R410A

Commercial Air Conditioners

Engineering Data

High Static Pressure Duct

VRF IDU




MDV-D71T1/N1-B(B)

MDV-D80T1/N1-B(B)

MDV-D90T1/N1-B(B)

MDV-D112T1/N1-B(B)

MDV-D140T1/N1-B(B)

MDV-D160T1/N1-B(B)

MDV-D200T1/N1-B(B)

MDV-D250T1/N1-B(B)

MDV-D280T1/N1-B(B)

MDV-D400T1/N1(B)

MDV-D450T1/N1(B)

MDV-D560T1/N1(B)

High Static Pressure Duct

1 Specifications

MDV-D71T1/N1-B(B) / MDV-D80T1/N1-B(B) / MDV-D90T1/N1-B(B)

Table 1.1: MDV-D71(80, 90)T1/N1-B(B) specifications

Model			MDV-D71T1/N1-B(B)	MDV-D80T1/N1-B(B)	MDV-D90T1/N1-B(B)
Power supply			1 phase, 220-240V, 50Hz		
Cooling[1]	Capacity	kW	7.1	8.0	9.0
	Power input	W	263	263	423
Heating[2]	Capacity	kW	8.0	9.0	10.0
	Power input	W	263	263	423
Fan motor	Type		AC		
	Number		1		
Indoor coil	Number of rows		2	2	3
	Tube pitch × row pitch	mm	25.4×22		
	Fin spacing	mm	1.5	1.5	1.6
	Fin type		Hydrophilic aluminum		
	Tube OD and type	mm	Φ9.53 Inner-groove		
	Dimensions (L×H ×W)	mm	700×356×44	700×356×44	700×356×66
	Number of circuits		3	3	7
Air flow rate(SH/H/M/L)[3]		m^3/h	1395/1315/1248/1204	1361/1285/1217/1175	1801/1687/1643/1431
Sound pressure level(SH/H/M/L)		dB(A)	48/46/44/43	48/46/45/43	52/49/47/45
Sound power level(SH/H/M/L)		dB(A)	61/59/57/56	61/49/58/56	65/62/60/58
Indoor external static pressure*		Pa	25(25~ 196)	37(37~ 196)	37(37~ 196)
Indoor unit	Net dimensions (W×H×D)	mm	965×423×690		
	Packed dimensions(W×H×D)	mm	1090×440×768		
	Net/Gross weight	kg	45/50	45/50	46.5/52.4
Refrigerant type			R410A		
Pipe connections	Liquid pipe	mm	Φ9.53		
	Gas pipe	mm	Φ15.9		
	Drain pipe	mm	OD 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. The default fan speed is SH/M/L. The other fan speed combinations can be set by wired controller or remote controller.
4. *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-D112T1/N1-B(B) / MDV-D140T1/N1-B(B) / MDV-D160T1/N1-B(B)

Table 1.2: MDV-D112(140, 160)T1/N1-B(B) specifications

Model			MDV-D112T1/N1-B(B)	MDV-D140T1/N1-B(B)	MDV-D160T1/N1-B(B)
Power supply			1 phase, 220-240V, 50Hz		
Cooling[1]	Capacity	kW	11.2	14	16
	Power input	W	524	724	940
Heating[2]	Capacity	kW	12.5	16	17
	Power input	W	524	724	940
Fan motor	Type		AC		
	Number		1		
Indoor coil	Number of rows		3	4	4
	Tube pitch × row pitch	mm	25.4×22		
	Fin spacing	mm	1.6		
	Fin type		Hydrophilic aluminum		
	Tube OD and type	mm	Φ9.53 Inner-groove		
	Dimensions (L×H×W)	mm	700×356×66	996×355.6×88	996×355.6×88
	Number of circuits		7		
Air flow rate(SH/H/M/L)[3]		m^3/h	2063/1939/1716/1533	2965/2561/2207/1905	3417/2875/2587/2383
Sound pressure level(SH/H/M/L)		dB(A)	52/49/47/46	53/50/48/46	54/52/50/48
Sound power level(SH/H/M/L)		dB(A)	65/62/60/59	66/63/61/59	67/65/63/61
Indoor external static pressure*		Pa	50(50~ 196)	50(50~ 196)	50(50~ 196)
Indoor unit	Net dimensions (W×H×D)	mm	965×423×690	1322×423×691	
	Packed dimensions (W×H×D)	mm	1090×440×768	1436×450×768	
	Net/Gross weight	kg	48/53	67/73	67/73
Refrigerant type			R410A		
Pipe connections	Liquid/Gas pipe	mm	Φ9.53/Φ15.9		
	Drain pipe	mm	OD 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. The default fan speed is SH/M/L. The other fan speed combinations can be set by wired controller or remote controller.
4. *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-D200T1/N1-B(B) / MDV-D250T1/N1-B(B) / MDV-D280T1/N1-B(B)

Table 1.3: MDV-D200(250, 280)T1/N1-B(B) specifications

Model			MDV-D200T1/N1-B(B)	MDV-D250T1/N1-B(B)	MDV-D280T1/N1-B(B)
Power supply			1 phase, 220-240V, 50Hz		
Cooling[1]	Capacity	kW	20.0	25.0	28.0
	Power input	W	1408	1408	1408
Heating[2]	Capacity	kW	22.5	26.0	31.5
	Power input	W	1408	1408	1408
Fan motor	Type		AC		
	Number		2		
Indoor coil	Number of rows		4	4	4
	Tube pitch × row pitch	mm	25.4×22		
	Fin spacing	mm	1.8		
	Fin type		Hydrophilic aluminum		
	Tube OD and type	mm	Φ9.53 Inner-groove		
	Dimensions (L×H×W)	mm	1125×508×88	1125×508×88	1125×512×88
	Number of circuits		20		
Air flow rate(SH/H/M/L)[3]		m^3/h	4600/3765/2900/2100		
Sound pressure level(SH/H/M/L)		dB(A)	57/56/52/47		
Sound power level(SH/H/M/L)		dB(A)	70/69/65/60		
Indoor external static pressure*		Pa	250(50~300)		
Indoor unit	Net dimensions (W×H×D)	mm	1454×515×931		
	Packed dimensions (W×H×D)	mm	1509×550×990		
	Net/Gross weight	kg	124/135		
Refrigerant type			R410A		
Pipe connections	Liquid/Gas pipe	mm	Φ12.7/Φ22.2		
	Drain pipe	mm	OD Φ32		

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. The default fan speed is SH/M/L. The other fan speed combinations can be set by wired controller or remote controller.
4. *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-D400T1/N1(B) / MDV-D450T1/N1(B) / MDV-D560T1/N1(B)

Table 1.4: MDV-D400(450, 560)T1/N1-B(B) specifications

Model			MDV-D400T1/N1(B)	MDV-D450T1/N1(B)	MDV-D560T1/N1(B)
Power supply			1 phase, 220-240V, 50Hz		
Cooling[1]	Capacity	kW	40.0	45.0	56.0
	Power input	W	2100	2100	2800
Heating[2]	Capacity	kW	45.0	50.0	63.0
	Power input	W	2100	2100	2800
Fan motor	Type		AC		
	Number		3		
Indoor coil	Number of rows		4		
	Tube pitch × row pitch	mm	21×13.37		
	Fin spacing	mm	1.5		
	Fin type		Hydrophilic aluminum		
	Tube OD and type	mm	Φ7 Inner-groove		
	Dimensions (L×H×W)	mm	1602×588×53.48	1602×588×53.48	1602×588×53.48
	Number of circuits		28	28	28
Air flow rate(SH/H/M/L)[3]		m^3/h	7500/5800/4310/3090	7500/5800/4310/3090	8400/5859/4300/3100
Sound pressure level(SH/H/M/L)		dB(A)	60/58/54/49	60/58/54/49	61/56/51/46
Sound power level(SH/H/M/L)		dB(A)	75/73/69/64	75/73/69/64	76/71/66/61
Indoor external static pressure*		Pa	300(50~400)		
Indoor unit	Net dimensions (W×H×D)	mm	2010×680×905		
	Packed dimensions (W×H×D)	mm	2095×800×964		
	Net/Gross weight	kg	203/233		
Refrigerant type			R410A		
Pipe connections	Liquid/Gas pipe	mm	Φ15.9 / Φ28.6		
	Drain pipe	mm	OD Φ32		

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. The default fan speed is SH/M/L. The other fan speed combinations can be set by wired controller or remote controller.
4. *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: 7.1-11.2kW High Static Pressure Duct dimensions (unit: mm)

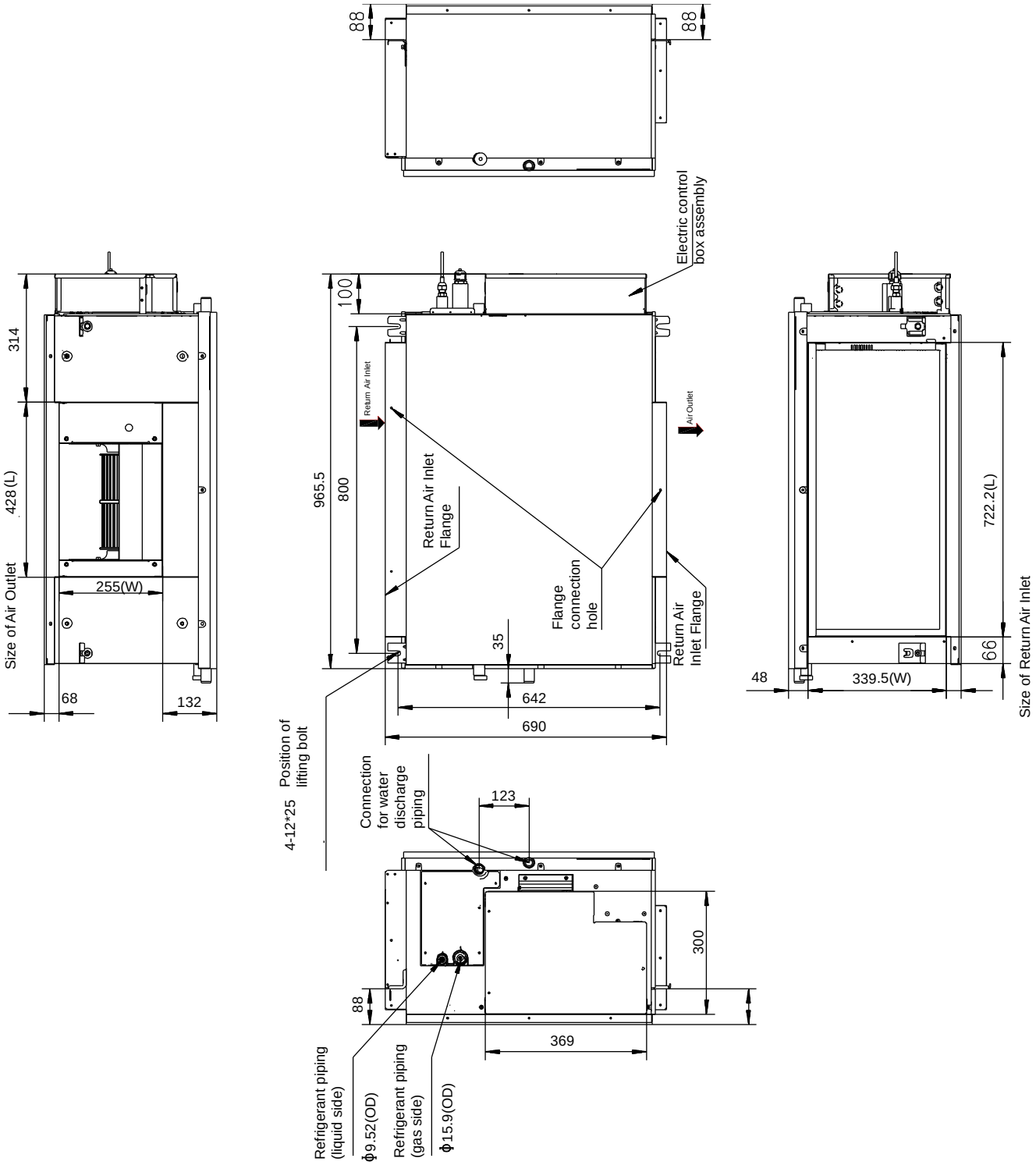


Figure 2.2: 14.0-16.0kW High Static Pressure Duct dimensions (unit: mm)

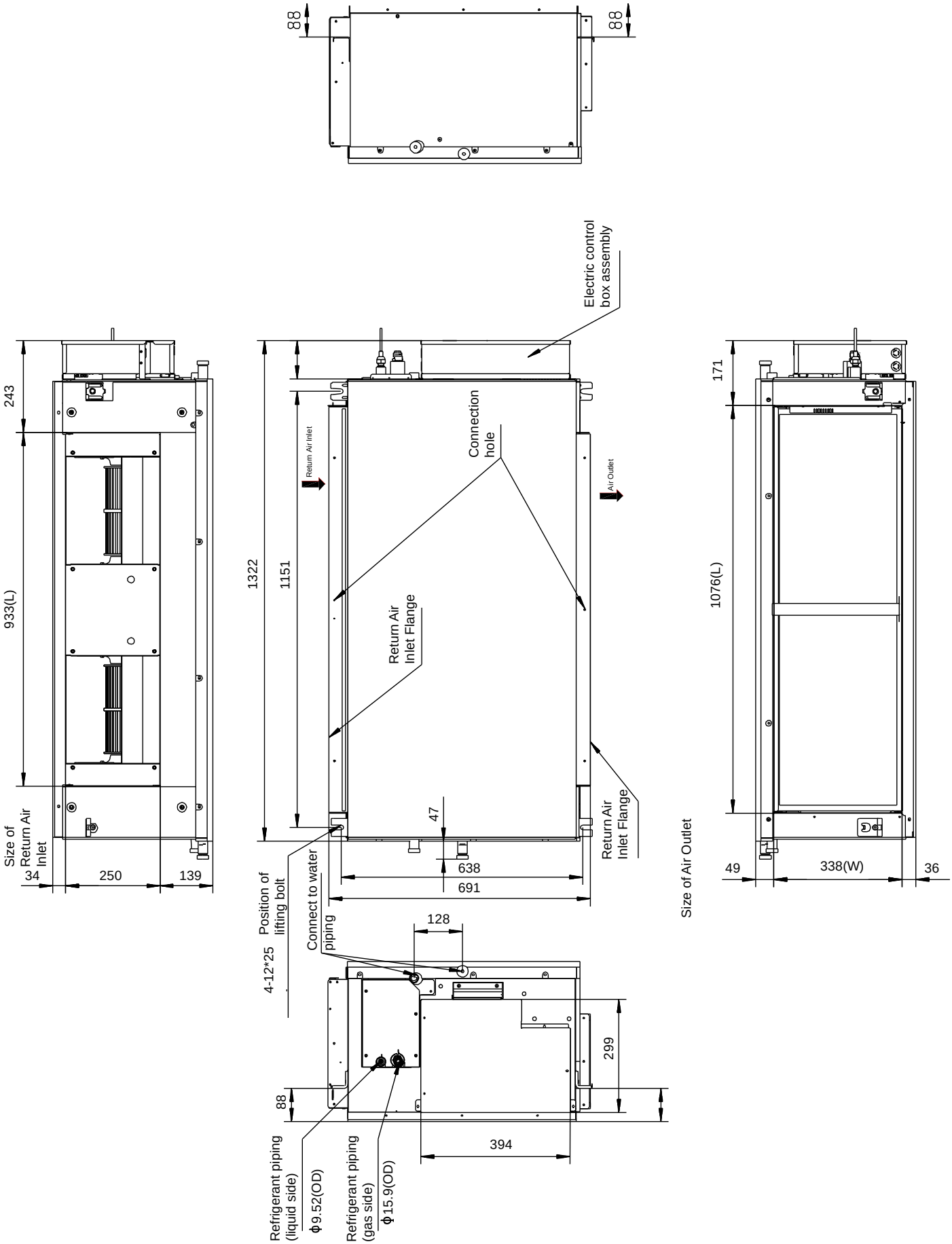


Figure 2.3: 20.0-28.0.0kW High Static Pressure Duct dimensions (unit: mm)

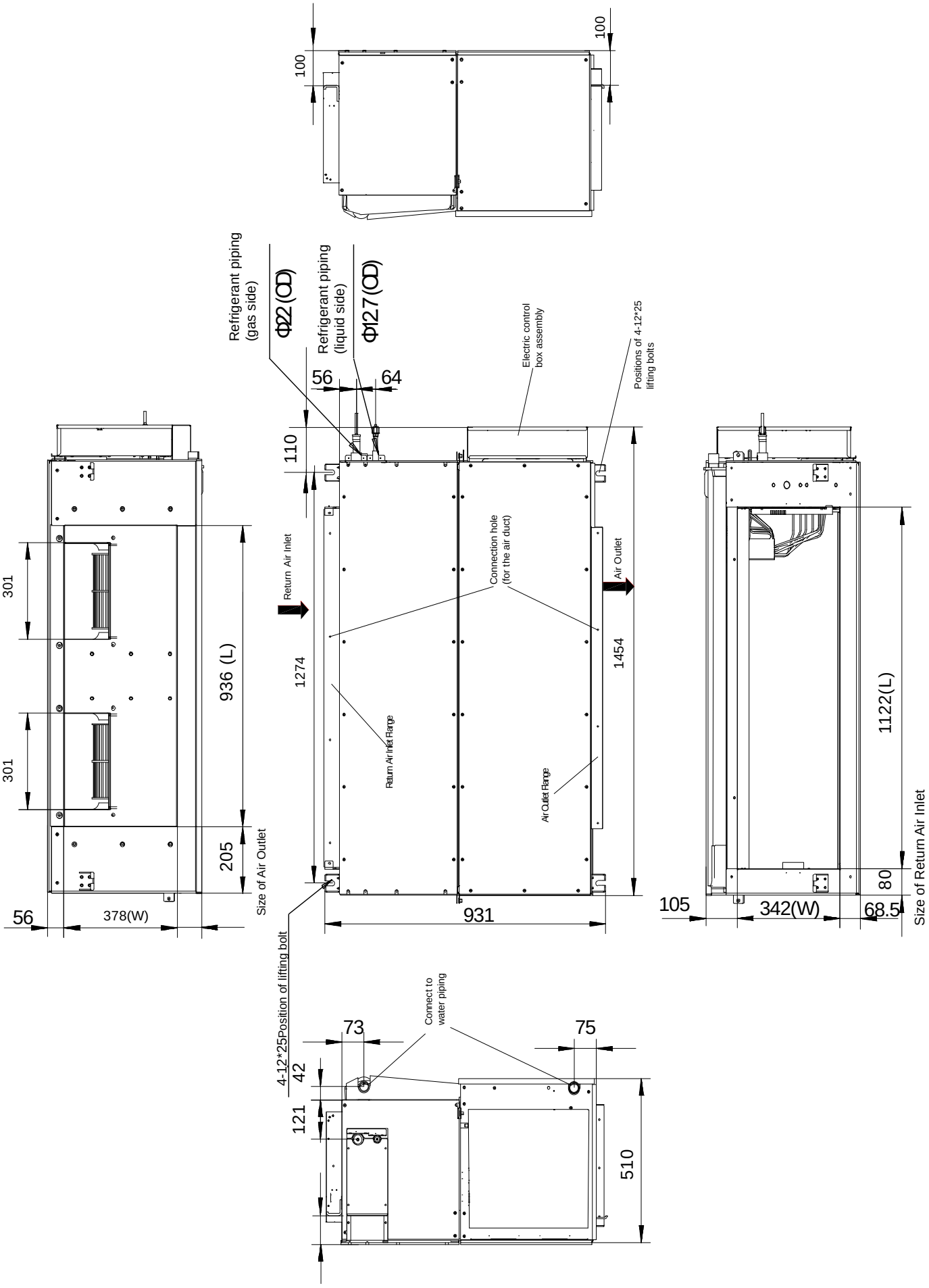


Figure 2.4: 40.0-56.0kW High Static Pressure Duct dimensions (unit: mm)

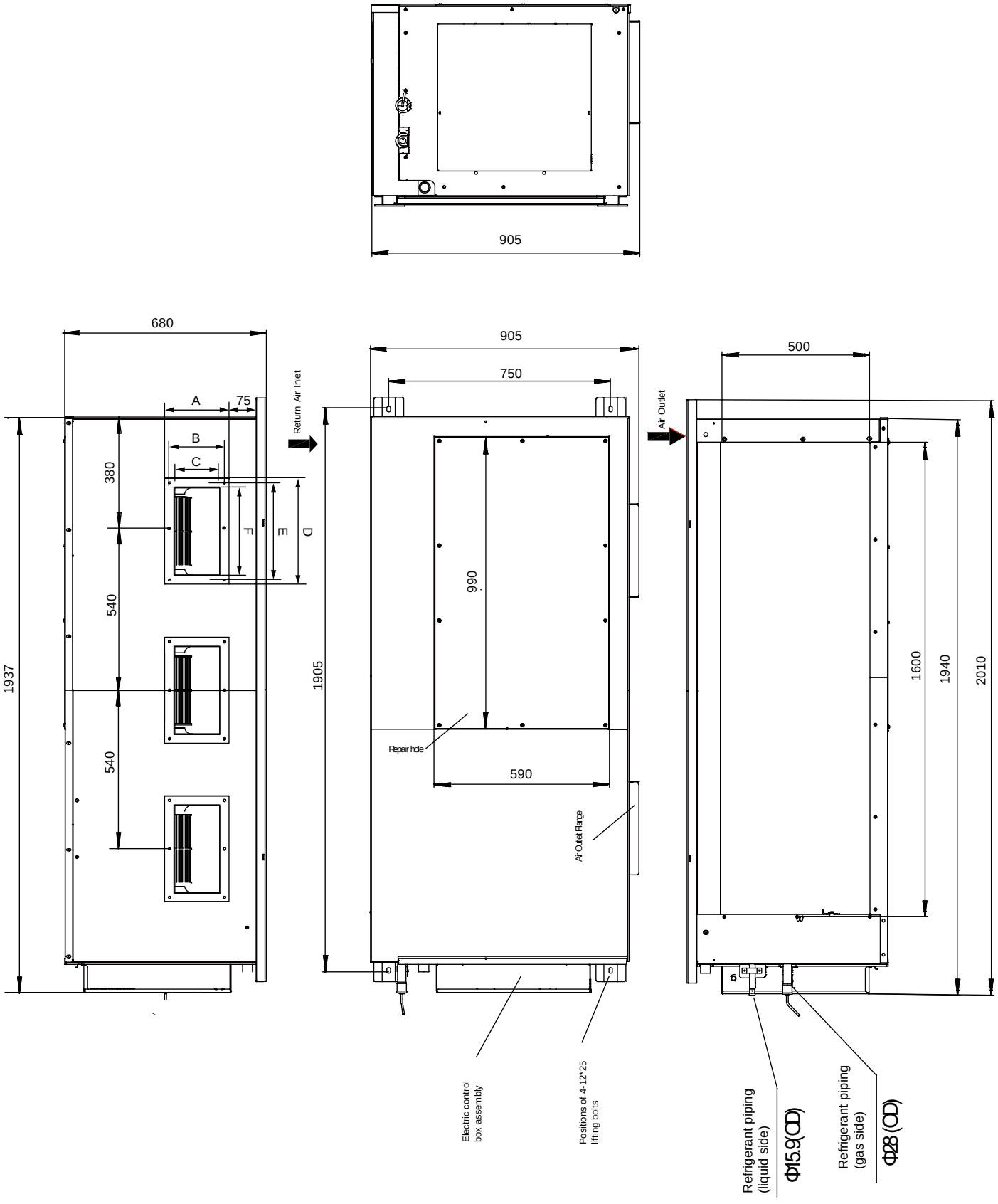


Table 2.1: 40.0-56.0kW High Static Pressure Duct dimensions (unit: mm)

Model names	Dimensions (mm)					
	A	B	C	D	E	F
MDV-D400(450)T1/N1(B)	210	160	150	360	330	300
MDV-D560T1/N1(B)	247	217	187	394	364	334

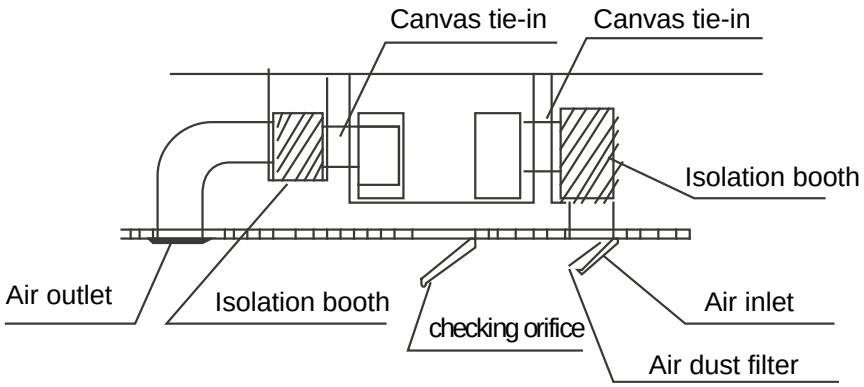
3 Unit Placement

3.1 Placement Considerations

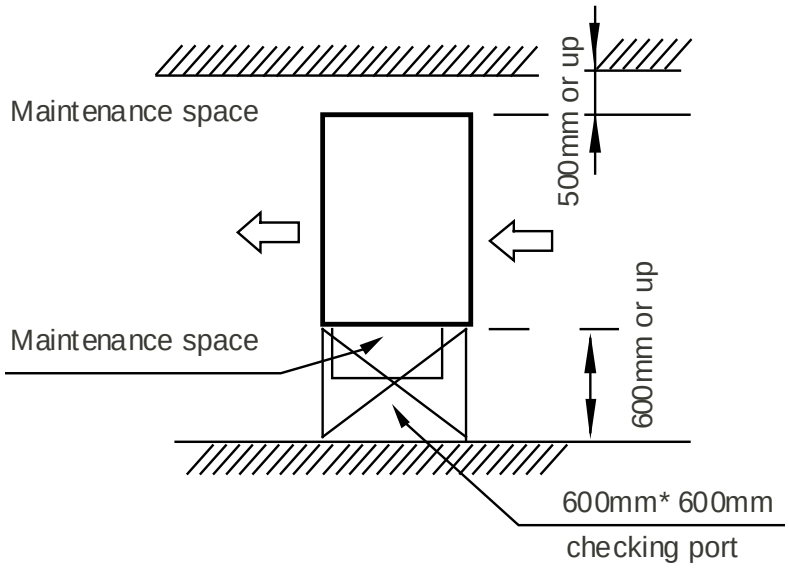
- Unit placement should take account of the following considerations:
  - Ensure the needed spaces for installation and maintenance.
  - The ceiling is horizontal, and its structure can endure the weight of the indoor unit.
  - The outlet and the inlet are not impeded, and the influence of external air is the least.
  - 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.

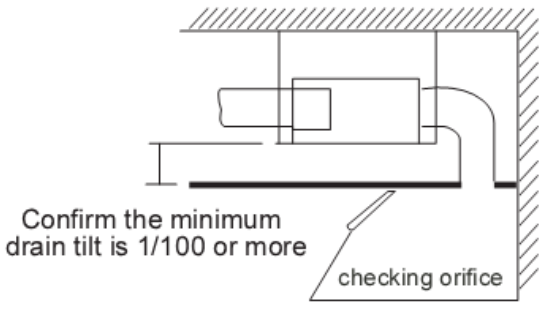
3.2 Space Requirements

- Below is the recommended duct installation method:



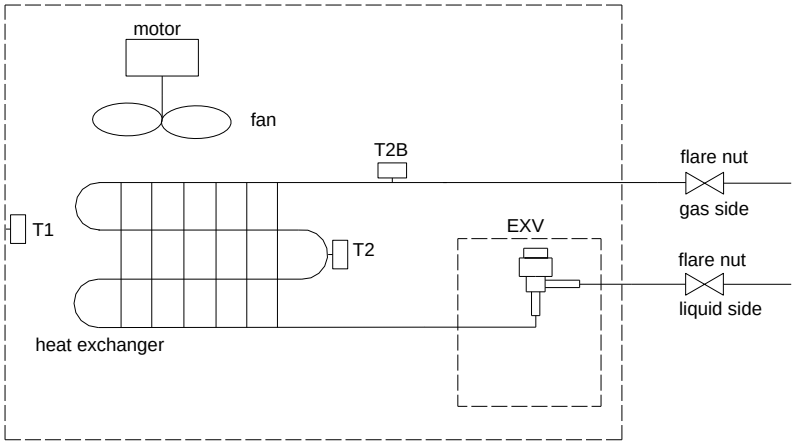
- Keep min. 600*600 space for checking &maintenance:





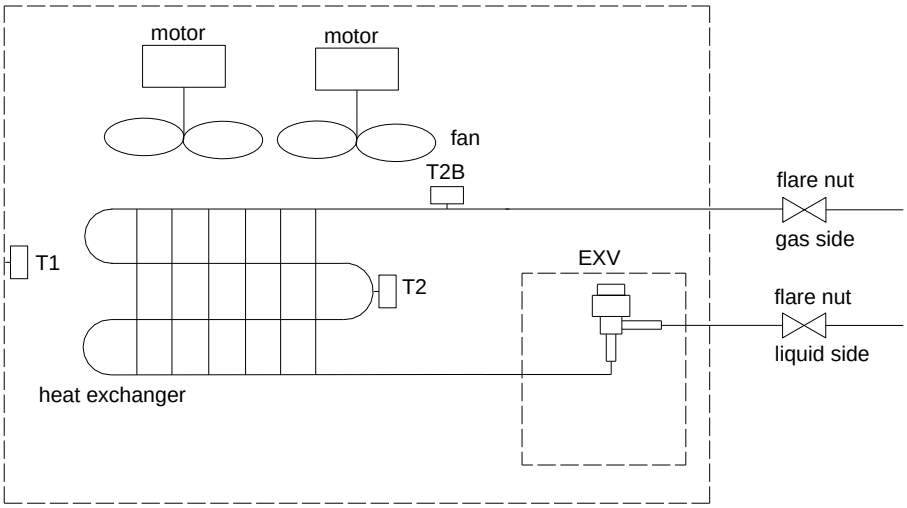
4 Piping Diagram

Figure 4.1: 7.1-16.0kW High Static Pressure Duct piping diagram



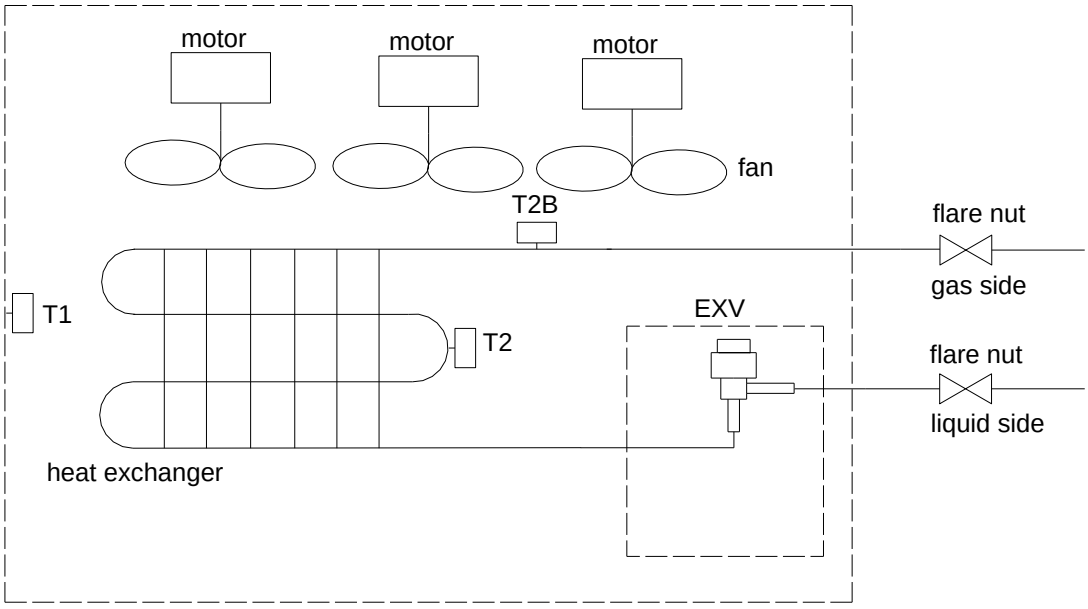
Legend	
T1	Indoor ambient temperature sensor
T2	Indoor heat exchanger mid-point temperature sensor
T2B	Indoor heat exchanger outlet temperature sensor

Figure 4.2: 20.0-28.0kW High 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

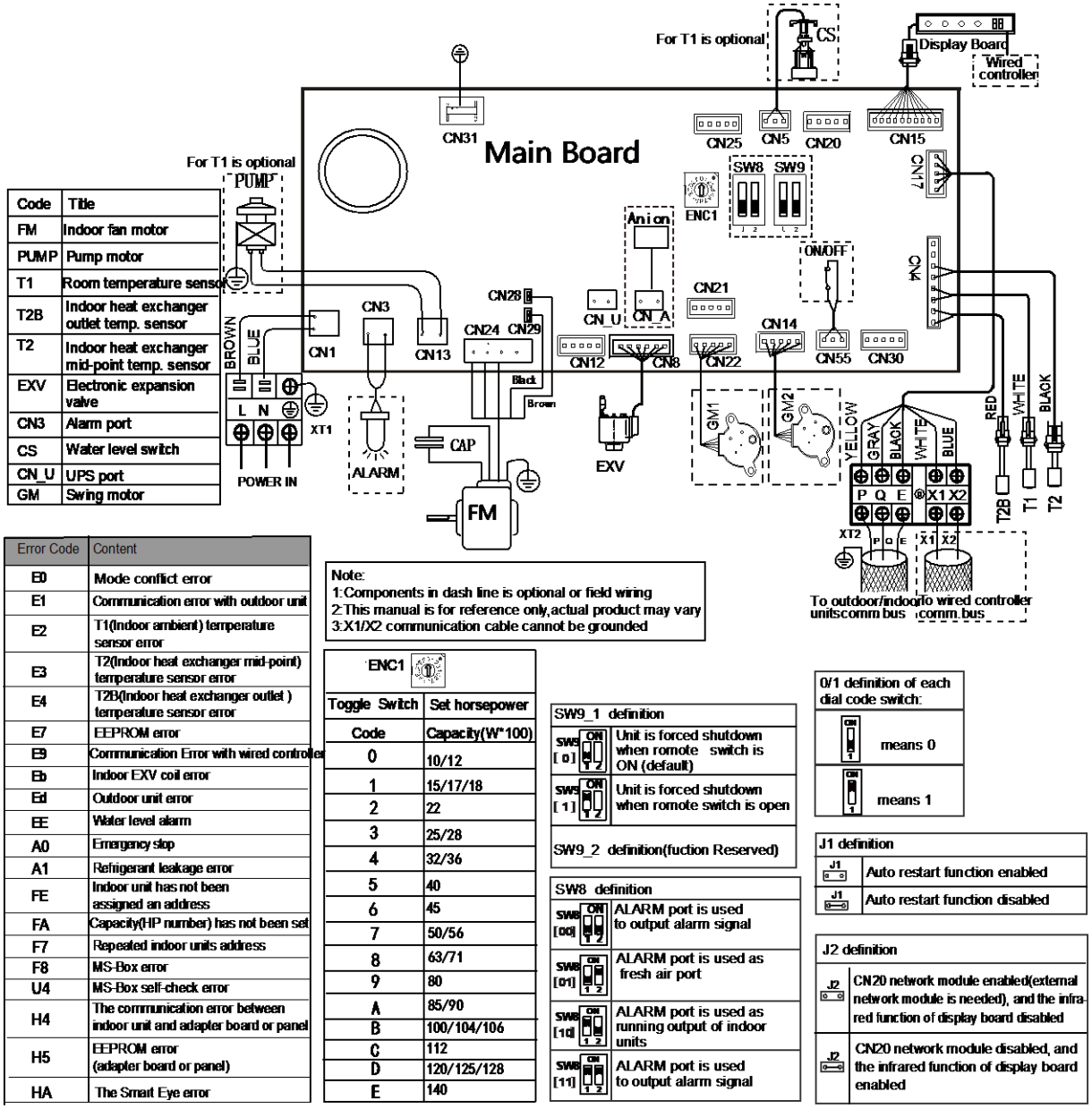
Figure 4.2: 40.0-56.0kW High Static Pressure Duct piping diagram



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: MDV-D71T1/N1-B(B), MDV-D80T1/N1-B(B), MDV-D90T1/N1-B(B), MDV-D112T1/N1-B(B)



Code	Title
FM	Indoor fan motor
PUMP	Pump motor
T1	Room temperature sensor
T2B	Indoor heat exchanger outlet temp. sensor
T2	Indoor heat exchanger mid-point temp. sensor
EXV	Electronic expansion valve
CN3	Alarm port
CS	Water level switch
CN_U	UPS port
GM	Swing motor

Error Code	Content
E0	Mode conflict error
E1	Communication error with outdoor unit
E2	T1(Indoor ambient) temperature sensor error
E3	T2(Indoor heat exchanger mid-point) temperature sensor error
E4	T2B(Indoor heat exchanger outlet) temperature sensor error
E7	EEPROM error
E9	Communication Error with wired controller
Eb	Indoor EXV coil error
Ed	Outdoor unit error
EE	Water level alarm
A0	Emergency stop
A1	Refrigerant leakage error
FE	Indoor unit has not been assigned an address
FA	Capacity(HP number) has not been set
F7	Repeated indoor units address
F8	MS-Box error
U4	MS-Box self-check error
H4	The communication error between indoor unit and adapter board or panel
H5	EEPROM error (adapter board or panel)
HA	The Smart Eye error

Note:
1:Components in dash line is optional or field wiring
2:This manual is for reference only,actual product may vary
3:X1/X2 communication cable cannot be grounded

ENC1

Toggle Switch Code	Set horsepower Capacity(W*100)
0	10/12
1	15/17/18
2	22
3	25/28
4	32/36
5	40
6	45
7	50/56
8	63/71
9	80
A	85/90
B	100/104/106
C	112
D	120/125/128
E	140

SW9_1 definition	
SW9 [0]	Unit is forced shutdown when romote switch is ON (default)
SW9 [1]	Unit is forced shutdown when romote switch is open
SW9_2 definition(fuction Reserved)	

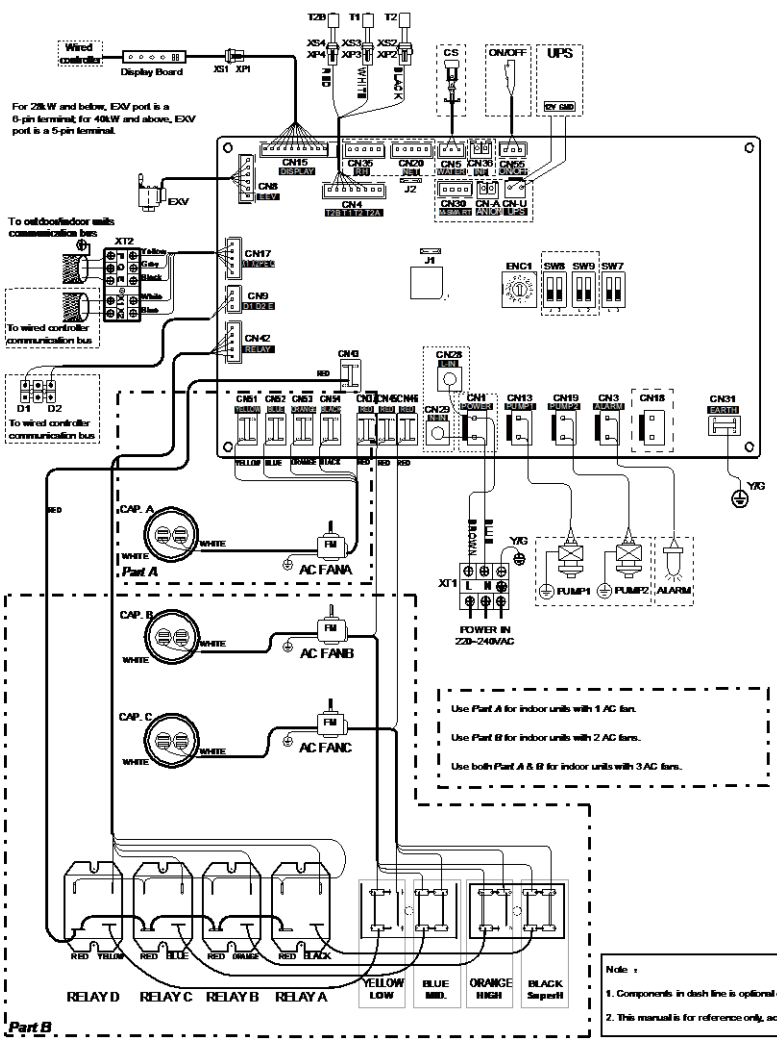
SW8 definition	
SW8 [00]	ALARM port is used to output alarm signal
SW8 [01]	ALARM port is used as fresh air port
SW8 [10]	ALARM port is used as running output of indoor units
SW8 [11]	ALARM port is used to output alarm signal

0/1 definition of each dial code switch:	
	means 0
	means 1

J1 definition	
J1	Auto restart function enabled
J1	Auto restart function disabled

J2 definition	
J2	CN20 network module enabled(external network module is needed), and the infra-red function of display board disabled
J2	CN20 network module disabled, and the infrared function of display board enabled

Figure 5.2: MDV-D140T1/N1-B(B), MDV-D160T1/N1-B(B), MDV-D200T1/N1-B(B), MDV-D250T1/N1-B(B), MDV-D280T1/N1-B(B), MDV-D400T1/N1(B), MDV-D450T1/N1(B), MDV-D560T1/N1(B)



Note：

1. Components in dash line is optional or field wiring.
2. This manual is for reference only, actual product may vary

ENC1 + SW7 [0]	
Toggle Switch	Set Horsepower (×100(W))
Code	Capacity
E	140
F	150/155/160

ENC1 + SW7 [1]	
Toggle Switch	Set Horsepower (×100(W))
Code	Capacity
0	180
1	200
2	224/250/252
3	280
4	335
5	400
6	450
7	500/560/580

Code	Title
FM	Indoor fan motor
PUMP	Pump motor
T1	Indoor ambient temperature sensor
T2	Indoor heat exchanger mid-point temperature sensor
T2B	Indoor heat exchanger outlet temperature sensor
EXV	Electronic expansion valve
CAP.	Capacitors
XT1-2	Terminals
XP1-4 XS1-4	Connectors
ON/OFF	Remote on/off switch
CS	Water level switch
UPS	Uninterruptible Power Supply

Error Content	Error Code
The indoor unit has not been assigned an address	FE
Mode conflict error	E0
Communication error with outdoor unit	E1
T1(Indoor ambient) temperature sensor error	E2
T2(Indoor heat exchanger mid-point) temperature sensor error	E3
T2B(Indoor heat exchanger outlet) temperature sensor error	E4
EEPROM error	E7
Communication error with wired controller	E9
Outdoor unit error	Ed
Indoor EXV coil error	Eb
Communication error between indoor unit and adapter board or panel	H4
EEPROM error(adapter board or panel)	H5
Smart Eye error	HA
Repeated indoor unit address	F7
MS-Box error	F8
MS-Box self-check error	U4
Refrigerant leakage error	A1
Emergency stop	A0
Water level alarm	EE
Capacity(HP number) has not been set	FA

Factory code	100259000019442
Date	2020.07.21
Revision	A

0/1 definition of each dial code switch:

ON 1 2 means 0 ON 1 2 means 1

SW7_1: Reserved

SW7_2 definition

SW7-2 [0]: Unit with capacity less than 15kW

SW7-2 [1]: Unit with capacity equal or more than 15kW

SW8 definition (function reserved)

SW8-1 [0]: Alarm port is used to output alarm signal(default)

SW8-1 [01]: Alarm port is used as fresh air port

SW8-1 [10]: Alarm port is used as running output of indoor units

SW8-1 [11]: Alarm port is used to output alarm signal

SW9_1 definition (function reserved)

SW9-1 [0]: Unit is forced to shut down when remote switch is ON(default)

SW9-1 [1]: Unit is forced to shut down when remote switch is OFF

SW9_2: Reserved

J1 definition

J1: Auto restart function enabled(default)

J1: Auto restart function disabled

J2 definition

J2: CN20 network module enabled (external network module is needed), and the infrared function of display board disabled

J2: CN20 network module disabled, and the infrared function of display board enabled(default)

6 Fan Performance

Table 6.1: MDV-D71(80)T1/N1-B(B) fan performance diagram

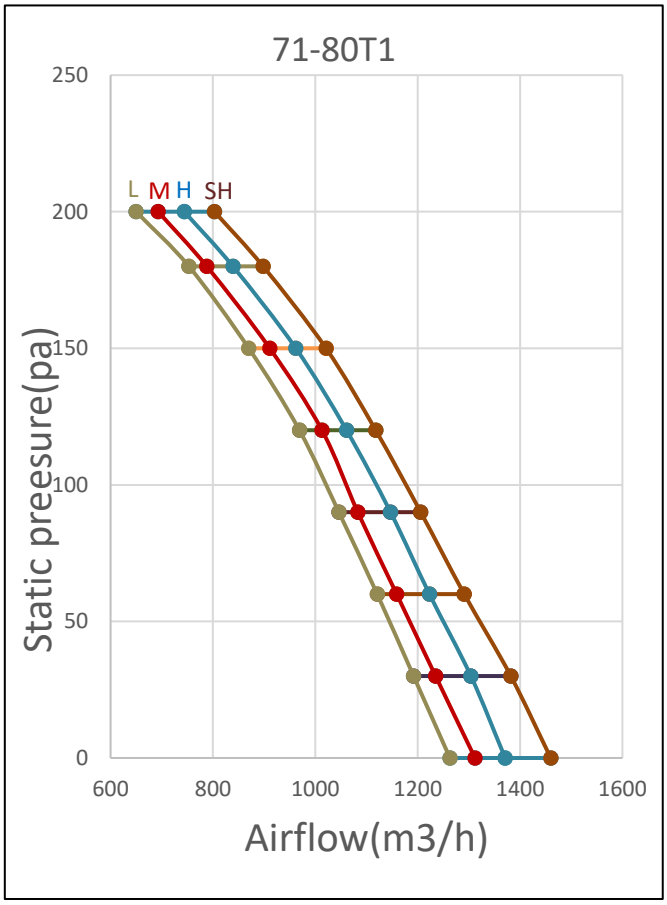


Table 6.2: MDV-D90T1/N1-B(B) fan performance diagram

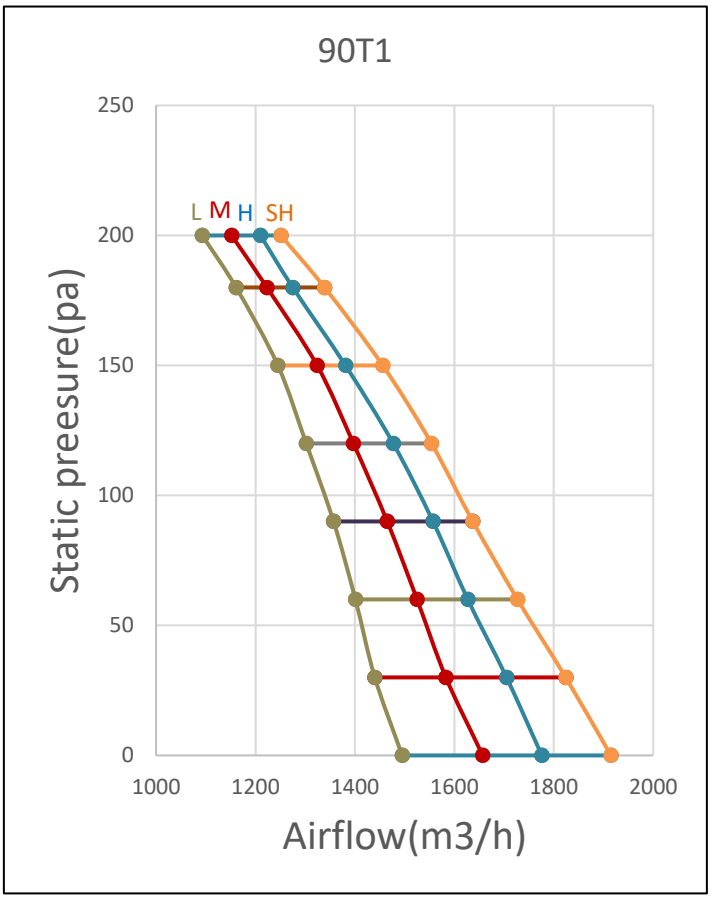


Table 6.3: MDV-D112T1/N1-B(B) fan performance diagram

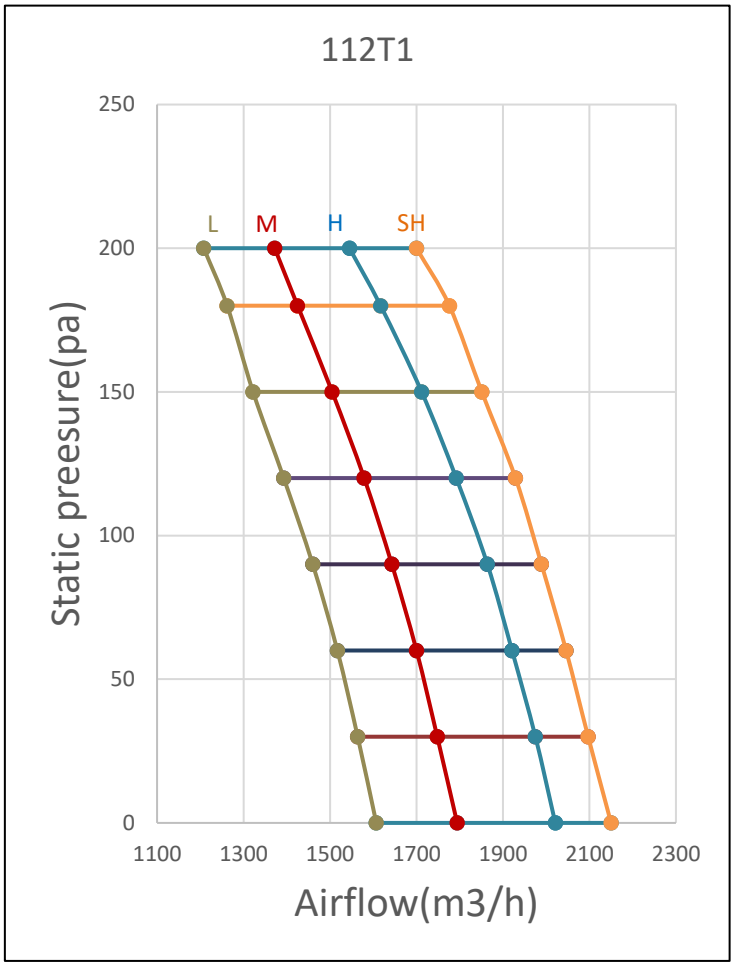


Table 6.4: MDV-D140T1/N1-B(B) fan performance diagram

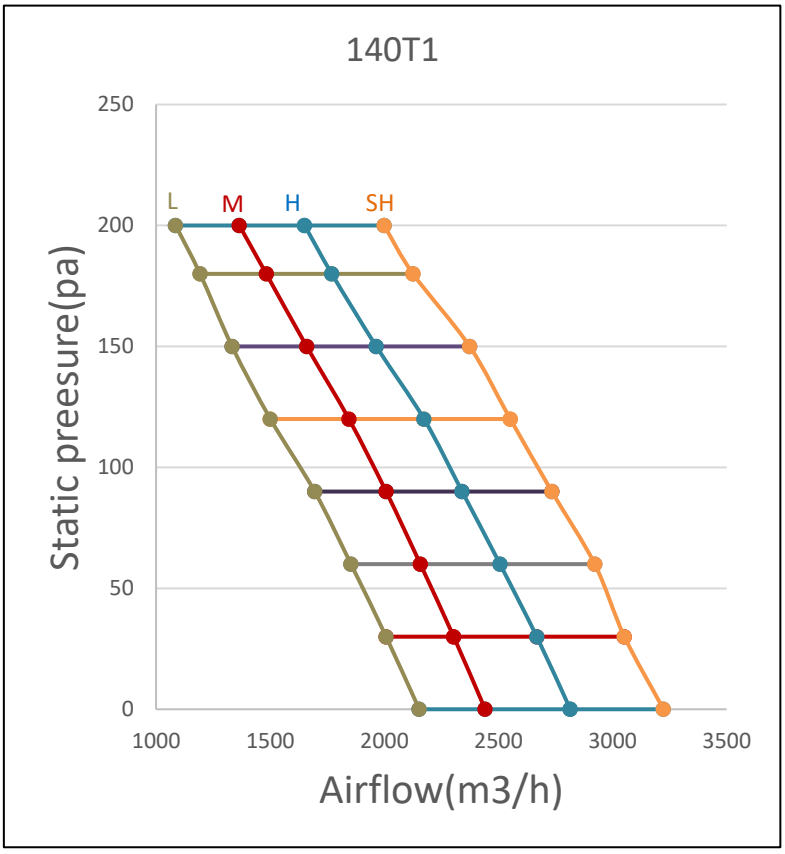


Table 6.5: MDV-D160T1/N1-B(B) fan performance diagram

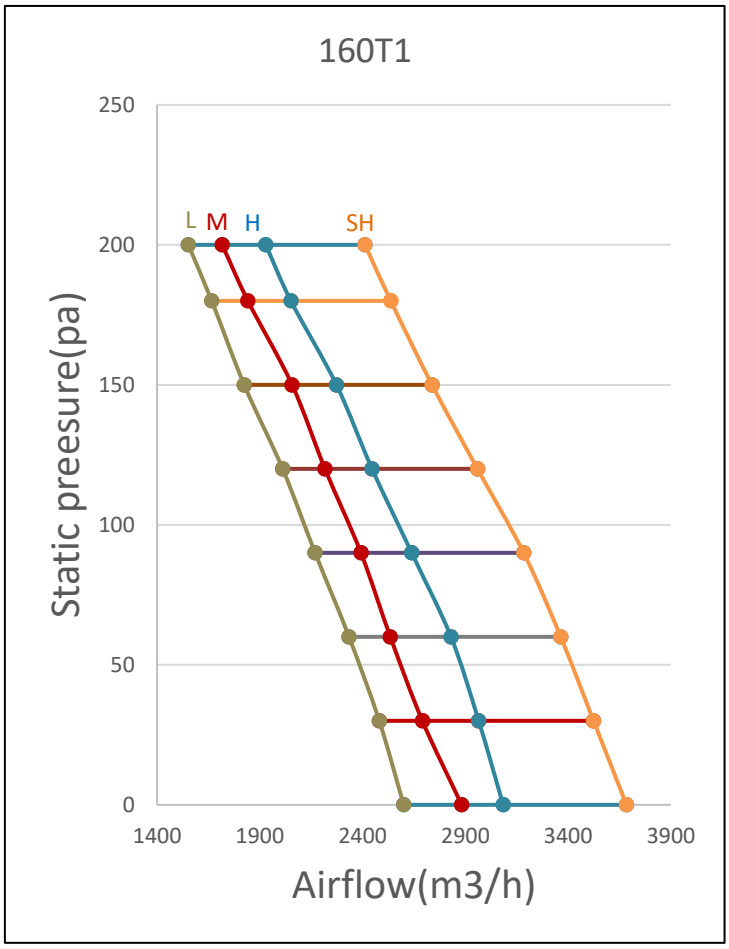


Table 6.5: MDV-D200(250,280)T1/N1-B(B) fan performance diagram

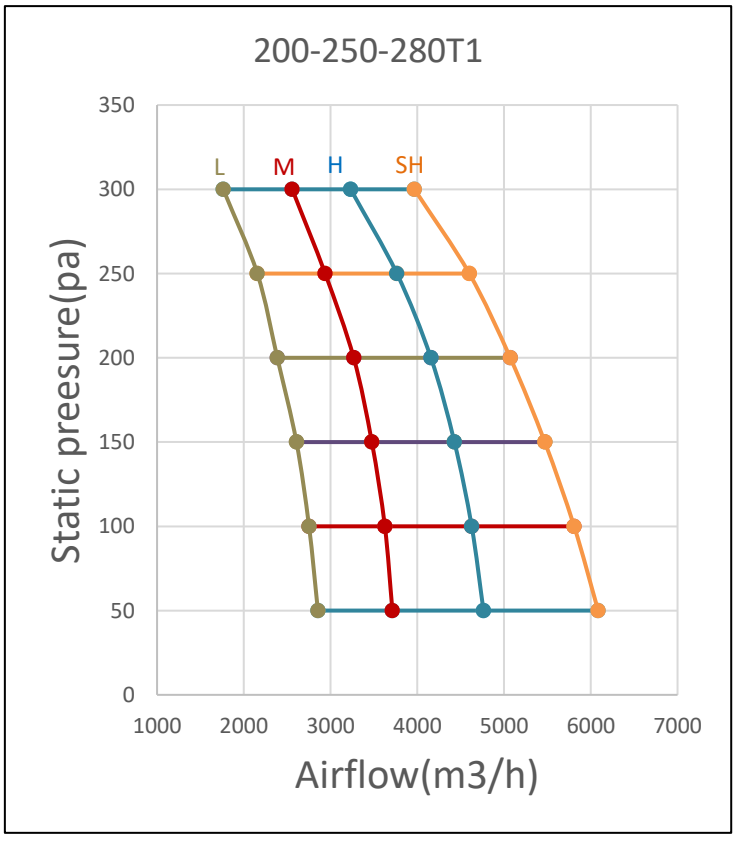


Table 6.6: MDV-D400(450)T1/N1(B) fan performance diagram

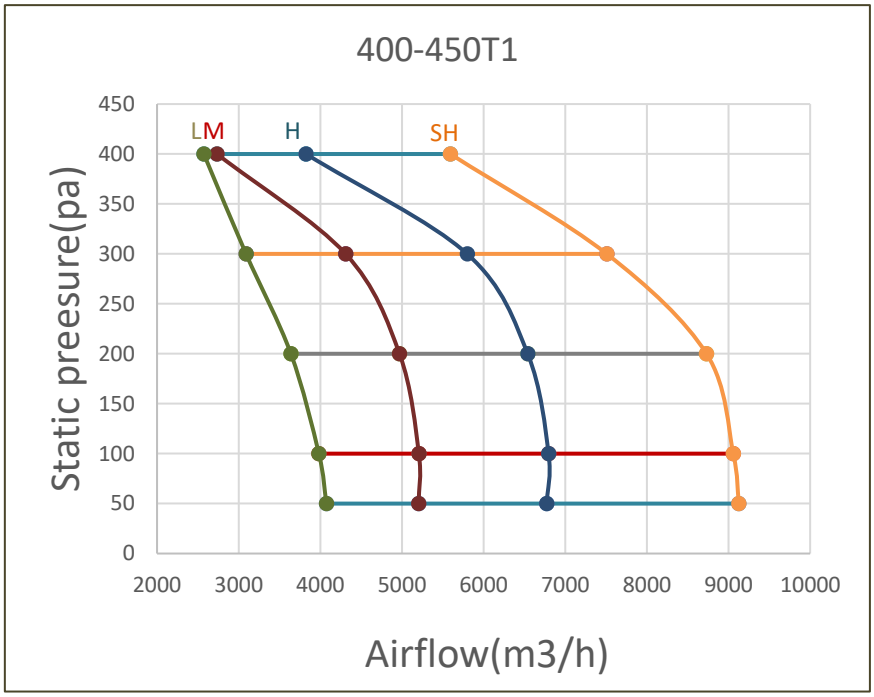
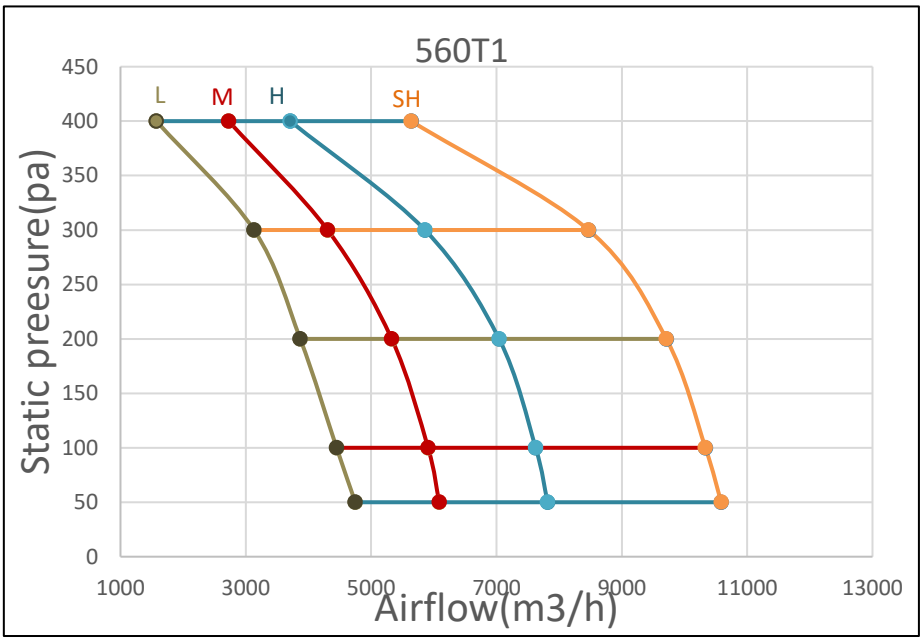


Table 6.7: MDV-D560T1/N1(B) fan performance diagram



7 Capacity Tables

7.1 Cooling Capacity Table

Table 7.1: High 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-D71T1/N1-B(B)	6.3	6.3	6.7	6.3	7.0	6.2	7.1	6.0	7.2	5.8	7.4	5.5	7.6	5.2
MDV-D80T1/N1-B(B)	7.1	7.1	7.6	7.1	7.9	7.0	8.0	6.7	8.1	6.5	8.3	6.1	8.5	5.8
MDV-D90T1/N1-B(B)	8.0	7.9	8.5	7.8	8.9	7.7	9.0	7.5	9.1	7.2	9.4	6.9	9.6	6.6
MDV-D112T1/N1-B(B)	9.9	9.8	10.6	9.8	11.1	9.7	11.2	9.3	11.3	9.0	11.6	8.5	11.9	8.1
MDV-D140T1/N1-B(B)	12.4	11.9	13.2	11.9	13.8	11.8	14.0	11.4	14.2	11.1	14.5	10.5	14.9	10.1
MDV-D160T1/N1-B(B)	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
MDV-D200T1/N1-B(B)	17.7	17.0	18.9	17.0	19.8	16.9	20.0	16.3	20.2	15.8	20.8	15.1	21.2	14.4
MDV-D250T1/N1-B(B)	22.1	21.2	23.6	21.2	24.7	21.1	25.0	20.4	25.3	19.8	25.9	18.8	26.5	18.0
MDV-D280T1/N1-B(B)	24.8	23.8	26.4	23.8	27.6	23.5	28.0	22.8	28.3	22.1	29.0	21.0	29.7	20.1
MDV-D400T1/N1(B)	35.4	33.8	37.7	33.8	39.5	33.6	40.0	32.5	40.4	31.5	41.5	30.0	42.4	28.7
MDV-D450T1/N1(B)	39.8	38.0	42.4	38.1	44.4	37.8	45.0	36.6	45.4	35.4	46.6	33.7	47.6	32.2
MDV-D560T1/N1(B)	49.5	47.9	52.8	47.9	55.2	47.4	56.0	45.8	56.5	44.3	58.0	42.1	59.3	40.8

Abbreviations:
TC: Total capacity (kW)
SC: Sensible capacity(kW)
Notes:
1. Shaded cells indicate rating condition.

7.2 Heating Capacity Table

Table 7.2: High Static Pressure Duct heating capacity

Model	Indoor air temperature (°C DB)					
	16	18	20	21	22	24
	TC	TC	TC	TC	TC	TC
MDV-D71T1/N1-B(B)	8.5	8.4	8.0	7.8	7.5	7.0
MDV-D80T1/N1-B(B)	9.5	9.5	9.0	8.7	8.5	7.8
MDV-D90T1/N1-B(B)	10.6	10.5	10.0	9.7	9.4	8.8
MDV-D112T1/N1-B(B)	13.3	13.1	12.5	12.1	11.8	10.9
MDV-D140T1/N1-B(B)	17.0	16.8	16.0	15.5	15.0	13.9
MDV-D160T1/N1-B(B)	18.0	17.9	17.0	16.5	16.0	14.8
MDV-D200T1/N1-B(B)	23.9	23.6	22.5	21.8	21.2	19.6
MDV-D250T1/N1-B(B)	27.6	27.3	26.0	25.2	24.4	22.6
MDV-D280T1/N1-B(B)	33.4	33.1	31.5	30.6	29.6	27.4
MDV-D400T1/N1(B)	47.7	47.3	45.0	43.7	42.3	39.2
MDV-D450T1/N1(B)	53.0	52.5	50.0	48.5	47.0	43.5
MDV-D560T1/N1(B)	66.8	66.2	63.0	61.1	59.2	54.8

Abbreviations:
TC: Total capacity (kW)
Notes:
1. Shaded cells indicate rating condition.

8 Electrical Characteristics

Table 8.1: High 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-D71T1/N1-B(B)	50	220-240	198	264	1.3	15	0.10	1.0
MDV-D80T1/N1-B(B)	50	220-240	198	264	1.3	15	0.10	1.0
MDV-D90T1/N1-B(B)	50	220-240	198	264	1.9	15	0.16	1.5
MDV-D112T1/N1-B(B)	50	220-240	198	264	2.3	15	0.20	1.8
MDV-D140T1/N1-B(B)	50	220-240	198	264	2.9	15	0.30	2.3
MDV-D160T1/N1-B(B)	50	220-240	198	264	4.8	15	0.40	3.8
MDV-D200T1/N1-B(B)	50	220-240	198	264	8.6	15	1.10	6.9
MDV-D250T1/N1-B(B)	50	220-240	198	264	8.6	15	1.10	6.9
MDV-D280T1/N1-B(B)	50	220-240	198	264	8.6	15	1.10	6.9
MDV-D400T1/N1(B)	50	220-240	198	264	12.5	30	1.65	10.0
MDV-D450T1/N1(B)	50	220-240	198	264	12.5	30	1.65	10.0
MDV-D560T1/N1(B)	50	220-240	198	264	15.5	30	1.65	12.4

Abbreviations:
MCA: Minimum Circuit Amps
MFA: Maximum Fuse Amps
FLA: Full Load Amps

9 Sound Levels

9.1 Overall

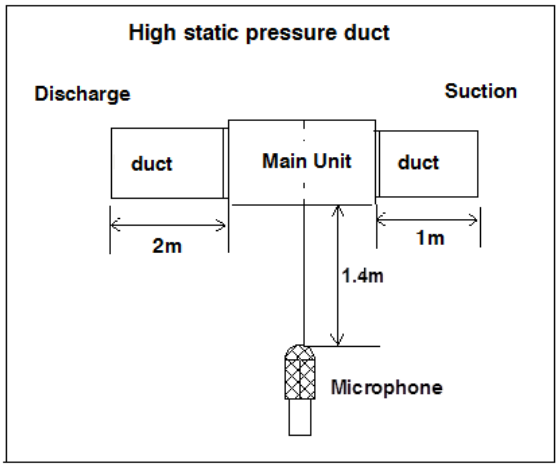
Table 9.1: High Static Pressure Duct sound pressure levels[1]

Model name	Sound pressure levels dB(A)			
	SH	H	M	L
MDV-D71T1/N1-B(B)	48	46	44	43
MDV-D80T1/N1-B(B)	48	46	45	43
MDV-D90T1/N1-B(B)	52	49	47	45
MDV-D112T1/N1-B(B)	52	49	47	46
MDV-D140T1/N1-B(B)	53	50	48	46
MDV-D160T1/N1-B(B)	54	52	50	48
MDV-D200T1/N1-B(B)	57	56	52	47
MDV-D250T1/N1-B(B)	57	56	52	47
MDV-D280T1/N1-B(B)	57	56	52	47
MDV-D400T1/N1(B)	60	58	54	49
MDV-D450T1/N1(B)	60	58	54	49
MDV-D560T1/N1(B)	61	56	51	46

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 8.1: sound pressure level measurement



9.2 Octave Band Levels

Figure 9.2: MDV-D71(80)T1/N1-B(B) octave band levels

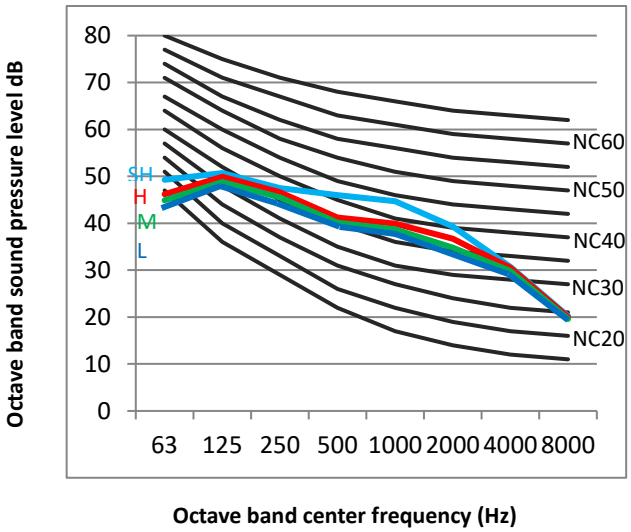


Figure 9.3: MDV-D90(112)T1/N1-B(B) octave band levels

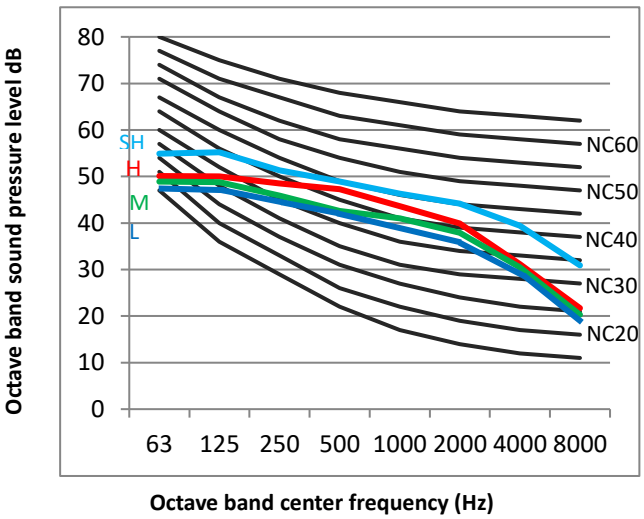


Figure 9.4: MDV-D140T1/N1-B(B) octave band levels

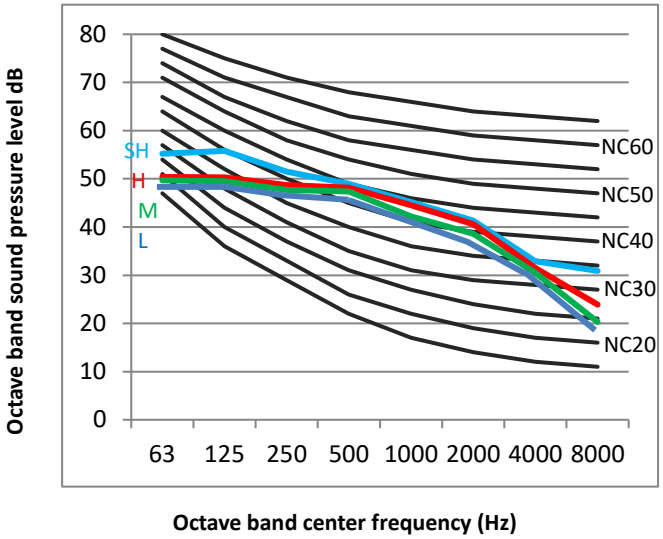


Figure 9.5: MDV-D160T1/N1-B(B) octave band levels

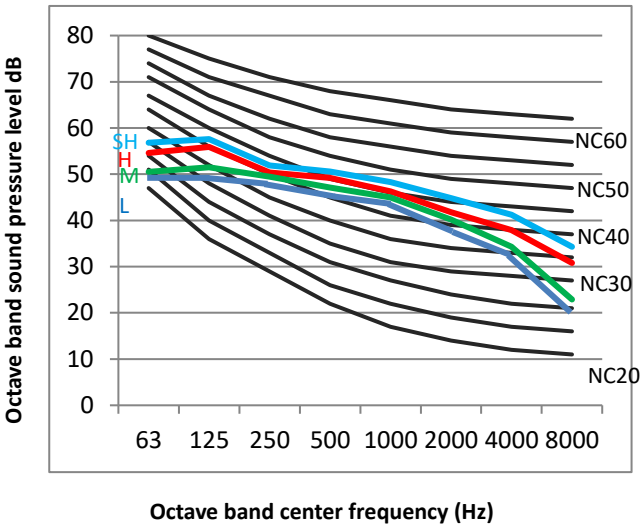


Figure 9.6: MDV-D200(250,280)T1/N1-B(B) octave band levels

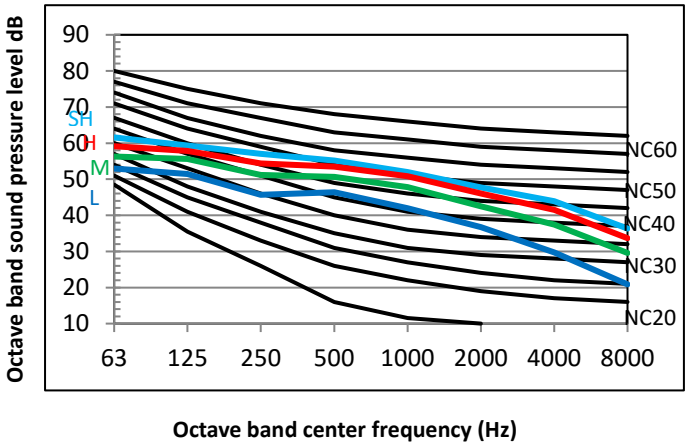


Figure 9.7: MDV-D400(450)T1/N1(B) octave band levels

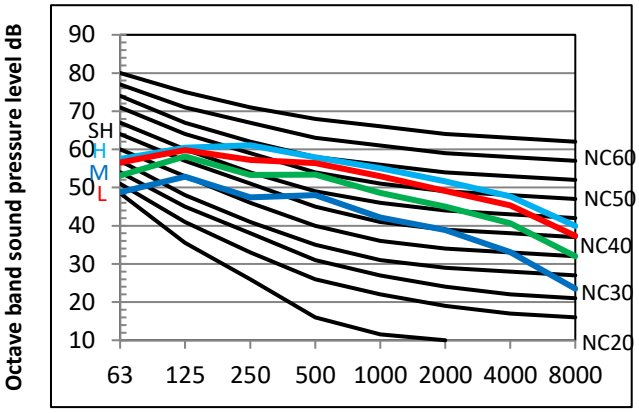
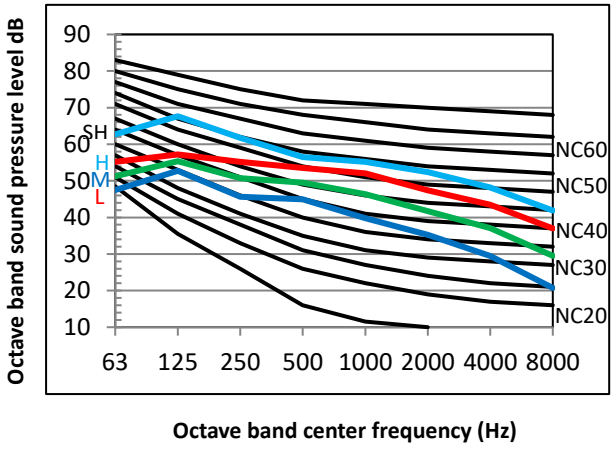


Figure 9.8: MDV-D560T1/N1(B) octave band levels



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