:

TC: Total capacity (kW)

SC: Sensible capacity(kW)

Notes:

1. Shaded cells indicate rating condition.

7.2 Heating Capacity Table

Table 7.2: Medium Static Pressure Duct heating capacity

Model	Indoor air temperature (°C DB)					
	16	18	20	21	22	24
	TC	TC	TC	TC	TC	TC
MDV-D07T2/VN1-DA5(At)	2.6	2.6	2.4	2.3	2.3	2.1
MDV-D09T2/VN1-DA5(At)	3.4	3.4	3.2	3.1	3.0	2.8
MDV-D12T2/VN1-DA5(At)	4.2	4.2	4.0	3.8	3.8	3.5
MDV-D15T2/VN1-DA5(At)	5.3	5.3	5.0	4.8	4.7	4.4
MDV-D18T2/VN1-DA5(At)	6.7	6.6	6.3	6.1	5.9	5.5
MDV-D24T2/VN1-DA5(At)	8.5	8.4	8.0	7.8	7.5	7.0
MDV-D28T2/VN1-DA5(At)	9.5	9.5	9.0	8.7	8.5	7.8
MDV-D32T2/VN1-DA5(At)	10.6	10.5	10.0	9.7	9.4	8.8
MDV-D40T2/VN1-DA5(At)	13.3	13.1	12.5	12.1	11.8	10.9
MDV-D48T2/VN1-DA5(At)	16.4	16.3	15.5	15.0	14.6	13.5
MDV-D56T2/VN1-DA5(At)	18.0	17.9	17.0	16.5	16.0	14.8

Abbreviations:

TC: Total capacity (kW)

Notes:

1. Shaded cells indicate rating condition.

8 Electrical Characteristics

Table 8.1: Medium Static Pressure Duct electrical characteristics

Model name	Power supply						Indoor fan motors	
	Hz	Volts	Min. volts	Max. volts	MCA	MFA	Rated motor output (kW)	FLA
MDV-D07T2/VN1-DA5(At)	60	220-240	198	264	0.3	15	0.03	0.2
MDV-D09T2/VN1-DA5(At)	60	220-240	198	264	0.3	15	0.03	0.2
MDV-D12T2/VN1-DA5(At)	60	220-240	198	264	0.3	15	0.03	0.2
MDV-D15T2/VN1-DA5(At)	60	220-240	198	264	0.4	15	0.03	0.3
MDV-D18T2/VN1-DA5(At)	60	220-240	198	264	0.4	15	0.03	0.3
MDV-D24T2/VN1-DA5(At)	60	220-240	198	264	0.6	15	0.06	0.5
MDV-D28T2/VN1-DA5(At)	60	220-240	198	264	1.0	15	0.15	0.8
MDV-D32T2/VN1-DA5(At)	60	220-240	198	264	1.0	15	0.15	0.8
MDV-D40T2/VN1-DA5(At)	60	220-240	198	264	1.3	15	0.15	1.0
MDV-D48T2/VN1-DA5(At)	60	220-240	198	264	1.6	15	0.24	1.3
MDV-D56T2/VN1-DA5(At)	60	208-230V	187	253	4.7	15	0.56	3.8

Abbreviations:

MCA: Minimum Circuit Amps

MFA: Maximum Fuse Amps

FLA: Full Load Amps

9 Sound Levels

9.1 Overall

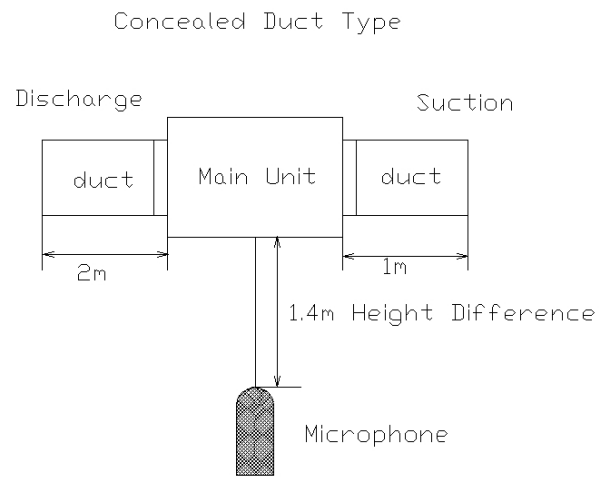
Table 9.1: Medium Static Pressure Duct sound pressure levels¹

Model name	Sound pressure levels dB(A)		
	H	M	L
MDV-D07T2/VN1-DA5(At)	36	35	32
MDV-D09T2/VN1-DA5(At)	36	35	32
MDV-D12T2/VN1-DA5(At)	38.6	37.5	33.8
MDV-D15T2/VN1-DA5(At)	39	37.9	34
MDV-D18T2/VN1-DA5(At)	39	37.9	34
MDV-D24T2/VN1-DA5(At)	41.4	39	35
MDV-D28T2/VN1-DA5(At)	45.4	39.8	37
MDV-D32T2/VN1-DA5(At)	45.4	39.8	37
MDV-D40T2/VN1-DA5(At)	48.0	41.9	38
MDV-D48T2/VN1-DA5(At)	47.7	43.2	39
MDV-D56T2/VN1-DA5(At)	54	52	50

Notes:

1. Sound pressure levels are measured 1.4m below the unit in a semi-anechoic chamber. During in-situ operation, sound pressure levels may be higher as a result of ambient noise.

Figure 9.1: sound pressure level measurement



9.2 Octave Band Levels

Figure 9.2: MDV-D07T2/VN1-DA5(At) octave band levels

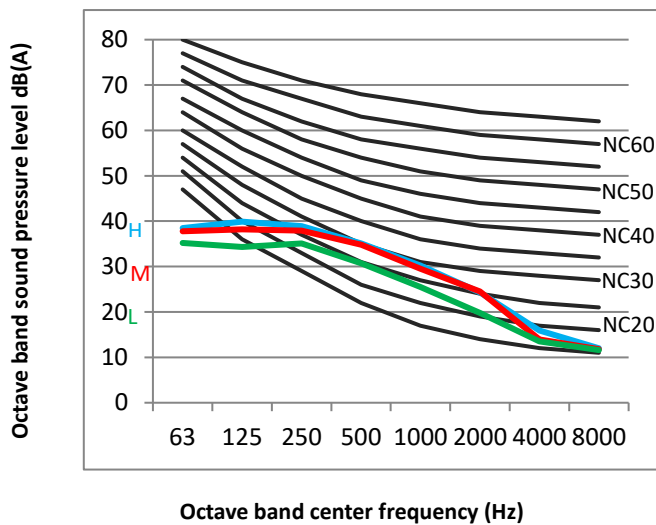


Figure 9.3: MDV-D09T2/VN1-DA5(At) octave band levels

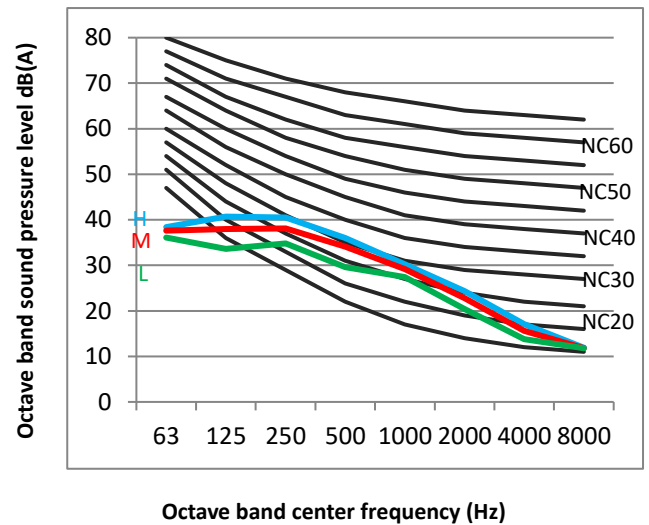


Figure 9.4: MDV-D12(15,18)T2/VN1-DA5(At) octave band levels

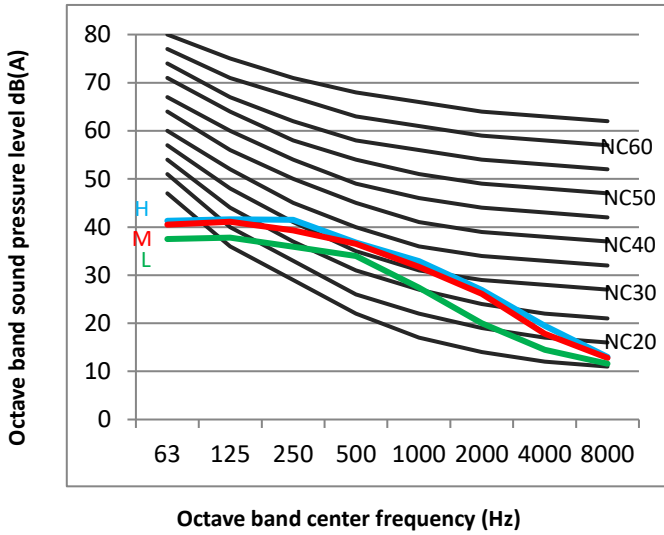


Figure 9.5: MDV-D24T2/VN1-DA5(At) octave band levels

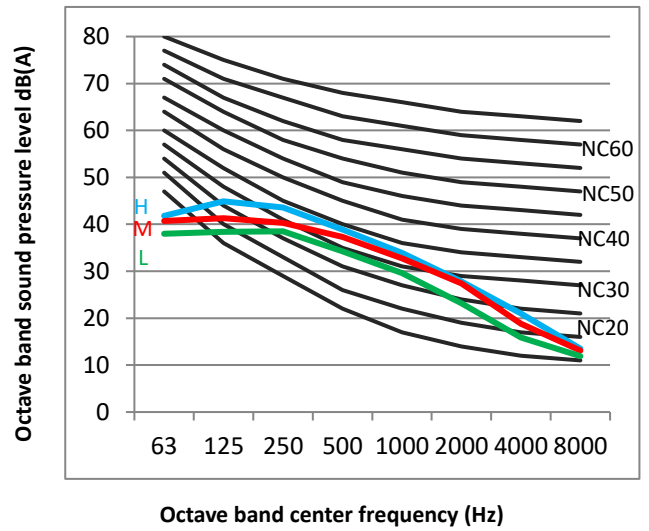


Figure 9.6: MDV-D28(32)T2/VN1-DA5(At) octave band levels

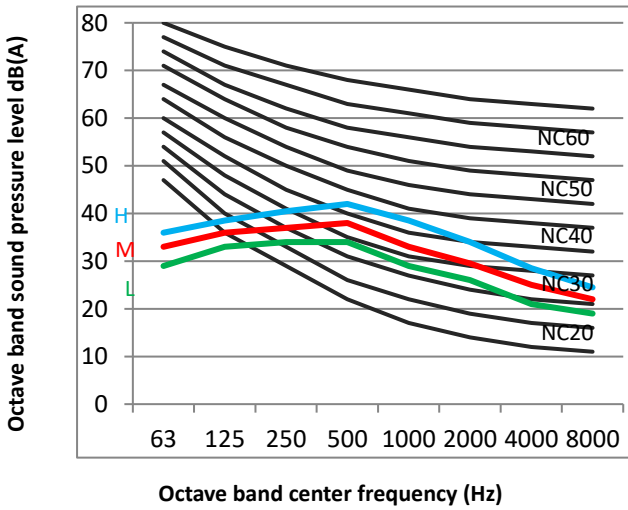


Figure 9.7: MDV-D40T2/VN1-DA5(At) octave band levels

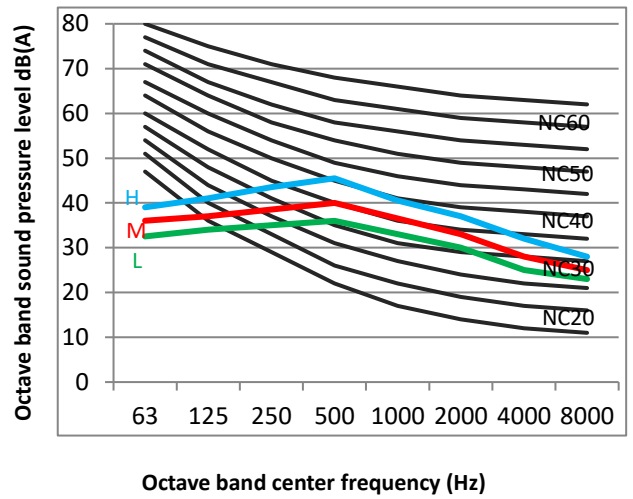


Figure 9.8: MDV-D48T2/VN1-DA5(At) octave band levels

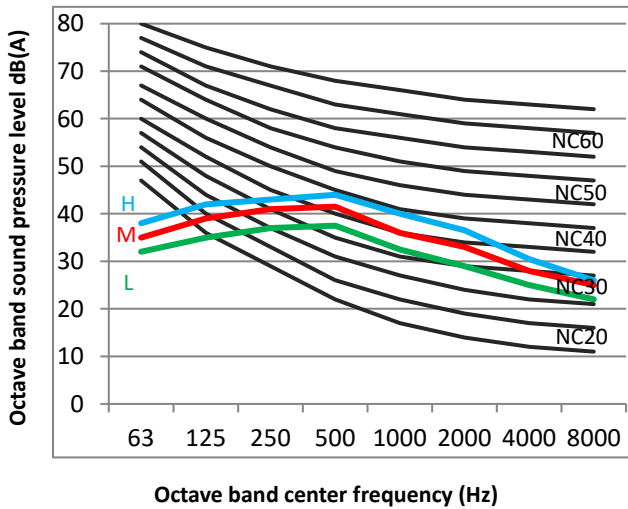
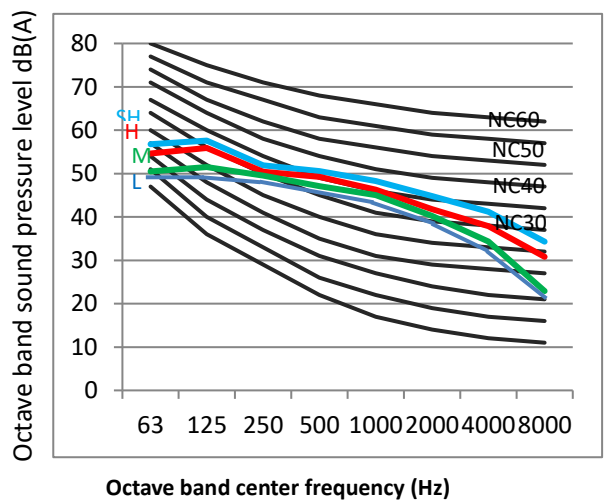


Figure 9.9: MDV-D56T2/VN1-DA5(At) octave band levels



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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.

