

Engineering Data

Four-way Cassette VRF IDU

Atom Series



MDV-D09Q4/VN1-E(At)

MDV-D32Q4/VN1-E(At)

MDV-D12Q4/VN1-E(At)

MDV-D36Q4/VN1-E(At)

MDV-D15Q4/VN1-E(At)

MDV-D40Q4/VN1-E(At)

MDV-D18Q4/VN1-E(At)

MDV-D48Q4/VN1-E(At)

MDV-D24Q4/VN1-E(At)

MDV-D56Q4/HN1-E(At)

MDV-D28Q4/VN1-E(At)

Four-way Cassette

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Atom Series VRF Indoor Units



1 Specifications

MDV-D09Q4/VN1-E(At) / MDV-D12Q4/VN1-E(At) / MDV-D15Q4/VN1-E(At)

Table 1.1: MDV-D09(12, 15)Q4/VN1-E(At) specifications

Model			MDV-D09Q4/VN1-E(At)	MDV-D12Q4/VN1-E(At)	MDV-D15Q4/VN1-E(At)
Power supply			1 phase, 220-240V, 60Hz		
Cooling ¹	Capacity	kBtu/h	9	12	15
	Input	W	80	80	88
Heating ²	Capacity	kBtu/h	10	13	17
	Input	W	80	80	88
Indoor fan motor	Type		AC		
	Quantity		1		
Indoor coil	Number of rows		1	1	2
	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		
	Diameter & type	in.(mm)	9/32(Φ7), inner-groove tube		
	Dimensions (L×H×W)	in.(mm)	80-1/16×6-5/8×17/32(2033×168×13.37)		80-3/4×6-5/8×1-3/64(2051×168×26.74)
	Number of circuits		4		8
Indoor air flow (H/M/L)		m ³ /h	791/674/596		942/777/662
		CFM	465/396/351		554/457/389
Sound pressure level (H/M/L) ³		dB(A)	30/25/22		35/31/27
Indoor unit	Dimensions ⁴ (W×H×D)	in.(mm)	33-1/16×9-1/16×33-1/16(840×230×840)		
	Packing (W×H×D)	in.(mm)	37-19/32×10-1/4×37-19/32(955×260×955)		
	Net/Gross weight	lbs(kg)	47.3/58.7(21.5/26.7)		52.1/63.6(23.7/28.9)
Panel	Dimensions (W×H×D)	in.(mm)	37-13/32×2-9/64×37-13/32(950×50×950)		
	Packing(W×H×D)	in.(mm)	40-3/4×3-9/16×40-3/4(1035×89×1035)		
	Net/Gross weight	lbs(kg)	12.8/17.4(5.8/7.9)		
Refrigerant type			R410A		
Pipe connections	Liquid pipe	in.(mm)	Φ 1/4 (6.35)		
	Gas pipe	in.(mm)	Φ 1/2 (12.7)		
	Drain pipe	in.(mm)	OD 1-17/64 (Φ32)		

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.
- Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
- Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

MDV-D18Q4/VN1-E(At) / MDV-D24Q4/VN1-E(At) / MDV-D28Q4/VN1-E(At)

Table 1.2: MDV-D18(24, 28)Q4/VN1-E(At) specifications

Model			MDV-D18Q4/VN1-E(At)	MDV-D24Q4/VN1-E(At)	MDV-D28Q4/VN1-E(At)
Power supply			1 phase, 220-240V, 60Hz		
Cooling ¹	Capacity	kBtu/h	19	24	27
	Input	W	88	105	120
Heating ²	Capacity	kBtu/h	21	27	30
	Input	W	88	105	120
Indoor fan motor	Type		AC		
	Quantity		1		
Indoor coil	Number of rows		2		
	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		
	Diameter & type	in.(mm)	9/32(Φ7), inner-groove tube		
	Dimensions (L×H×W)	in.(mm)	80-3/4×6-5/8×1-3/64(2051×168×26.74)		
	Number of circuits		8		
Indoor air flow (H/M/L)		m ³ /h	942/777/662	1235/1013/805	1235/1013/805
		CFM	554/457/389	726/596/474	726/596/474
Sound pressure level (H/M/L) ³		dB(A)	35/31/27	43/37/31	43/37/31
Indoor unit	Dimensions ⁴ (W×H×D)	in.(mm)	33-1/16×9-1/16×33-1/16(840×230×840)		
	Packing (W×H×D)	in.(mm)	37-19/32×10-1/4×37-19/32(955×260×955)		
	Net/Gross weight	lbs(kg)	52.1/63.6(23.7/28.9)		
Panel	Dimensions (W×H×D)	in.(mm)	37-13/32×2-9/64×37-13/32(950×50×950)		
	Packing (W×H×D)	in.(mm)	40-3/4×3-9/16×40-3/4(1035×89×1035)		
	Net/Gross weight	lbs(kg)	12.8/17.4(5.8/7.9)		
Refrigerant type			R410A		
Pipe connections	Liquid pipe	in.(mm)	Φ 3/8 (9.53)		
	Gas pipe	in.(mm)	Φ 5/8 (15.9)		
	Drain pipe	in.(mm)	OD 1-17/64 (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. Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
4. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

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MDV-D32Q4/VN1-E(At) / MDV-D36Q4/VN1-E(At)

Table 1.3: MDV-D32(36)Q4/VN1-E(At) specifications

Model			MDV-D32Q4/VN1-E(At)	MDV-D36Q4/VN1-E(At)
Power supply			1 phase, 220-240V, 60Hz	
Cooling ¹	Capacity	kBtu/h	30	34
	Input	W	187	200
Heating ²	Capacity	kBtu/h	34	37
	Input	W	187	200
Indoor fan motor	Type		AC motor	
	Number		1	
Indoor coil	Number of rows		2	2
	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	
	Diameter & type	in.(mm)	9/32(Φ7), inner-groove tube	
	Dimensions (L×H×W)	in.(mm)	2051×252×26.74	
	Number of circuits		8	
Indoor air flow (H/M/L)		m ³ /h	1333/1158/957	1634/1219/1139
		CFM	784/681/563	961/717/670
Sound pressure level (H/M/L) ³		dB(A)	43/38/32	45/37/35
Indoor unit	Dimensions ⁴ (W×H×D)	in.(mm)	33-1/16×11-13/16×33-1/16(840×300×840)	
	Packing (W×H×D)	in.(mm)	37-19/32×13×37-19/32(955×330×955)	
	Net/Gross weight	lbs(kg)	63.1/75(28.7/34.1)	
Panel	Dimensions (W×H×D)	in.(mm)	37-13/32×2-9/64×37-13/32(950×50×950)	
	Packing (W×H×D)	in.(mm)	40-3/4×3-9/16×40-3/4(1035×89×1035)	
	Net/Gross weight	lbs(kg)	12.8/17.4(5.8/7.9)	
Refrigerant type			R410A	
Pipe connections	Liquid pipe	in.(mm)	Φ 3/8 (9.53)	
	Gas pipe	in.(mm)	Φ 5/8 (15.9)	
	Drain pipe	in.(mm)	OD 1-17/64 (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. Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.
4. Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

MDV-D40Q4/VN1-E(Ar) / MDV-D48Q4/VN1-E(Ar) / MDV-D56Q4/HN1-E(Ar)

Table 1.4: MDV-D40(48)Q4/VN1-E(Ar) / MDV-D56Q4/HN1-E(Ar) specifications

Model			MDV-D40Q4/VN1-E(Ar)	MDV-D48Q4/VN1-E(Ar)	MDV-D56Q4/HN1-E(Ar)
Power supply			1 phase, 220-240V, 60Hz		1 phase, 220-240V, 50/60Hz
Cooling ¹	Capacity	kBtu/h	38	47	54
	Input	W	200	220	170
Heating ²	Capacity	kBtu/h	42	54	61
	Input	W	200	220	170
Indoor fan motor	Type		AC motor		DC motor
	Number		1		
Indoor coil	Number of rows		2	3	3
	Tube pitch × in.(mm) row pitch		13/16×17/32 (21×13.37)		
	Fin spacing	in.(mm)	1/16 (1.5)		
	Fin type		Hydrophilic aluminum		
	Diameter & type	in.(mm)	9/32(Φ7), inner-groove tube		
	Dimensions (L×H×W)	in.(mm)	80-3/4×9-15/16×1-3/64 (2051×252×26.74)	79×9-15/16×1-37/64 (2007×252×40.11)	86-39/64×9-15/16×1-37/64 (2200×252×40.11)
	Number of circuits		8	12	12
Indoor air flow (H/M/L)		m ³ /h	1634/1219/1139	1692/1243/1157	2100/1950/1800/1750/1600/1450/1350
		CFM	961/717/670	995/731/681	1236/1147/1059/1030/941/853/794
Sound pressure level (H/M/L) ³		dB(A)	45/37/35	46/38/37	46/44/42/41/39/38/37
Indoor unit	Dimensions ⁴ (W×H×D)	in.(mm)	33-1/16×11-13/16×33-1/16(840×300×840)		37-13/32×11-13/16×3-47/64 (950×300×95)
	Packing (W×H×D)	in.(mm)	37-19/32×13×37-19/32(955×330×955)		41-11/32×13-3/16×41-11/32 (1050×335×1050)
	Net/Gross weight	kg	63.1/75(28.7/34.1)	68/79.9(30.9/36.3)	77.7/90.6(35.3/41.2)
Panel	Dimensions (W×H×D)	in.(mm)	37-13/32×2-9/64×37-13/32(950×50×950)		41-11/32×2-11/64×41-11/32 (1050×55×1050)
	Packing (W×H×D)	in.(mm)	40-3/4×3-9/16×40-3/4(1035×89×1035)		43-57/64×3-15/16×43-57/64 (1115×100×1115)
	Net/Gross weight	kg	12.8/17.4(5.8/7.9)		16.3/21.3(7.4/9.7)
Refrigerant type			R410A		
Pipe connections	Liquid pipe	in.(mm)	Φ 3/8 (9.53)		
	Gas pipe	in.(mm)	Φ 5/8 (15.9)		
	Drain pipe	in.(mm)	OD 1-17/64 (Φ32)		

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.
- Sound pressure level is measured 1.4m below the unit in a semi-anechoic chamber.

Unit body dimensions given are the largest external dimensions of the unit, including hanger attachments.

Atom Series VRF Indoor Units



2 Dimensions

2.1 Unit Dimensions

Figure 2.1: MDV-D09(12,15,18,24,28,32,36,40,48)Q4/VN1-E(At) Four-way Cassette dimensions (unit: mm)

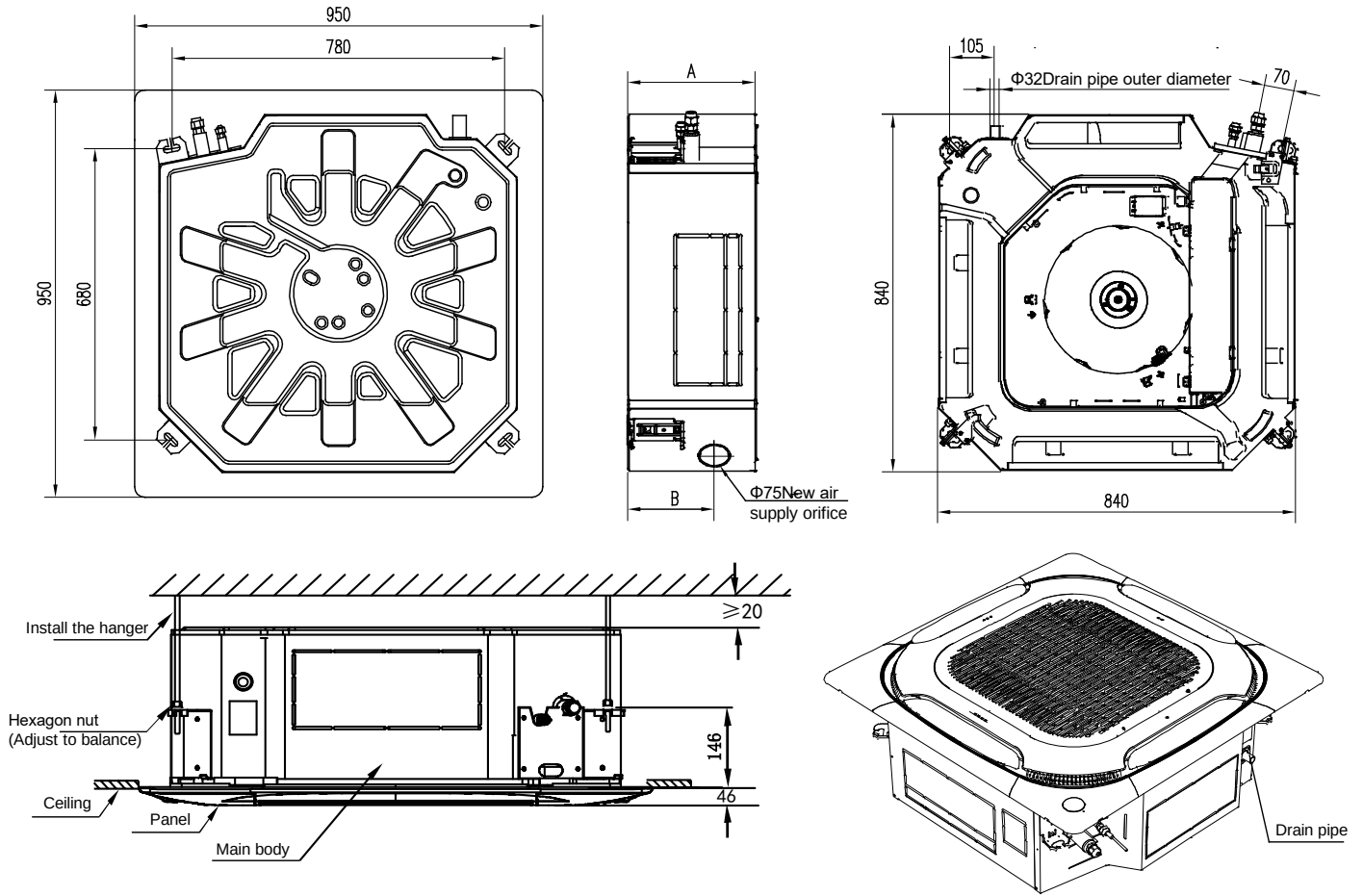


Figure 2.2: MDV-D56Q4/HN1-E(At) Four-way Cassette dimensions (unit: mm)

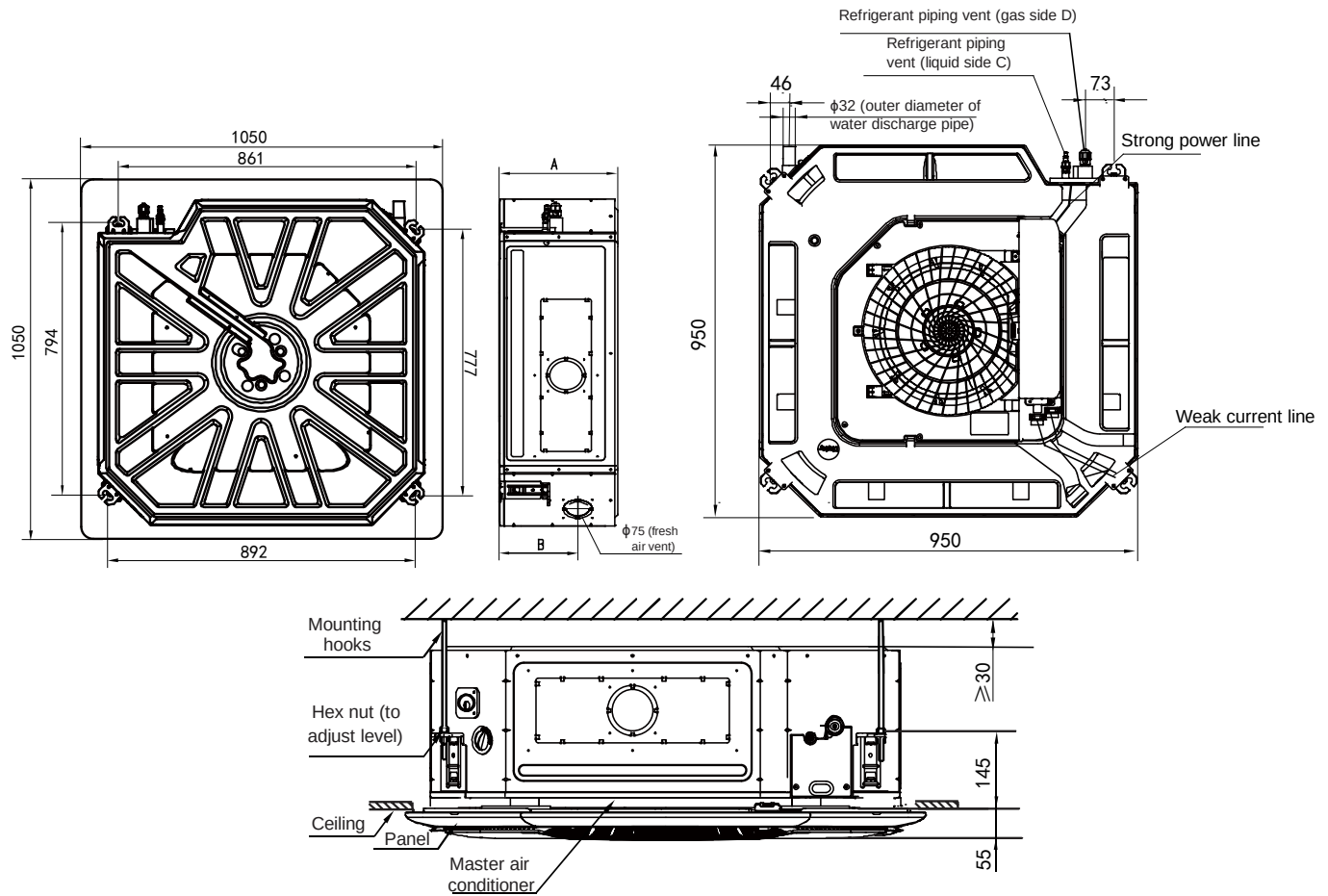


Table 2.1: Four-way Cassette dimensions

Model names	Dimensions (mm)	
	A	B
MDV-D09Q4/VN1-E(At)	230	126
MDV-D12Q4/VN1-E(At)		
MDV-D15Q4/VN1-E(At)		
MDV-D18Q4/VN1-E(At)		
MDV-D24Q4/VN1-E(At)		
MDV-D28Q4/VN1-E(At)		
MDV-D32Q4/VN1-E(At)	300	197
MDV-D36Q4/VN1-E(At)		
MDV-D40Q4/VN1-E(At)		
MDV-D48Q4/VN1-E(At)		
MDV-D56Q4/HN1-E(At)	300	200

Table 2.2: Four-way Cassette piping connections

Model names	Gas pipe (mm)	Liquid pipe (mm)
MDV-D09Q4/VN1-E(At)	Φ12.7	Φ6.35
MDV-D12Q4/VN1-E(At)		
MDV-D15Q4/VN1-E(At)		
MDV-D18Q4/VN1-E(At)	Φ15.9	Φ9.53
MDV-D24Q4/VN1-E(At)		
MDV-D28Q4/VN1-E(At)		
MDV-D36Q4/VN1-E(At)		
MDV-D36Q4/VN1-E(At)		
MDV-D40Q4/VN1-E(At)		
MDV-D48Q4/VN1-E(At)		
MDV-D56Q4/HN1-E(At)		

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3 Unit Placement

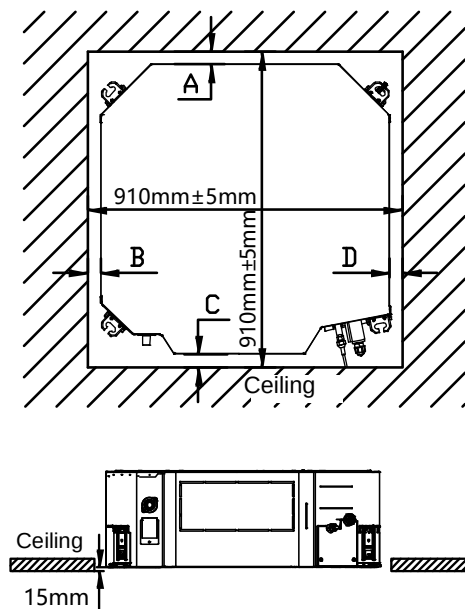
3.1 Placement Considerations

Unit placement should take account of the following considerations:

- Units should not be installed in the following locations:
 - Where exposure to direct radiation from a high-temperature heat source or to interference from a source of electromagnetic radiation may occur.
 - Where dust or dirt may affect heat exchangers.
 - Where exposure to oil or to corrosive or harmful gases, such as acidic or alkaline gases, may occur.
 - Where exposure to salinity may occur, such as seaside locations.
 - Where highly flammable materials are present.
 - Where exposure to oily air may occur, such as a kitchen.
 - Where exposure to very high humidity may occur, such as a laundry.
- Units should be installed in positions where:
 - The ceiling is horizontal and is able to bear the unit's weight.
 - There are no obstructions that could impede the airflow into and out of the unit.
 - The airflow out of the unit can reach throughout the room.
 - There is sufficient space for access during installation, servicing and maintenance.
 - The refrigerant piping and drain piping can be easily connected to the refrigerant piping and drain piping systems.
 - Short-circuit ventilation (where outlet air returns quickly to a unit's air inlet) will not occur.

3.2 Space Requirements

Figure 3.1: Four-way Cassette space requirements (unit: mm)



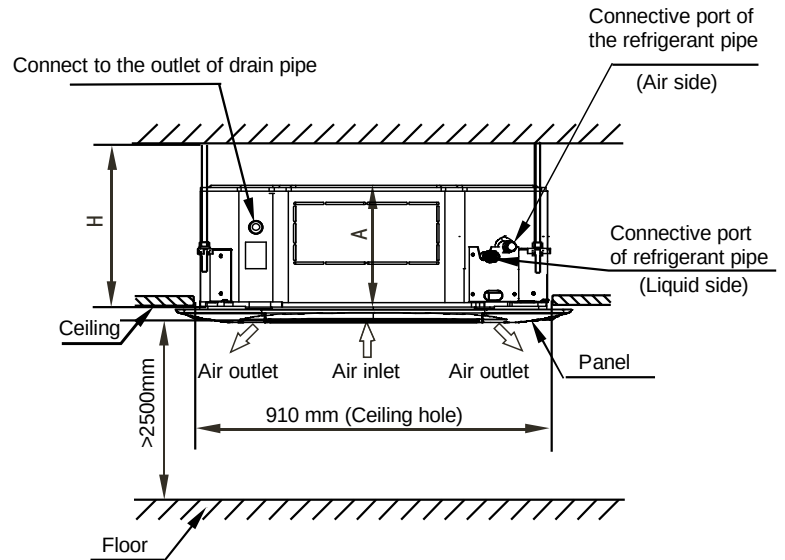
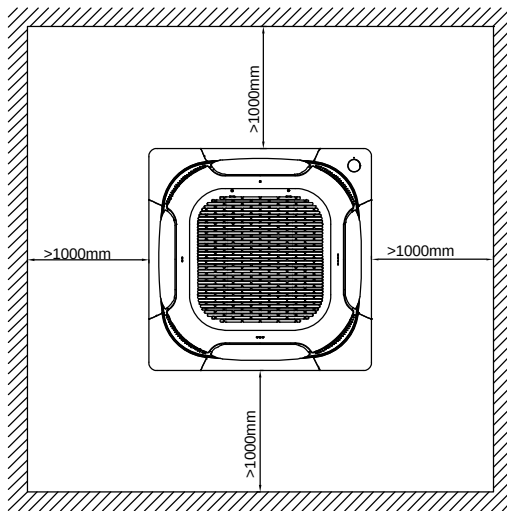


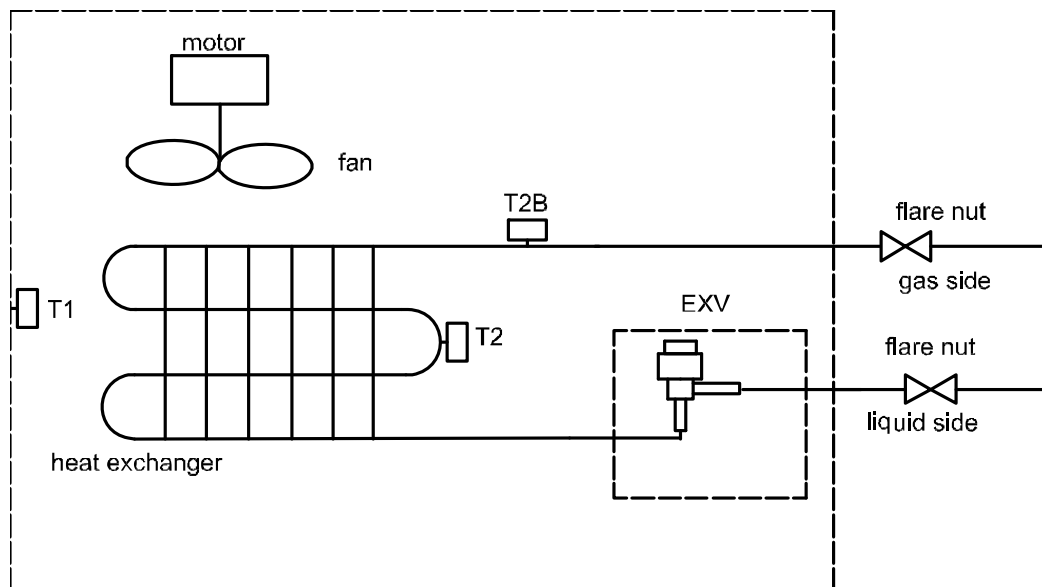
Table 3.1: Four-way Cassette dimensions and space requirements

Model name	Dimensions / Requirements (mm)	
	A	H
MDV-D09Q4/VN1-E(At) MDV-D12Q4/VN1-E(At) MDV-D15Q4/VN1-E(At) MDV-D18Q4/VN1-E(At) MDV-D24Q4/VN1-E(At) MDV-D28Q4/VN1-E(At)	230	≥260
MDV-D32Q4/VN1-E(At) MDV-D36Q4/VN1-E(At) MDV-D40Q4/VN1-E(At) MDV-D48Q4/VN1-E(At) MDV-D56Q4/HN1-E(At)	300	≥330

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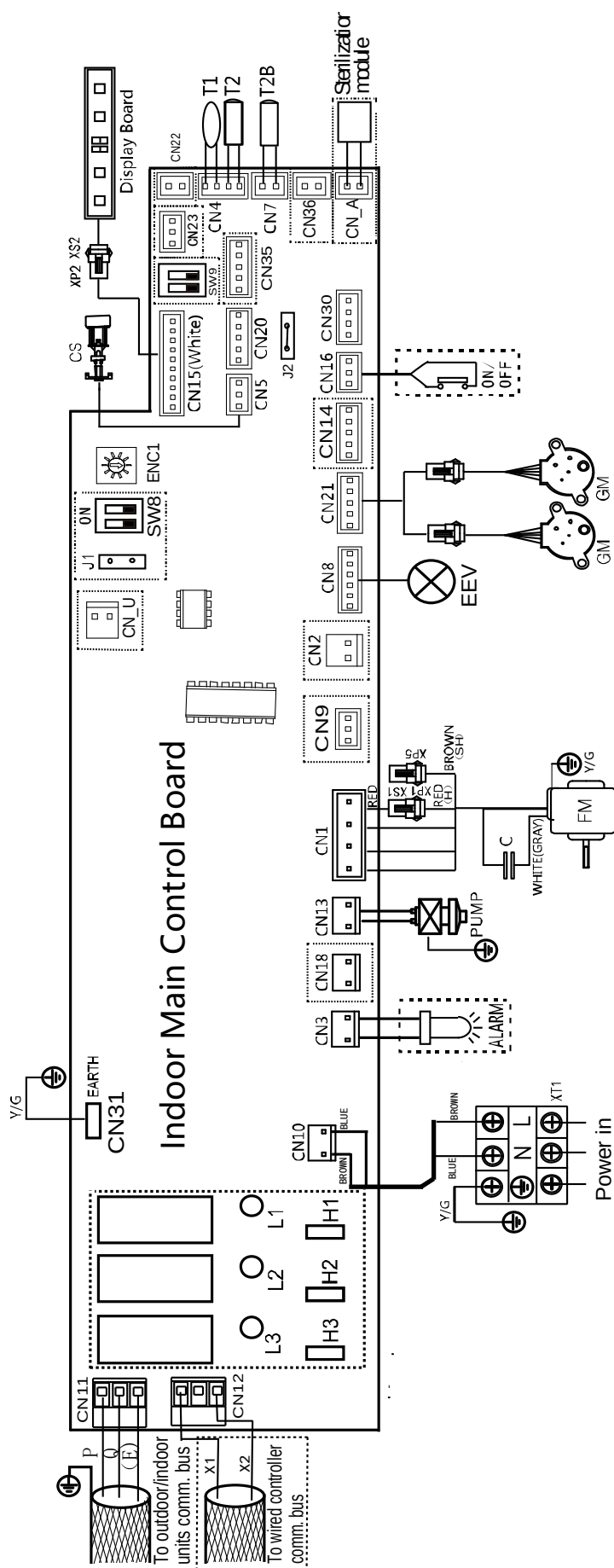
4 Piping Diagram

Figure 4.1: Four-way Cassette piping diagram



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

Figure 5.1: MDV-D09(12,15,18,24,28,32,36,40,48)Q4/VN1-E(At) Four-way Cassette wiring diagram

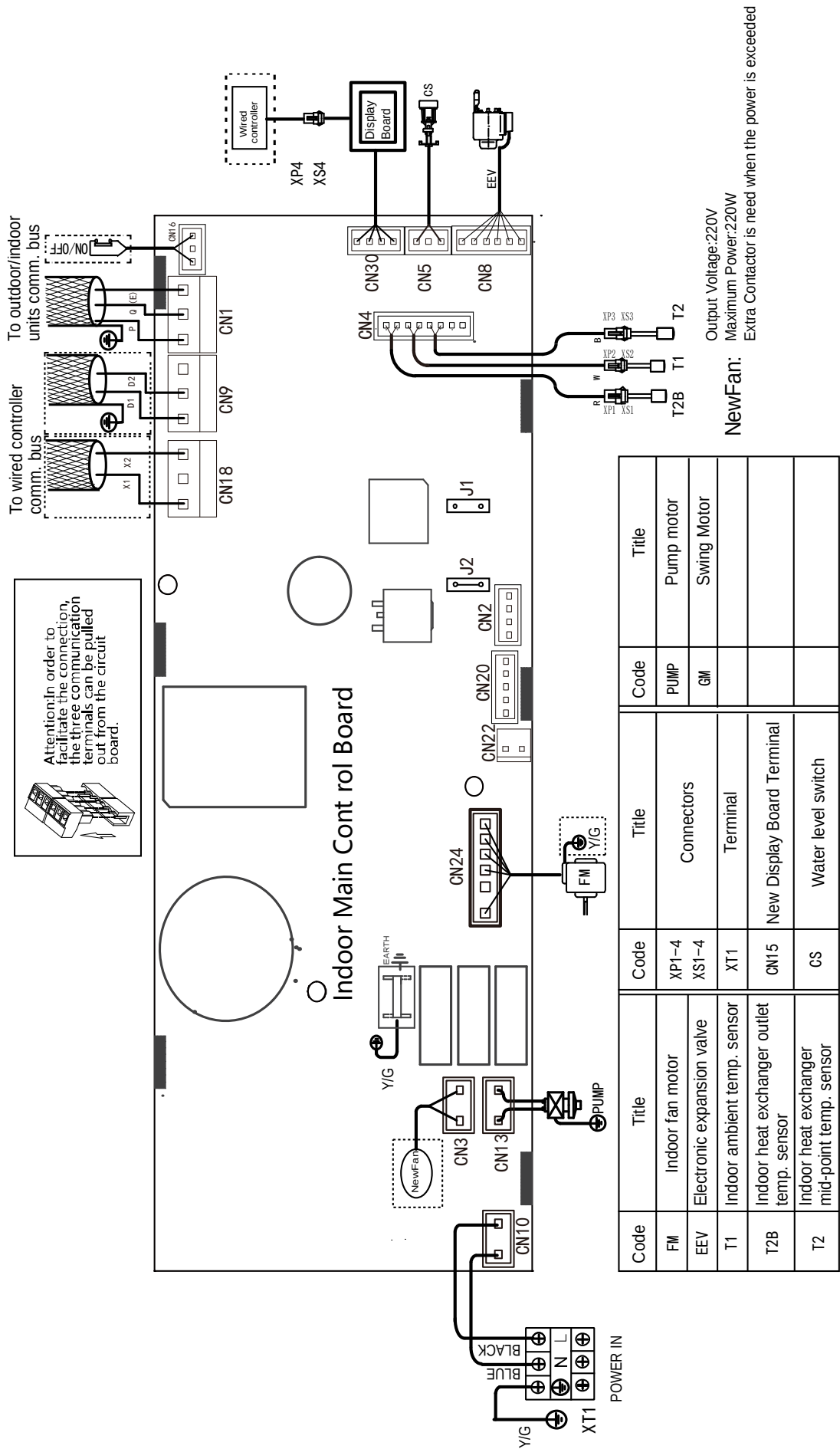


Code	Title	Code	Title	Code	Title
FM	Indoor Fan Motor	XP1-8	Connectors	GM	Swing Motor
EEV	Electronic Expansion Valve	XS1-8		C	Fan Motor capacitance
T1	Room Temp. Sensor	XT1	Terminal	ALARM	Warning Lamp(Optional)
T2B	Outer Pipe Temp. Sensor	PUMP	Pump Motor	ON/OFF	Remote on/off switch
T2	Middle Pipe Temp. Sensor	CS	Water Level Switch		

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Figure 5.2: MDV-D56Q4/HH1-E(At) Four-way Cassette wiring diagram



Notes for installers and service engineers **Caution**

- All installation, servicing and maintenance must be carried out by competent and suitably qualified, certified and accredited professionals and in accordance with all applicable legislation.
- Units should be grounded in accordance with all applicable legislation. Metal and other conductive components should be insulated in accordance with all applicable legislation.
- Power supply wiring should be securely fastened at the power supply terminals – loose power supply wiring would represent a fire risk.
- After installation, servicing or maintenance, the electric control box cover should be closed. Failing to close the electric control box cover risks fire or electric shock.
- Switch ENC1 (indoor unit capacity setting) is factory-set and its setting should normally not be changed. The only circumstances in which a switch ENC1 might need to be set in the field is when replacing a main PCB. When replacing a main PCB, ensure that the capacity setting on switch ENC1 on the new PCB is consistent with the unit capacity given on the unit's nameplate.

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6 Capacity Tables

6.1 Cooling Capacity Table

Table 6.1: Four-way Cassette 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-D09Q4/VN1-E(At)	2.5	2.5	2.7	2.5	2.8	2.5	2.8	2.4	2.9	2.3	2.9	2.2	3.0	2.1
MDV-D12Q4/VN1-E(At)	3.2	3.2	3.4	3.2	3.6	3.2	3.6	3.0	3.7	3.0	3.8	2.8	3.9	2.7
MDV-D15Q4/VN1-E(At)	4.0	3.9	4.3	3.9	4.5	3.9	4.5	3.7	4.6	3.6	4.7	3.4	4.8	3.3
MDV-D18Q4/VN1-E(At)	5.0	4.8	5.3	4.8	5.6	4.8	5.6	4.6	5.7	4.5	5.8	4.2	6.0	4.1
MDV-D24Q4/VN1-E(At)	6.3	6.1	6.7	6.1	7.0	6.0	7.1	5.8	7.2	5.7	7.4	5.4	7.6	5.2
MDV-D28Q4/VN1-E(At)	7.1	6.9	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-D36Q4/VN1-E(At)	8.0	7.6	8.5	7.6	8.9	7.6	9.0	7.3	9.1	7.1	9.4	6.8	9.6	6.5
MDV-D36Q4/VN1-E(At)	8.9	8.6	9.5	8.6	9.9	8.5	10.0	8.2	10.1	7.9	10.4	7.6	10.6	7.2
MDV-D40Q4/VN1-E(At)	9.9	9.5	10.6	9.6	11.1	9.5	11.2	9.2	11.3	8.9	11.6	8.4	11.9	8.1
MDV-D48Q4/VN1-E(At)	12.4	11.6	13.2	11.7	13.8	11.6	14.0	11.3	14.2	11.0	14.5	10.5	14.9	10.1
MDV-D56Q4/HN1-E(At)	14.2	13.5	15.1	13.5	15.8	13.4	16.0	13.0	16.2	12.6	16.6	12.0	17.0	11.5

Abbreviations:

TC: Total capacity (kW)

SC: Sensible capacity (kW)

Notes:

1. Shaded cells indicate rating condition

6.2 Heating Capacity Table

Table 6.2: Four-way Cassette heating capacity

Model	Indoor air temperature (°C DB)					
	16	18	20	21	22	24
	TC	TC	TC	TC	TC	TC
MDV-D09Q4/VN1-E(At)	3.4	3.4	3.2	3.1	3.0	2.8
MDV-D12Q4/VN1-E(At)	4.2	4.2	4.0	3.8	3.8	3.5
MDV-D15Q4/VN1-E(At)	5.3	5.3	5.0	4.8	4.7	4.4
MDV-D18Q4/VN1-E(At)	6.7	6.6	6.3	6.1	5.9	5.5
MDV-D24Q4/VN1-E(At)	8.5	8.4	8.0	7.8	7.5	7.0
MDV-D28Q4/VN1-E(At)	9.5	9.5	9.0	8.7	8.5	7.8
MDV-D36Q4/VN1-E(At)	10.6	10.5	10.0	9.7	9.4	8.8
MDV-D36Q4/VN1-E(At)	11.8	11.7	11.1	10.8	10.4	9.7
MDV-D40Q4/VN1-E(At)	13.3	13.1	12.5	12.1	11.8	10.9
MDV-D48Q4/VN1-E(At)	17.0	16.8	16.0	15.5	15.0	13.9
MDV-D56Q4/HN1-E(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

7 Electrical Characteristics

Table 7.1: Four-way Cassette electrical characteristics

Model	Power supply						Indoor fan motors	
	Hz	Volts	Min. volts	Max. volts	MCA	MFA	Rated motor output (kW)	FLA
MDV-D09Q4/VN1-E(At)	60	220-240	198	264	0.3	15	0.026	0.2
MDV-D12Q4/VN1-E(At)	60	220-240	198	264	0.3	15	0.026	0.2
MDV-D15Q4/VN1-E(At)	60	220-240	198	264	0.4	15	0.026	0.3
MDV-D18Q4/VN1-E(At)	60	220-240	198	264	0.4	15	0.026	0.3
MDV-D24Q4/VN1-E(At)	60	220-240	198	264	0.4	15	0.037	0.3
MDV-D28Q4/VN1-E(At)	60	220-240	198	264	0.5	15	0.037	0.4
MDV-D36Q4/VN1-E(At)	60	220-240	198	264	0.8	15	0.05	0.7
MDV-D36Q4/VN1-E(At)	60	220-240	198	264	0.9	15	0.065	0.7
MDV-D40Q4/VN1-E(At)	60	220-240	198	264	0.9	15	0.065	0.7
MDV-D48Q4/VN1-E(At)	60	220-240	198	264	0.9	15	0.065	0.8
MDV-D56Q4/HN1-E(At)	50/60	220-240	198	264	1.26	15	0.09	1.01

Abbreviations:

MCA: Minimum Circuit Amps

MFA: Maximum Fuse Amps

FLA: Full Load Amps

Atom Series VRF Indoor Units

8 Sound Levels

8.1 Overall

Table 8.1: Four-way Cassette sound pressure levels¹

Model	Sound pressure levels dB(A)		
	H	M	L
MDV-D09Q4/VN1-E(At)	30	25	22
MDV-D12Q4/VN1-E(At)	30	25	22
MDV-D15Q4/VN1-E(At)	35	31	27
MDV-D18Q4/VN1-E(At)	35	31	27
MDV-D24Q4/VN1-E(At)	43	37	31
MDV-D28Q4/VN1-E(At)	43	37	31
MDV-D36Q4/VN1-E(At)	43	38	32
MDV-D36Q4/VN1-E(At)	45	37	35
MDV-D40Q4/VN1-E(At)	45	37	35
MDV-D48Q4/VN1-E(At)	46	38	37

Notes:

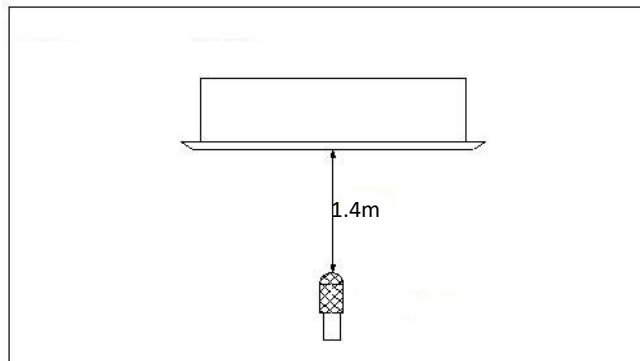
1. Sound pressure levels are measured 1.4m below the unit in a semi-anechoic chamber. During in-situ operation, sound pressure levels may be higher as a result of ambient noise.

Model name	Sound pressure levels dB(A)						
	SSH	SH	H	M	L	SL	SSL
MDV-D56Q4/HN1-E(At)	46	44	42	41	39	38	37

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: Four-way Cassette sound pressure level measurement



8.2 Octave Band Levels

Figure 8.2: MDV-D09(12)Q4/VN1-E(At) octave band levels

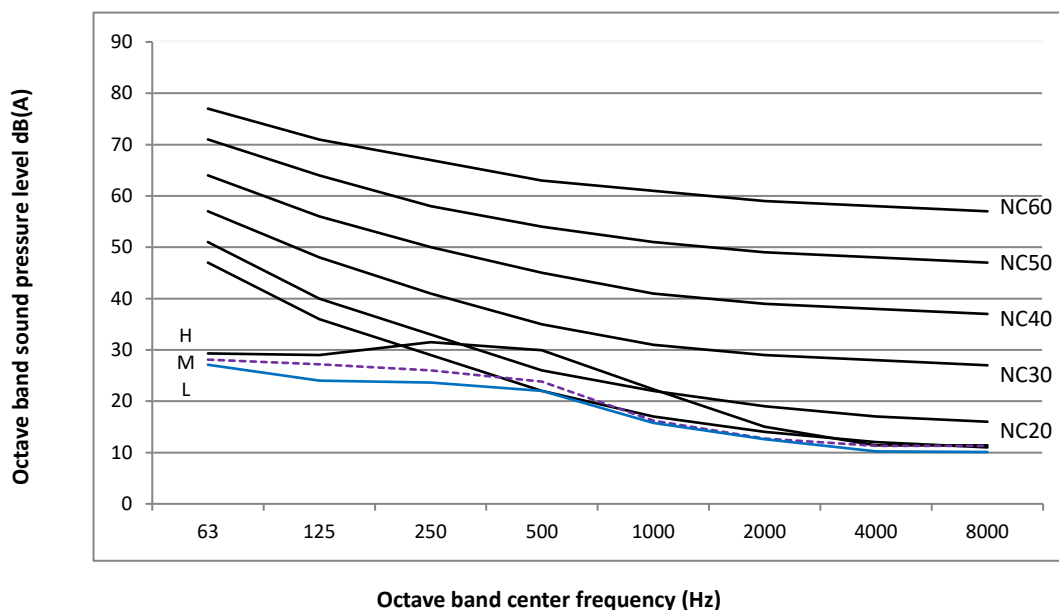


Figure 8.3: MDV-D15(18)Q4/VN1-E(At) octave band levels

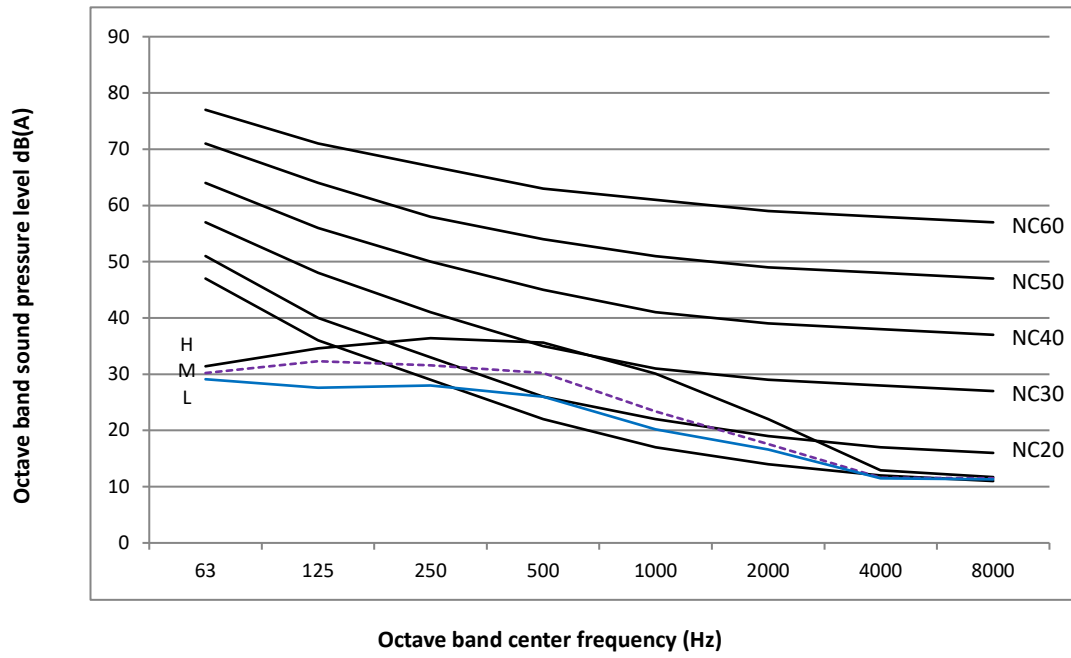


Figure 8.4: MDV-D24(28)Q4/VN1-E(At) octave band levels

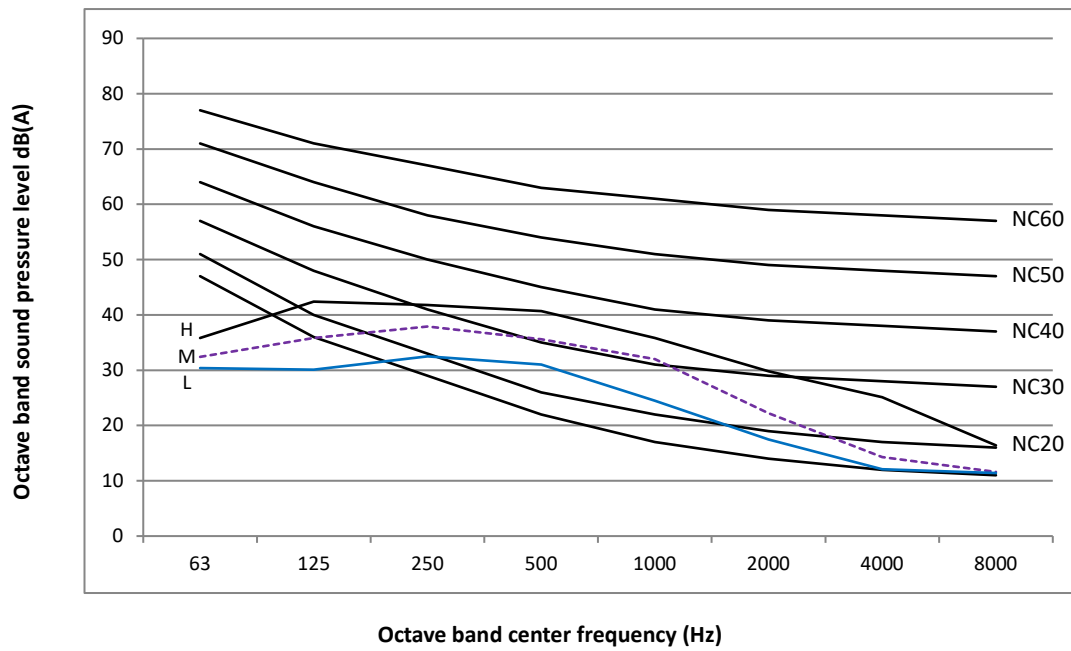


Figure 8.5: MDV-D32Q4/VN1-E(At) octave band levels

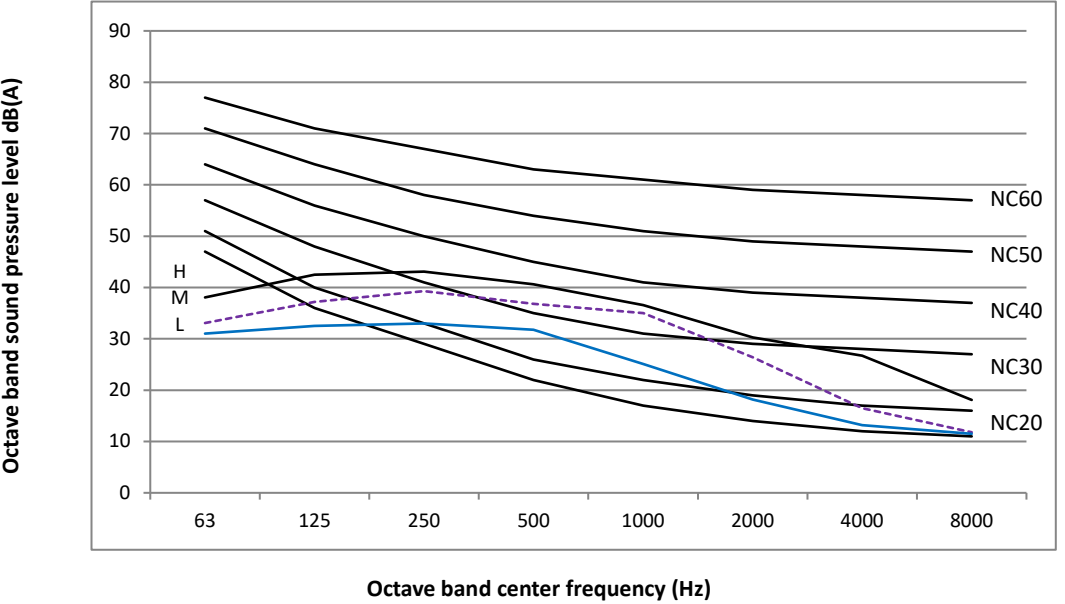


Figure 8.6: MDV-D36(40)Q4/VN1-E(At) octave band levels

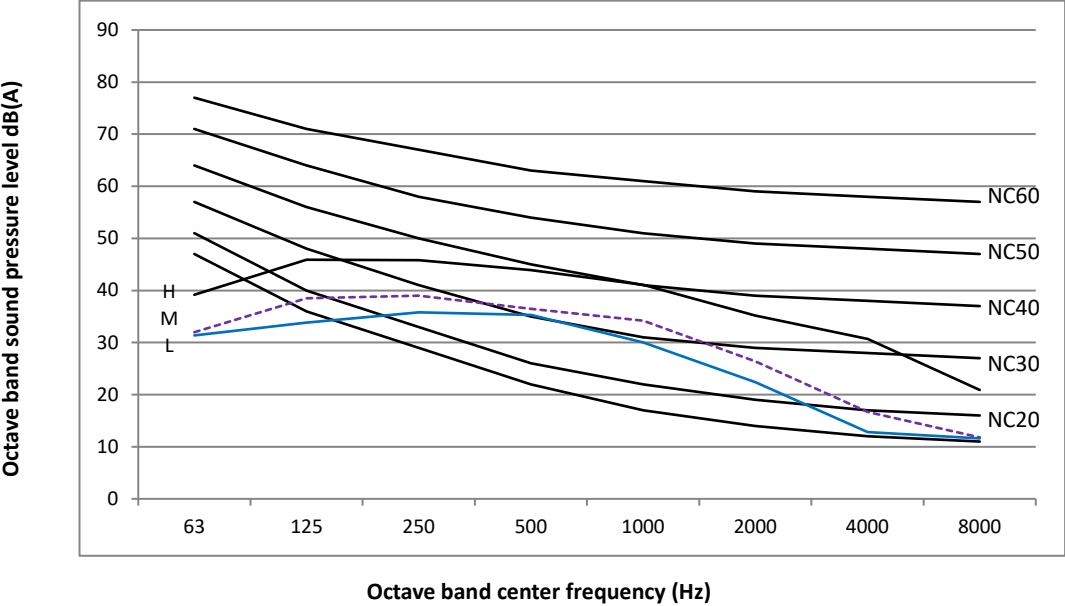


Figure 8.7: MDV-D48Q4/VN1-E(A) octave band levels

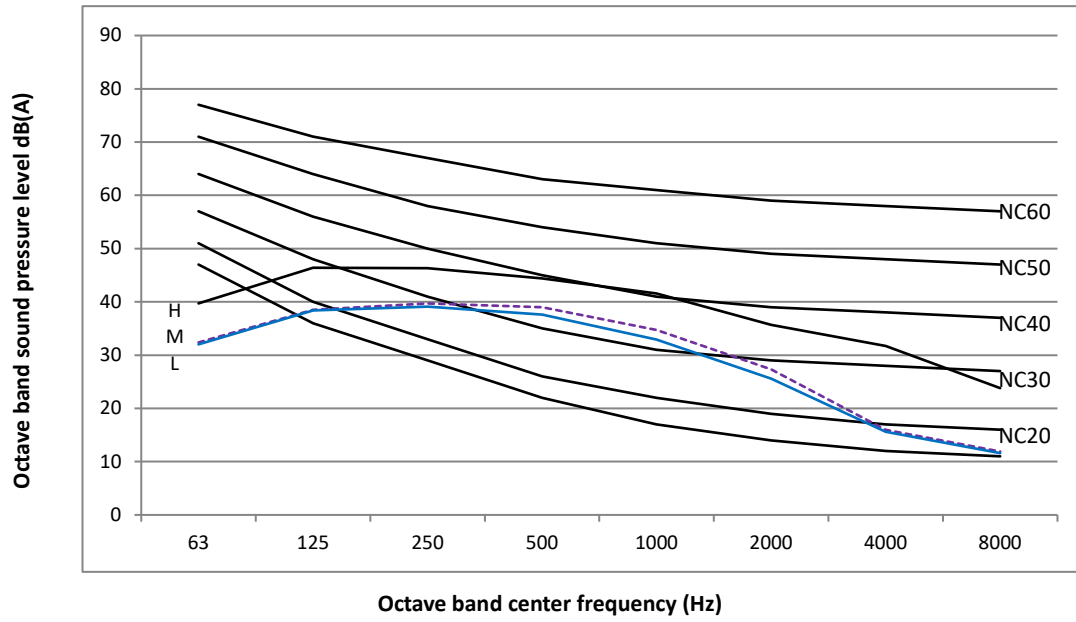
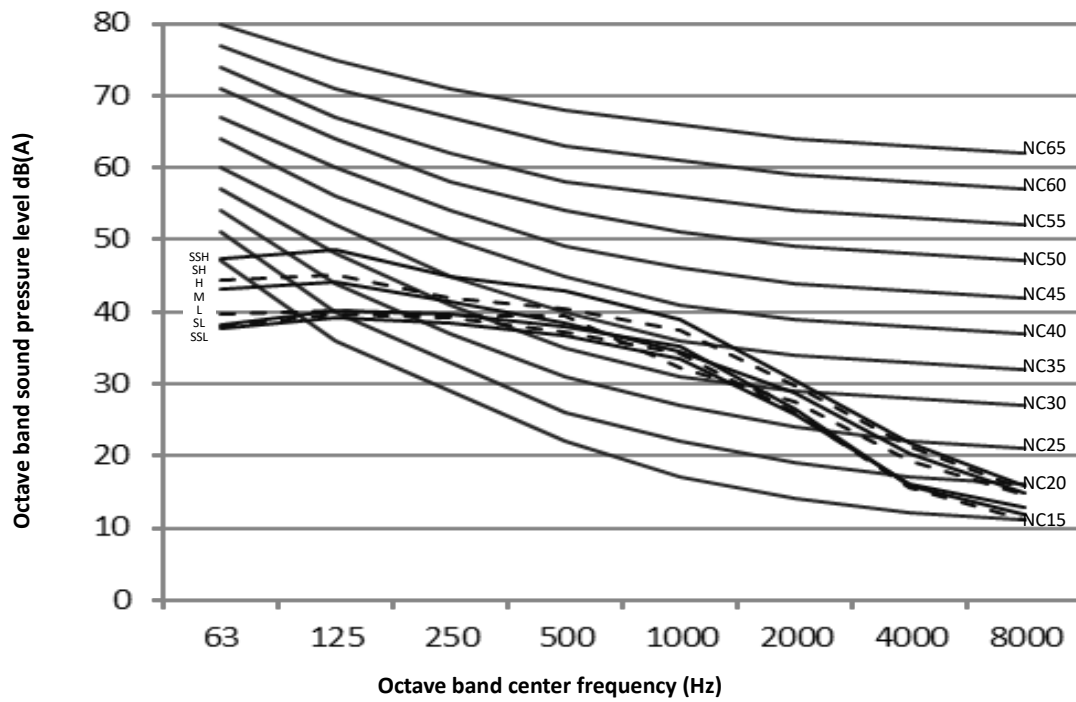


Figure 8.8: MDV-D56Q4/HN1-E(A) octave band levels



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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.

