

Concealed Duct Unit (A5 Type)

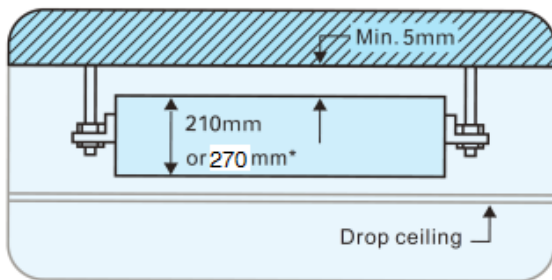
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1. Features

1.1 Compact size



1.1.1 Only 210 mm (22~71 models) or 270mm (80 to 140 models) in height, this model can be installed in rooms with as little as 240mm~300 mm depth between the drop-ceiling and ceiling slab.



1.1.2 **The EXV is built-in** design of the indoor unit, makes the main body without an extra throttle kit box.

1.2 Wide capacity range

The capacity ranges from 2.2kW to 14.0kW, totally ten models.

1.3 Four speed fan motor(Super High 'SH' speed as an option)

1.4 Two external static pressure settings for added flexibility

Just exchange the wiring connection of 'SH' and 'Hi'. P2 and P3 as the right side diagram.

1.5 Convenient installation

1.5.1 The EXV is fixed inside of the indoor unit.

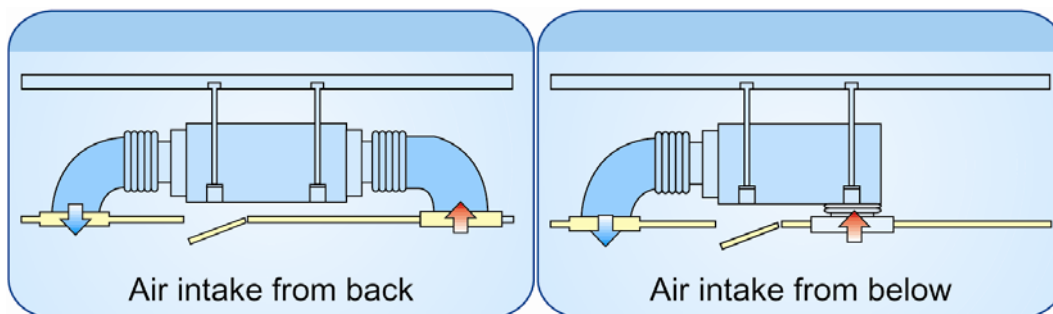
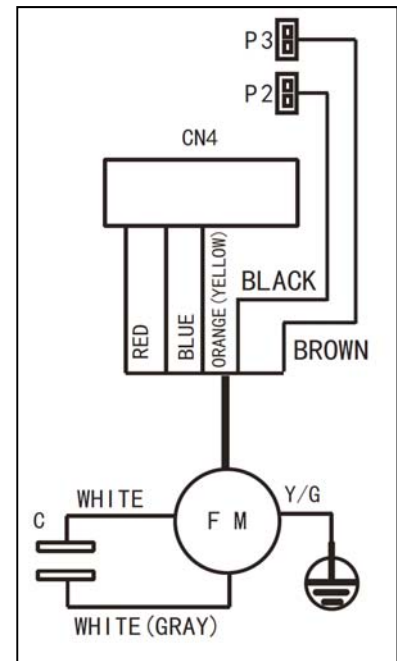
1.5.2 Standard filter with aluminum frame, which is removable downward from the bottom.

1.5.3 Suction chamber is included as standard equipment.

1.5.4 Flange for air in/outlet duct connection is standard.

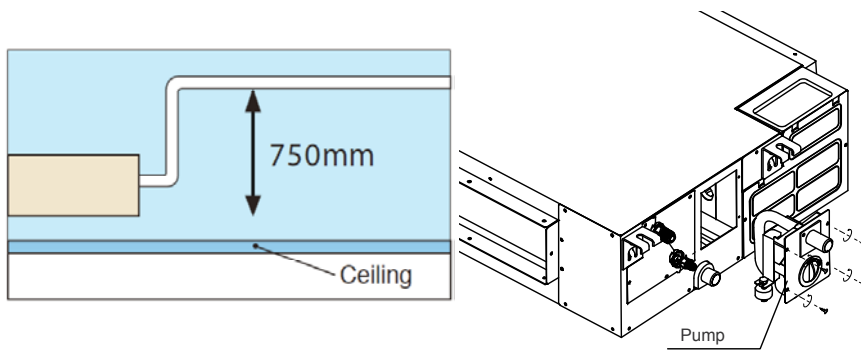
1.5.5 Air inlet from back standard and from bottom optional

Size of the plate from bottom and flange from back is the same, which makes it possible to convert the air return from back to bottom easily by installer.



1.5.6 Standard **built-in** drain pump

Drain pump is equipped as standard accessory with 750 mm pumphead.



1.6 Flexible control and convenient for maintenance

1.6.1 Standard wired remote controller KJR-12B (FOLLOW ME), and wireless remote controller RM05 is optional.

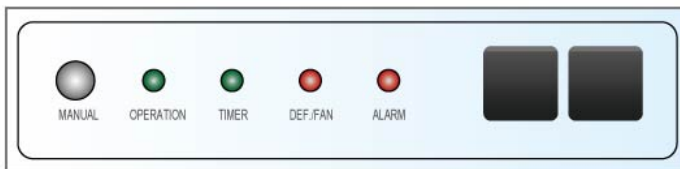
1.6.2 The display board is connected with the E-box in factory, which makes trouble-shooting easier by LED display.



22~56 model(Standard)



22~56 model(Optional)

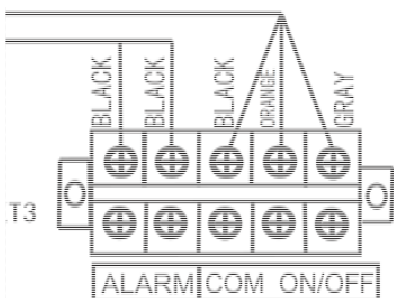


71~140 model

1.6.3 The electrical control box is possible to remove 1m far away from the main unit, which is suitable for the small space hard to maintain *. (It should be required by client in advance and done by Midea CAC in factory)

1.6.4 The EXV is fixed inside of the indoor unit, which is **weld connected** and convenient for installation.

1.6.5 Standard functional port such as Remote On/Off Dry contact switch, and Alarm signal output (220V).



1.7 Auto restart

When the indoor unit is powered off, it will auto restart when powered on again after 3 minutes and operate in the original state.

2. Specifications

Model			MDV-D22T2/N1-BA5	MDV-D28T2/N1-BA5	MDV-D36T2/N1-BA5
Power supply		V- Ph-Hz	220-240V~, 1Ph, 50Hz		
Cooling	Capacity	kW	2.2	2.8	3.6
	Input	W	57	57	61
	Rated current	A	0.28	0.28	0.28
Heating	Capacity	kW	2.6	3.2	4.0
	Input	W	57	57	61
	Rated current	A	0.28	0.28	0.28
Indoor fan motor	Model		YSK27-4C	YSK27-4C	YSK27-4C
	Type		AC Motor		
	Brand		Welling		
	Input	W	50.4	50.4	51.2
	Capacitor	μF	1.5μF/220V	1.5μF/220V	2μF/220V
	Speed (SH/Hi/Mid/Lo)	r/min	1180/960/830/730	1180/960/830/730	1270/1090/960/860
Indoor coil	Number of rows		2	2	3
	Tube pitch(a) × row pitch(b)	mm	21×13.37	21×13.37	21×13.37
	Fin spacing	mm	1.5	1.5	1.5
	Fin type		Hydrophilic aluminum		
	Tube outside diameter and type	mm	Φ7 Inner groove tube		
	Length × height × width	mm	515×26.74×252	515×26.74×252	735×40.1×252
	Number of circuits		3	3	3
Indoor air flow (SH/H/M/L)	m ³ /h	570/530/410/320	570/530/410/320	570/530/410/320	
Indoor external static pressure (Hi)	Pa	10(10~30)			
Indoor noise level (Hi/Mid/Lo)	dB(A)	38/35/32	38/35/32	40/38/36	
Indoor unit	Dimension (W×H×D)	mm	700×210×635	700×210×635	700×210×635
	Packing (W×H×D)	mm	915×290×655	915×290×655	915×290×655
	Net/Gross weight	kg	21.5/26	21.5/26	22/27
Fresh Air intake hole diameter (round)	mm	Φ92	Φ92	Φ92	
Refrigerant type		R410A			
Throttle	Type		EXV		
	Model		BD20FKS(L)		
Design pressure	MPa	4.4/2.6			
Refrigerant piping	Liquid / Gas	mm	Φ6.35/ Φ12.7	Φ6.35/ Φ12.7	Φ6.35/ Φ12.7
Connecting wiring	Power wiring	mm ²	3×2.5(L≤20m); 3×3.5(L≤50m)		
	Signal wiring	mm ²	3×0.75		
Drainage water pipe diameter	mm	Φ32 (ID Φ25, OD Φ32)			
Controller		Wired controller KJR-12B/DP(T)-E (6 meters connection wire)			
Operation temp	°C	Cooling: 17~32; Heating:10~28			

Notes: 1. Nominal cooling capacities are based on the following conditions: return air temp. : 27°CDB/19°CWB, outdoor temp.:35°CDB, equivalent piping: 8m(horizontal).

2. Nominal heating capacities are based on the following conditions: return air temp.: 20°CDB, outdoor temp.: 7°CDB/6°CWB, equivalent piping: 8m(horizontal).

Model			MDV-D45T2/N1-BA5	MDV-D56T2/N1-BA5	MDV-D71T2/N1-CA5
Power supply		V- Ph-Hz	220-240V~, 1Ph, 50Hz		
Cooling	Capacity	kW	4.5	5.6	7.1
	Input	W	92	92	125
	Rated current	A	0.5	0.5	0.7
Heating	Capacity	kW	5	6.3	8
	Input	W	92	92	125
	Rated current	A	0.5	0.5	0.7
Indoor fan motor	Model		YSK68-4P	YSK68-4P	YSK70-4P
	Type		AC MOTOR		
	Brand		Welling		
	Input	W	91	91	125
	Capacitor	μF	3.5μF/220V	3.5μF/220V	3.5μF/220V
	Speed (SH/Hi/Mid/Lo)	r/min	1150/1020/800/700	1150/1020/800/700	1315\1202\1066\1005
Indoor coil	Number of rows		3	3	3
	Tube pitch(a) × row pitch(b)	mm	21×13.37	21×13.37	21×13.37
	Fin spacing	mm	1.5	1.5	1.5
	Fin type		Hydrophilic aluminum		
	Tube outside diameter and type	mm	Φ7 Inner groove tube		
	Length × height × width	mm	735×40.1×252	735×40.1×252	955×40.1×252
	Number of circuits		4	4	5
Indoor air flow (SH/H/M/L)	m ³ /h	958/850/667/583	958/850/667/583	1314/998/820/607	
Indoor external static pressure (Hi)	Pa	10(10~30)			
Indoor noise level (Hi/Mid/Lo)	dB(A)	41/38.9/36	41/38.9/36	42/40/35	
Indoor unit	Dimension (W×H×D)	mm	920×210×635	920×210×635	1140×210×635
	Packing (W×H×D)	mm	1135×290×655	1135×290×655	1355×290×655
	Net/Gross weight	kg	27/32	27/32	31.8/35.8
Fresh Air intake hole diameter (round)	mm	Φ92	Φ92	Φ92	
Refrigerant type		R410A			
Throttle	Type		EXV		
	Model		BD20FKS(L)		
Design pressure	MPa	4.4/2.6			
Refrigerant piping	Liquid / Gas	mm	Φ6.35/ Φ12.7	Φ9.52/ Φ15.9	Φ9.52/Φ15.9
Connecting wiring	Power wiring	mm ²	3×2.5(L≤20m); 3×3.5(L≤50m)		
	Signal wiring	mm ²	3×0.75		
Drainage water pipe diameter	mm	Φ32 (ID Φ25, OD Φ32)			
Controller		Wired controller KJR-12B/DP(T)-E (6 meters connection wire)			
Operation temp	°C	Cooling: 17~32; Heating:10~28			

Notes: 1. Nominal cooling capacities are based on the following conditions: return air temp. : 27°CDB/ 19°CWB, outdoor temp.:35°CDB, equivalent piping: 8m(horizontal).

2. Nominal heating capacities are based on the following conditions: return air temp.: 20°CDB, outdoor temp.: 7°CDB/6°CWB, equivalent piping: 8m(horizontal).

Model			MDV-D80T2/N1 -BA5	MDV-D90T2/N1 -BA5	MDV-D112T2/N1 -BA5	MDV-D140T2/N1 -BA5
Power supply		V- Ph-Hz	220-240V~, 1Ph, 50Hz			
Cooling	Capacity	kW	8	9	11.2	14
	Input	W	198	200	313	274
	Rated current	A	1	1	1.8	1.8
Heating	Capacity	kW	9	10	12.5	15.5
	Input	W	198	200	313	274
	Rated current	A	1.16	1.16	1.65	1.8
Indoor fan motor	Model		YSK100-4P	YSK100-4P	YSK200-4P	YSK180-4P
	Type		AC MOTOR			
	Brand		Welling			
	Input	W	179	179	300	255
	Capacitor	μF	10μF/220V	10μF/220V	10μF/220V	10μF/220V
	Speed (SH/Hi/Mid/Lo)	r/min	935/810/700/620	935/810/700/620	1130/1000/870/770	1080/960/830/710
Indoor coil	Number of rows		4	4	4	4
	Tube pitch(a) × row pitch(b)	mm	21×13.37	21×13.37	21×13.37	25.4×22
	Fin spacing	mm	1.5	1.5	1.5	1.5
	Fin type		Hydrophilic aluminum			
	Tube outside diameter and type	mm	Φ7 Inner groove tube			
	Length × height × width	mm	955×54×336	955×54×336	955×54×336	1030×88×457.2
	Number of circuits		5	8	8	8
Indoor air flow (SH/H/M/L)		m ³ /h	1400/1226/1018 /861	1400/1226/1018 /861	1750/1752/1552 /1389	2138/1918/1539 /1250
Indoor external static pressure (Hi)		Pa	20(10~50))	20(10~50))	40(10~80))	40(10~80)
Indoor noise level (Hi/Mid/Lo)		dB(A)	45.4/39.8/37	45.4/39.8/37	48.0 /41.9/38	47.7/43.2/39.0
Indoor unit	Dimension (W×H×D)	mm	1140×270×775	1140×270×775	1140×270×775	1200×300×865
	Packing (W×H×D)	mm	1355×350×795	1355×350×795	1355×350×795	1385×375×920
	Net/Gross weight	kg	38/46.5	40/48	40/48	49/58
Fresh Air intake hole diameter (round)		mm	Φ125	Φ125	Φ125	Φ125
Refrigerant type			R410A			
Throttle	Type		EXV			
	Model		BD24FKS(L)			
Design pressure		MPa	4.4/2.6			
Refrigerant piping	Liquid / Gas	mm	Φ9.52/Φ15.9	Φ9.52/Φ15.9	Φ9.52/Φ15.9	Φ9.52/Φ15.9
Connecting wiring	Power wiring	mm ²	3×2.5(L≤20m); 3×3.5(L≤50m)			
	Signal wiring	mm ²	3×0.75			
Drainage water pipe diameter		mm	Φ32 (ID Φ25, OU Φ32)			
Controller			Wired controller KJR-12B/DP(T)-E (6 meters connection wire)			
Operation temp		°C	Cooling: 17~32; Heating:10~28			

Notes: 1. Nominal cooling capacities are based on the following conditions: return air temp. : 27°CDB/19°CWB, outdoor temp.:35°CDB, equivalent piping: 8m(horizontal).

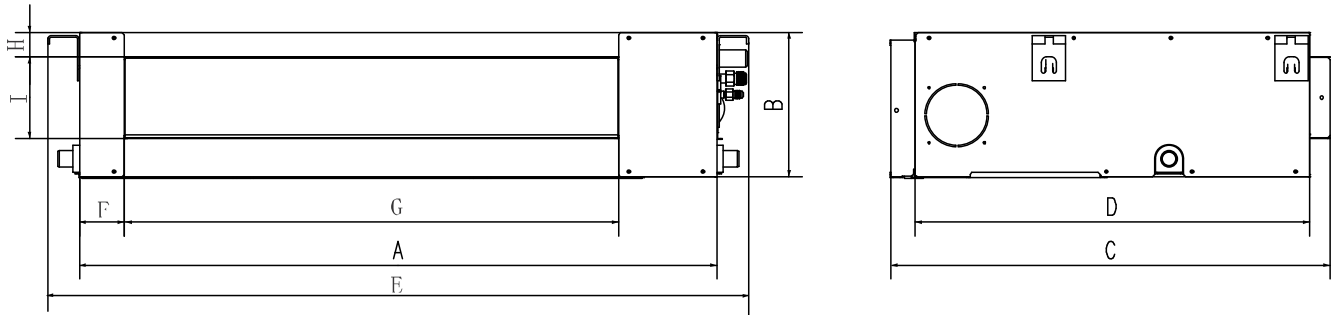
2. Nominal heating capacities are based on the following conditions: return air temp.: 20°CDB, outdoor temp.: 7°CDB/6°CWB, equivalent piping: 8m(horizontal).

3. Dimensions

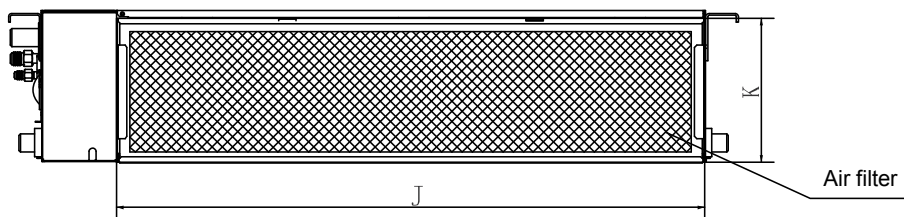
MDV-D22T2/N1-BA5 MDV-D28T2/N1-BA5 MDV-D36T2/N1-BA5 MDV-D45T2/N1-BA5
 MDV-D56T2/N1-BA5 MDV-D71T2/N1-CA5 MDV-D80T2/N1-BA5 MDV-D90T2/N1-BA5
 MDV-D112T2/N1-BA5 MDV-D140T2/N1-BA5

Outline dimension and air outlet opening size:

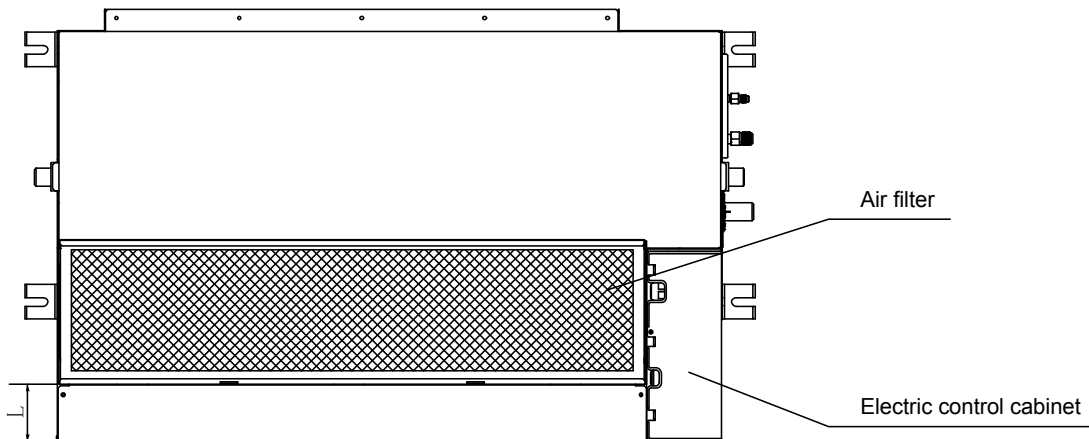
(Unit: mm)



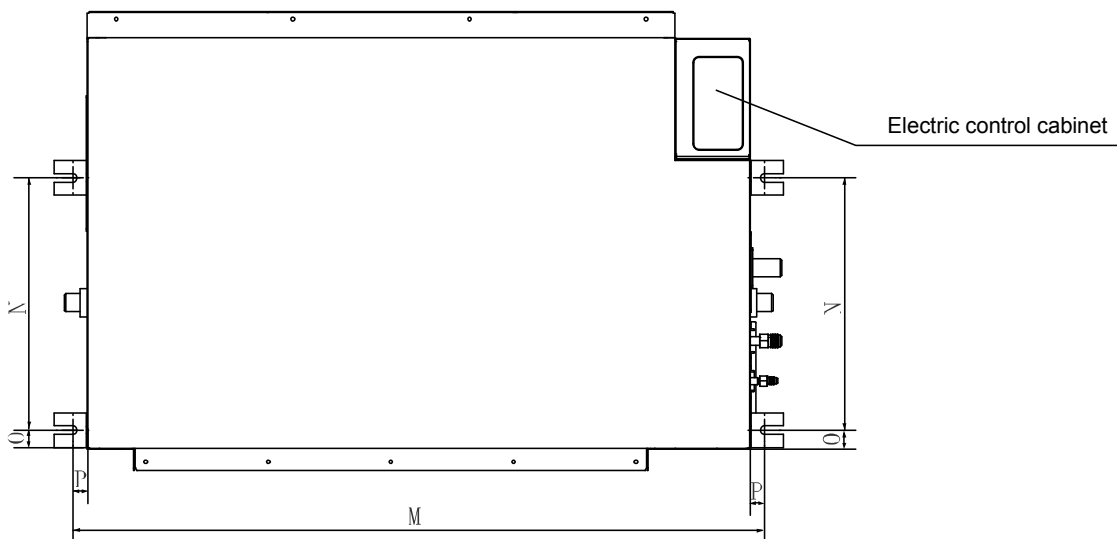
Air return opening size:



Position size of declensional ventilation opening:



Size of mounted lug:

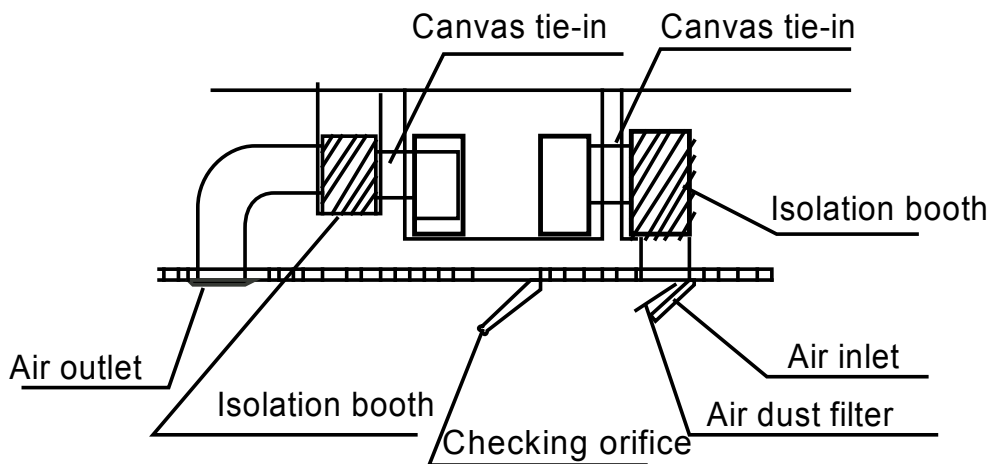


MODEL (MDV-D**T2/N1-*A5)	Outline dimension					Air outlet opening size		
	A	B	C	D	E	F	G	H
22~36	700	210	635	570	790	65	493	35
45~56	920	210	635	570	1010	65	713	35
71	1140	210	635	570	1230	65	933	35
80~112	1140	270	775	710	1230	65	933	35
140	1200	300	865	800	1290	80	968	40

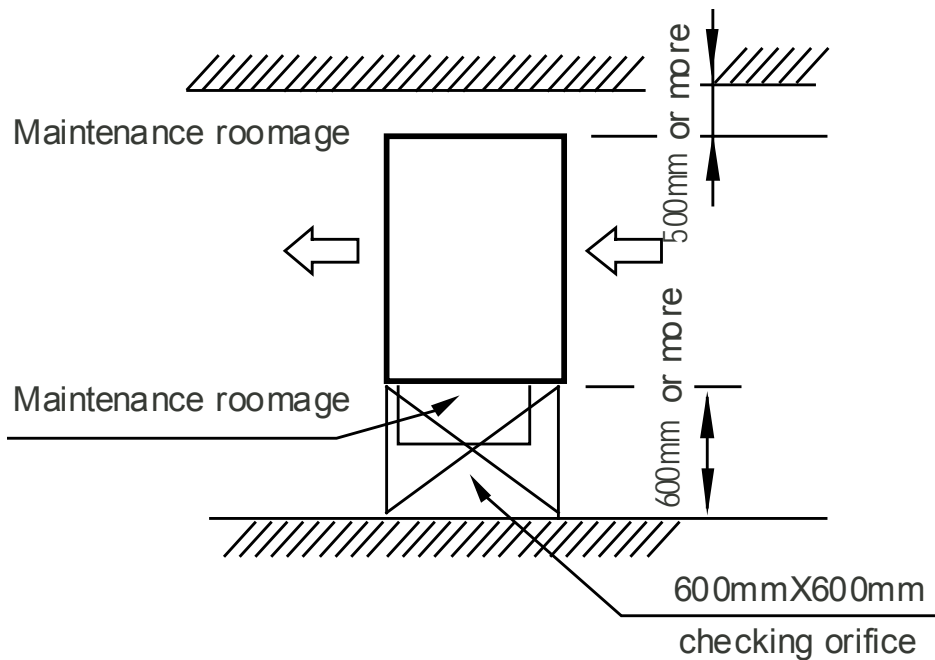
MODEL (MDV-D**T2/N1-*A5)	Air return opening size				Size of mounted lug			
	I	J	K	L	M	N	O	P
22~36	119	595	200	80	740	350	26	20
45~56	119	815	200	80	960	350	26	20
71	119	1035	200	75	1180	350	26	20
80~112	179	1035	260	20	1180	490	26	20
140	204	1094	288	45	1240	500	26	20

4. Service Space

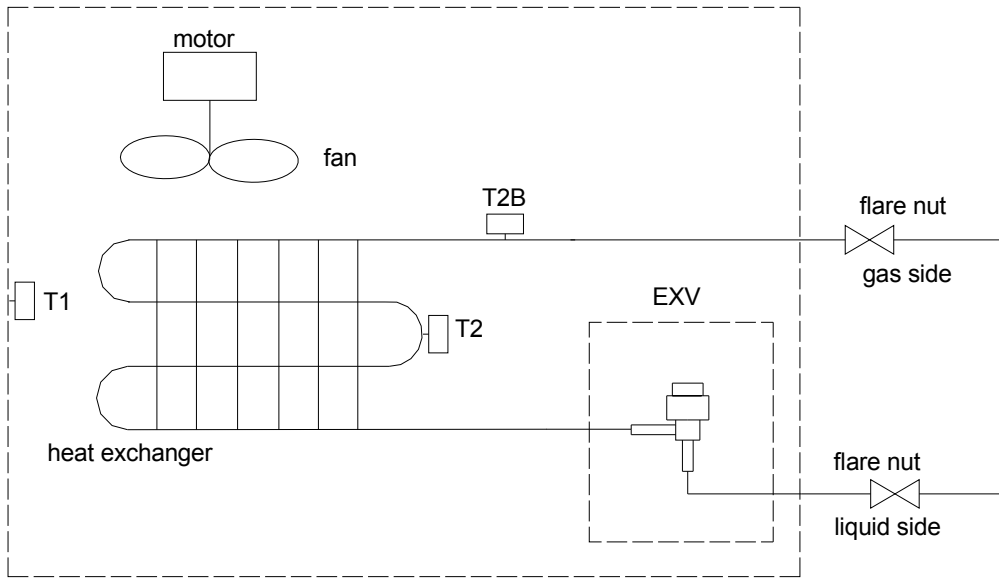
- Ensure the needed spaces for installation and maintenance.
- The ceiling is horizontal and its structure can endure the weight of the indoor unit.
- The outlet and the inlet are not impeded, and the influence of external air is the least.
- The air flow can reach throughout the room.
- The connecting pipe and drainpipe could be extracted out easily.
- There is no direct radiation from heaters.
- **Below is the recommended duct installation method:**



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

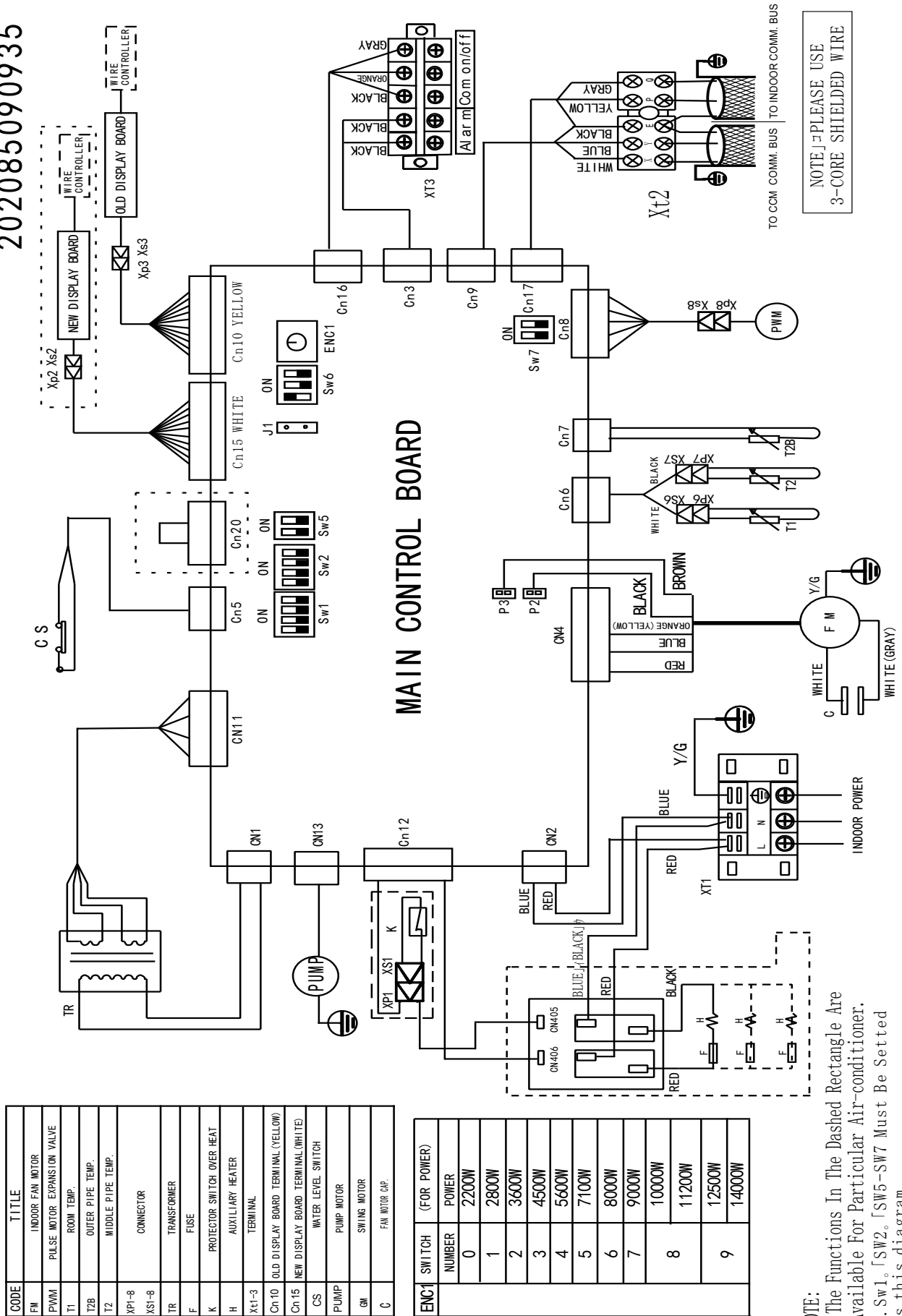


5. Piping Diagram



6. Wiring Diagram

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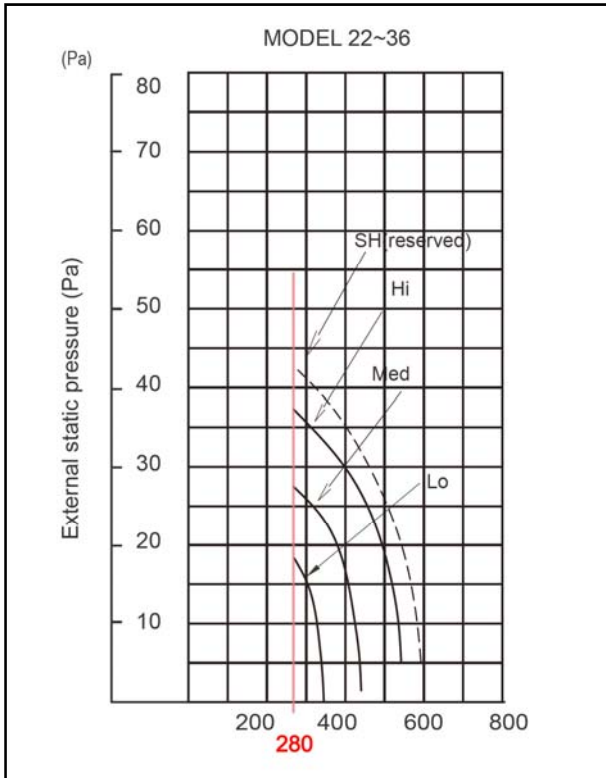
NOTE]-PLEASE USE 3-CORE SHIELDED WIRE

7. Fan Performance

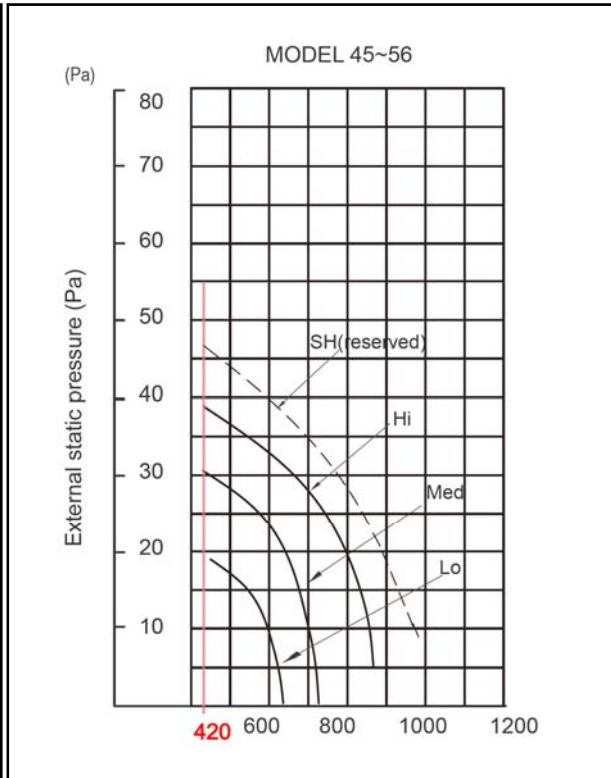
How to read the diagram

The vertical axis is the External Static Pressure (**Pa**) while the horizontal axis represents the Air Flow (**CMH**). The characteristic curve for the “Hi”, “Med” and “Lo” fan speed control, as well the reserved “SH” speed. The nameplate values are shown based on the “Hi” air flow. Therefore in the case of **22 T2** Type, the air flow is 530 CMH , while the External Static Pressure is 10Pa at “Hi” position. If 30Pa needed, the airflow is at “SH”.

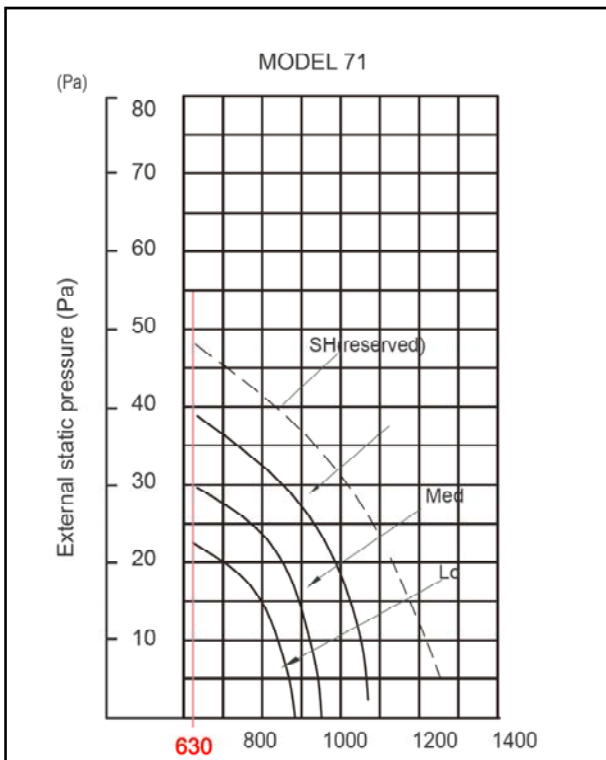
MDV-D22(28)(36)T2/N1-BA5



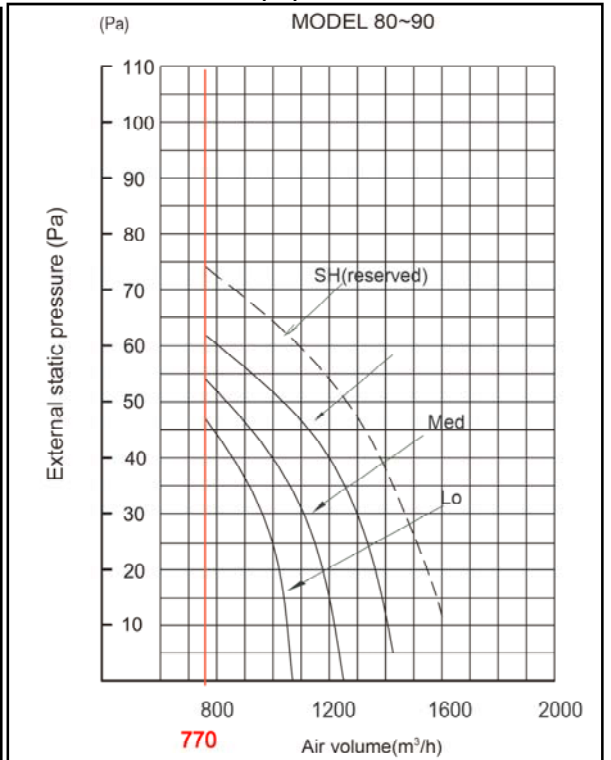
MDV-D45(56)T2/N1-BA5



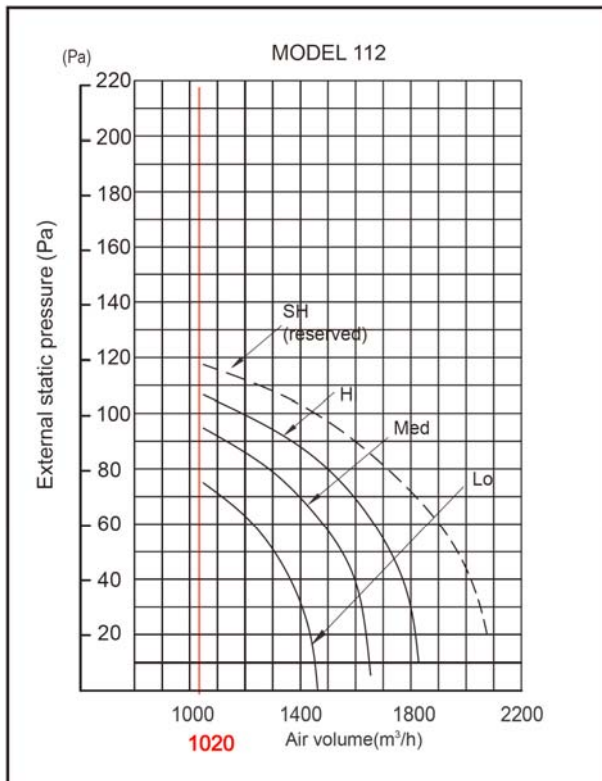
MDV-D71T2/N1-CA5



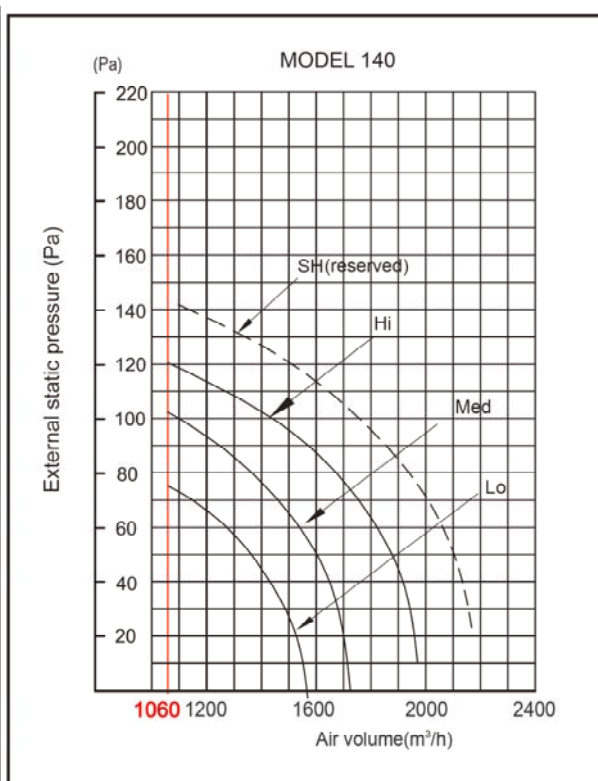
MDV-D80(90)T2/N1-BA5



MDV-D112T2/N1-BA5



MDV-D140T2/N1-BA5



- If the external static pressure is too great (due to long extension of duct, for example), the air flow volume may drop too low at each air outlet.
- So there's a **limit air flow volume** line for each speed and it is the min. airflow of this duct unit. At this flow volume, the fan achieves the max. ESP and indoor evaporator may be protected by low temperature.
- As well, there's a limit airflow volume, which is the max. value at each speed. It requests the unit to connect ducts for air inlet and outlet to prevent damage from the high temperature of motor/evaporator.
- **E.g.**for MDV-D140T2/N1-BA5 model, if at high speed, it is required to connect duct with the minimum.10Pa resistance. If set to "SH", it should be at least 20Pa duct. Similarly, it only allows max.100Pa duct resistance at "Hi" speed. If it needs 120Pa, it should be set to "SH".

8. Capacity Tables

8.1 Cooling

TC: Total capacity SC: Sensible capacity WB: Wet-bulb temperature DB: Dry-bulb temperature

Indoor Unit size (kW)	Outdoor temperature (°CDB)	Indoor temperature (°CWB/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
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
2.2	10.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.6	1.7	2.9	1.7
	12.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.6	1.7	2.8	1.6
	14.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.6	1.7	2.8	1.6
	16.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.6	1.7	2.8	1.6
	18.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.6	1.7	2.8	1.6
	20.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.6	1.7	2.7	1.5
	21.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.6	1.7	2.7	1.5
	23.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.5	1.6	2.7	1.5
	25.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.5	1.6	2.6	1.5
	27.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.5	1.6	2.6	1.5
	29.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.4	1.5	2.5	1.5
	31.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.4	1.5	2.5	1.5
	33.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.4	1.5	2.4	1.5
	35.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.3	1.5	2.4	1.5
	37.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.3	1.7	2.3	1.5	2.3	1.5
	39.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.2	1.6	2.3	1.5	2.3	1.5
42.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.2	1.6	2.3	1.5	2.3	1.5	
44.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.2	1.6	2.3	1.5	2.3	1.5	
46.0	1.5	1.4	1.8	1.5	2.1	1.6	2.2	1.6	2.2	1.6	2.3	1.5	2.3	1.5	
2.8	10.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.1	3.3	2.2	3.7	2.2
	12.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.1	3.3	2.2	3.6	2.1
	14.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.1	3.3	2.2	3.6	2.1
	16.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.1	3.3	2.2	3.5	2.1
	18.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.1	3.3	2.2	3.5	2.1
	20.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.1	3.3	2.2	3.4	2.1
	21.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.1	3.3	2.2	3.4	2.1
	23.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.1	3.3	2.1	3.4	2.1
	25.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.1	3.2	2.1	3.3	2.0
	27.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.1	3.2	2.1	3.3	2.0
	29.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.1	3.1	2.0	3.2	1.9
	31.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.1	3.1	2.0	3.2	1.9
	33.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	3.0	2.1	3.1	2.0	3.1	1.9
	35.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	2.9	2.0	3.0	2.0	3.1	1.9
	37.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	2.9	2.0	3.0	2.0	3.0	1.8
	39.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	2.9	2.0	3.0	2.1	3.0	1.9
42.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	2.9	2.0	3.0	2.1	3.0	1.9	
44.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	2.9	2.0	3.0	2.1	3.0	1.9	
46.0	1.9	1.7	2.3	1.9	2.6	2.1	2.8	2.1	2.9	2.0	3.0	2.1	3.0	1.9	
3.6	10.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.8	2.7	4.3	2.6	4.7	2.7
	12.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.8	2.7	4.3	2.6	4.7	2.7
	14.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.8	2.7	4.3	2.6	4.6	2.6
	16.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.8	2.7	4.3	2.6	4.5	2.6
	18.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.8	2.7	4.3	2.6	4.5	2.6
	20.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.8	2.7	4.3	2.6	4.4	2.5
	21.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.8	2.7	4.3	2.6	4.4	2.5
	23.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.8	2.7	4.1	2.5	4.3	2.4
	25.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.8	2.7	4.1	2.5	4.2	2.4
	27.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.8	2.7	4.0	2.4	4.2	2.4
	29.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.8	2.7	4.0	2.4	4.1	2.4
	31.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.8	2.7	4.2	2.8	4.1	2.4
	33.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.8	2.7	4.2	2.8	3.9	2.3
	35.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.8	2.7	4.2	2.8	3.9	2.3
	37.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	3.8	2.5	3.9	2.3
	39.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	3.8	2.5	3.8	2.3
42.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	3.8	2.5	3.8	2.3	
44.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	3.8	2.5	3.8	2.3	
46.0	2.5	2.1	2.9	2.3	3.4	2.5	3.6	2.6	3.7	2.6	3.8	2.5	3.8	2.3	
4.5	10.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	5.3	3.7	5.9	3.3

	12.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	5.3	3.7	5.9	3.3
	14.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	5.3	3.7	5.8	3.3
	16.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	5.3	3.7	5.6	3.2
	18.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	5.3	3.7	5.7	3.3
	20.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	5.3	3.7	5.7	3.3
	21.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	5.3	3.7	5.6	3.3
	23.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	5.3	3.7	5.5	3.2
	25.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	5.2	3.3	5.4	3.2
	27.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	5.1	3.2	5.2	3.0
	29.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	5.1	3.2	5.2	3.0
	31.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	5.0	3.1	5.1	2.9
	33.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	4.9	3.1	5.1	2.9
	35.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	4.8	3.0	5.0	2.9
	37.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.8	3.2	4.8	3.1	4.9	2.8
	39.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.6	3.1	4.7	3.1	4.8	2.8
	42.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.6	3.1	4.7	3.1	4.8	2.8
44.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.6	3.1	4.7	3.1	4.8	2.8	
46.0	3.1	2.6	3.7	2.8	4.2	3.1	4.5	3.2	4.6	3.1	4.7	3.1	4.8	2.8	
5.6	10.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	6.6	3.9	7.3	3.9
	12.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	6.6	3.9	7.2	3.8
	14.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	6.6	3.9	7.1	3.8
	16.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	6.6	3.9	7.0	3.7
	18.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	6.6	3.9	6.8	3.7
	20.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	6.6	3.9	6.7	3.6
	21.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	6.6	3.9	6.6	3.6
	23.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	6.6	3.9	6.6	3.5
	25.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	6.6	3.9	6.5	3.5
	27.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	6.4	3.8	6.4	3.5
	29.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	6.3	3.8	6.4	3.6
	31.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	6.2	3.7	6.2	3.4
	33.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	6.2	3.7	6.2	3.4
	35.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	6.0	3.6	6.0	3.4
	37.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.9	3.8	5.9	3.5	6.0	3.4
	39.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.7	3.7	5.8	3.5	6.0	3.4
42.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.7	3.7	5.8	3.5	6.0	3.4	
44.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.7	3.7	5.8	3.5	6.0	3.4	
46.0	3.9	3.0	4.6	3.3	5.3	3.6	5.6	3.7	5.7	3.7	5.8	3.5	6.0	3.4	
7.1	10.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.5	4.8	8.4	4.9	9.2	5.0
	12.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.5	4.8	8.4	4.9	9.1	4.9
	14.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.5	4.8	8.4	4.9	9.0	4.9
	16.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.5	4.8	8.4	4.9	8.9	4.8
	18.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.5	4.8	8.4	4.9	8.7	4.7
	20.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.5	4.8	8.4	4.9	8.5	4.6
	21.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.5	4.8	8.4	4.9	8.4	4.5
	23.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.5	4.8	8.4	4.9	8.3	4.5
	25.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.5	4.8	8.4	4.9	8.2	4.4
	27.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.5	4.8	8.1	4.7	8.2	4.5
	29.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.5	4.8	8.0	4.7	8.1	4.5
	31.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.5	4.8	7.9	4.6	7.8	4.3
	33.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.5	4.8	7.8	4.6	7.8	4.3
	35.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.5	4.8	7.6	4.5	7.7	4.2
	37.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.4	4.8	7.5	4.5	7.6	4.3
	39.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.2	4.7	7.4	4.4	7.6	4.3
42.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.2	4.7	7.4	4.4	7.6	4.3	
44.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.2	4.7	7.4	4.4	7.6	4.3	
46.0	4.9	3.9	5.8	4.3	6.7	4.7	7.1	4.9	7.2	4.7	7.4	4.4	7.6	4.3	
8.0	10.0	5.5	6.4	6.6	5.9	7.5	5.6	8.0	5.5	8.4	5.1	9.4	4.6	10.4	5.6
	12.0	5.5	6.4	6.6	5.9	7.5	5.6	8.0	5.5	8.4	5.1	9.4	4.6	10.2	5.5
	14.0	5.5	6.4	6.6	5.9	7.5	5.6	8.0	5.5	8.4	5.1	9.4	4.6	10.2	5.5
	16.0	5.5	6.4	6.6	5.9	7.5	5.6	8.0	5.5	8.4	5.1	9.4	4.6	10.0	5.4
	18.0	5.5	6.4	6.6	5.9	7.5	5.6	8.0	5.5	8.4	5.1	9.4	4.6	9.8	5.3
	20.0	5.5	6.4	6.6	5.9	7.5	5.6	8.0	5.5	8.4	5.1	9.4	4.6	9.6	5.2
	21.0	5.5	6.4	6.6	5.9	7.5	5.6	8.0	5.5	8.4	5.1	9.4	4.6	9.4	5.1
	23.0	5.5	6.4	6.6	5.9	7.5	5.6	8.0	5.5	8.4	5.1	9.4	4.6	9.4	5.1
25.0	5.5	6.4	6.6	5.9	7.5	5.6	8.0	5.5	8.4	5.1	9.4	4.6	9.3	5.0	

	27.0	5.5	6.4	6.6	5.9	7.5	5.6	8.0	5.5	8.4	5.1	9.1	4.6	9.2	5.1
	29.0	5.5	6.4	6.6	5.9	7.5	5.6	8.0	5.5	8.4	5.2	9.0	4.7	9.1	5.0
	31.0	5.5	6.4	6.6	5.9	7.5	5.6	8.0	5.5	8.4	5.2	8.9	4.7	8.8	4.8
	33.0	5.5	6.4	6.6	5.9	7.5	5.6	8.0	5.5	8.4	5.2	8.8	4.7	8.8	4.8
	35.0	5.5	6.4	6.6	5.9	7.5	5.6	8.0	5.5	8.4	5.2	8.6	4.7	8.6	4.8
	37.0	5.5	6.4	6.6	5.9	7.5	5.6	8.0	5.5	8.3	5.2	8.4	4.8	8.6	4.9
	39.0	5.5	6.4	6.6	5.9	7.5	5.6	8.0	5.5	8.1	5.2	8.3	4.8	8.6	4.9
	42.0	5.5	6.4	6.6	5.9	7.5	5.6	8.0	5.5	8.1	5.2	8.3	4.8	8.6	4.9
	44.0	5.5	6.4	6.6	5.9	7.5	5.6	8.0	5.5	8.1	5.2	8.3	4.8	8.6	4.9
46.0	5.5	6.4	6.6	5.9	7.5	5.6	8.0	5.5	8.1	5.2	8.3	4.8	8.6	4.9	
9.0	10.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.6	6.5	10.6	6.6	11.7	6.6
	12.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.6	6.5	10.6	6.6	11.5	6.5
	14.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.6	6.5	10.6	6.6	11.4	6.4
	16.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.6	6.5	10.6	6.6	11.3	6.3
	18.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.6	6.5	10.6	6.6	11.0	6.3
	20.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.6	6.5	10.6	6.6	10.8	6.2
	21.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.6	6.5	10.6	6.6	10.6	6.1
	23.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.6	6.5	10.6	6.6	10.5	6.0
	25.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.6	6.5	10.6	6.6	10.4	6.0
	27.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.6	6.5	10.3	6.4	10.4	5.9
	29.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.6	6.5	10.1	6.2	10.3	5.8
	31.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.6	6.5	10.0	6.2	9.9	5.7
	33.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.6	6.5	9.9	6.1	9.9	5.7
	35.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.5	6.5	9.6	6.0	9.7	5.7
	37.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.3	6.3	9.5	5.9	9.6	5.8
	39.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.2	6.2	9.4	5.8	9.6	5.8
42.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.2	6.2	9.4	5.8	9.6	5.8	
44.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.2	6.2	9.4	5.8	9.6	5.8	
46.0	6.2	5.3	7.3	5.8	8.4	6.3	9.0	6.4	9.2	6.2	9.4	5.8	9.6	5.8	
11.2	10.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.9	8.1	13.3	8.3	15.5	9.0
	12.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.9	8.1	13.3	8.3	14.4	8.4
	14.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.9	8.1	13.3	8.3	14.2	8.2
	16.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.9	8.1	13.3	8.3	14.1	8.2
	18.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.9	8.1	13.3	8.3	14.0	8.1
	20.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.9	8.1	13.3	8.3	13.9	8.1
	21.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.9	8.1	13.3	8.3	13.8	8.0
	23.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.9	8.1	13.1	8.1	13.7	7.9
	25.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.9	8.1	13.0	8.1	13.6	7.9
	27.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.9	8.1	12.9	8.0	13.4	7.8
	29.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.9	8.1	12.8	7.9	13.3	7.9
	31.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.9	8.1	12.7	7.8	12.8	7.5
	33.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.9	8.1	12.5	7.8	12.5	7.4
	35.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.8	8.0	12.4	7.7	12.3	7.3
	37.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.6	7.9	12.3	7.6	12.1	7.1
	39.0	7.7	6.4	9.1	7.1	10.5	7.7	11.2	7.8	11.4	7.8	12.2	7.6	11.9	7.1
42.0	7.7	6.6	9.1	7.2	10.4	7.8	11.2	8.0	11.4	7.8	11.6	7.2	12.0	7.2	
44.0	7.7	6.6	9.1	7.2	10.4	7.8	11.2	8.0	11.4	7.8	11.6	7.2	12.0	7.2	
46.0	7.7	6.6	9.1	7.2	10.4	7.8	11.2	8.0	11.4	7.8	11.6	7.2	12.0	7.2	
14.0	10.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.8	9.8	16.7	10.2	18.2	10.2
	12.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.8	9.8	16.7	10.2	17.9	10.0
	14.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.8	9.8	16.7	10.2	17.8	10.0
	16.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.8	9.8	16.7	10.2	17.5	9.8
	18.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.8	9.8	16.7	10.2	17.1	9.6
	20.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.8	9.8	16.7	10.2	16.8	9.4
	21.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.8	9.8	16.7	10.2	16.5	9.3
	23.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.8	9.8	16.4	10.2	16.4	9.2
	25.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.8	9.8	16.2	10.1	16.2	9.1
	27.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.8	9.8	16.1	10.0	16.1	9.2
	29.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.8	9.8	16.0	9.9	16.0	9.1
	31.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.8	9.8	15.8	9.8	15.4	8.8
	33.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.8	9.8	15.7	9.7	15.4	8.8
	35.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.7	9.7	15.1	9.4	15.1	8.8
	37.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.6	9.6	15.1	9.4	15.0	8.7
	39.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.3	9.4	14.6	9.2	15.0	8.8
42.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.3	9.4	14.6	9.2	15.0	8.8	

	44.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.3	9.4	14.6	9.2	15.0	8.8
	46.0	9.7	7.8	11.3	8.6	13.2	9.6	14.0	9.8	14.3	9.4	14.6	9.2	15.0	8.8

8.2 Heating

TC: Total capacity **WB:** Wet-bulb temperature **DB:** Dry-bulb temperature

Indoor Unit size (kW)	Outdoor temperature (°C)		Indoor temperature (°C DB)					
			16.00	18.00	20.00	21.00	22.00	24.00
	WB	DB	TC kW	TC kW	TC kW	TC kW	TC kW	TC kW
2.2	-20.00	-19.80	1.46	1.46	1.46	1.46	1.46	1.46
	-19.00	-18.80	1.56	1.56	1.56	1.56	1.56	1.56
	-17.00	-16.70	1.64	1.64	1.64	1.64	1.64	1.64
	-15.00	-14.70	1.69	1.69	1.69	1.69	1.69	1.69
	-13.00	-12.60	1.79	1.79	1.79	1.79	1.79	1.79
	-11.00	-10.50	1.82	1.85	1.85	1.85	1.85	1.85
	-10.00	-9.50	1.90	1.90	1.90	1.90	1.90	1.90
	-9.10	-8.50	1.95	1.95	1.95	1.95	1.95	1.95
	-7.60	-7.00	1.98	1.98	1.98	1.98	1.98	1.98
	-5.60	-5.00	2.05	2.05	2.05	2.05	2.05	2.05
	-3.70	-3.00	2.16	2.16	2.16	2.16	2.16	2.16
	-0.70	0.00	2.31	2.31	2.31	2.31	2.31	2.18
	2.20	3.00	2.44	2.44	2.44	2.44	2.39	2.18
	4.10	5.00	2.52	2.52	2.52	2.52	2.39	2.18
	6.00	7.00	2.60	2.60	2.60	2.52	2.39	2.18
	7.90	9.00	2.68	2.68	2.60	2.52	2.39	2.18
9.80	11.00	2.76	2.76	2.60	2.52	2.39	2.18	
11.80	13.00	2.86	2.81	2.60	2.52	2.39	2.18	
13.70	15.00	2.94	2.81	2.60	2.52	2.39	2.18	
2.8	-20.00	-19.80	1.79	1.79	1.79	1.79	1.79	1.79
	-19.00	-18.80	1.92	1.92	1.92	1.92	1.92	1.92
	-17.00	-16.70	2.02	2.02	2.02	2.02	2.02	2.02
	-15.00	-14.70	2.02	2.02	2.02	2.02	2.02	2.02
	-13.00	-12.60	2.14	2.14	2.14	2.14	2.14	2.14
	-11.00	-10.50	2.24	2.24	2.24	2.24	2.24	2.24
	-10.00	-9.50	2.34	2.34	2.34	2.34	2.34	2.34
	-9.10	-8.50	2.40	2.40	2.40	2.40	2.40	2.40
	-7.60	-7.00	2.43	2.43	2.43	2.43	2.43	2.43
	-5.60	-5.00	2.53	2.53	2.53	2.53	2.53	2.53
	-3.70	-3.00	2.66	2.66	2.66	2.66	2.66	2.66
	-0.70	0.00	2.85	2.85	2.85	2.85	2.85	2.69
	2.20	3.00	3.01	3.01	3.01	3.01	2.94	2.69
	4.10	5.00	3.10	3.10	3.10	3.10	2.94	2.69
	6.00	7.00	3.20	3.20	3.20	3.10	2.94	2.69
	7.90	9.00	3.30	3.30	3.20	3.10	2.94	2.69
9.80	11.00	3.39	3.39	3.20	3.10	2.94	2.69	
11.80	13.00	3.52	3.46	3.20	3.10	2.94	2.69	
13.70	15.00	3.62	3.46	3.20	3.10	2.94	2.69	
3.6	-20.00	-19.80	2.24	2.24	2.24	2.24	2.24	2.24
	-19.00	-18.80	2.40	2.40	2.40	2.40	2.40	2.4
	-17.00	-16.70	2.52	2.52	2.52	2.52	2.52	2.52
	-15.00	-14.70	2.60	2.60	2.60	2.60	2.60	2.60
	-13.00	-12.60	2.68	2.68	2.68	2.68	2.68	2.68
	-11.00	-10.50	2.80	2.80	2.80	2.80	2.80	2.80
	-10.00	-9.50	2.92	2.92	2.92	2.92	2.92	2.92
	-9.10	-8.50	3.00	3.00	3.00	3.00	3.00	3.00
	-7.60	-7.00	3.04	3.04	3.04	3.04	3.04	3.04
	-5.60	-5.00	3.16	3.16	3.16	3.16	3.16	3.16
	-3.70	-3.00	3.32	3.32	3.32	3.32	3.32	3.32
	-0.70	0.00	3.56	3.56	3.56	3.56	3.56	3.36
	2.20	3.00	3.76	3.76	3.76	3.76	3.68	3.36
	4.10	5.00	3.88	3.88	3.88	3.88	3.68	3.36
	6.00	7.00	4.00	4.00	4.00	3.88	3.68	3.36
	7.90	9.00	4.12	4.12	4.00	3.88	3.68	3.36
9.80	11.00	4.24	4.24	4.00	3.88	3.68	3.36	
11.80	13.00	4.4	4.32	4.00	3.88	3.68	3.36	
13.70	15.00	4.52	4.32	4.00	3.88	3.68	3.36	
4.5	-20.00	-19.80	2.80	2.80	2.80	2.80	2.80	2.80
	-19.00	-18.80	3.00	3.00	3.00	3.00	3.00	3.00
	-17.00	-16.70	3.15	3.15	3.15	3.15	3.15	3.15

	-15.00	-14.70	3.25	3.25	3.25	3.25	3.25	3.25
	-13.00	-12.60	3.35	3.35	3.35	3.35	3.35	3.35
	-11.00	-10.50	3.5	3.5	3.5	3.5	3.5	3.5
	-10.00	-9.50	3.65	3.65	3.65	3.65	3.65	3.65
	-9.10	-8.50	3.75	3.75	3.75	3.75	3.75	3.75
	-7.60	-7.00	3.80	3.80	3.80	3.80	3.80	3.80
	-5.60	-5.00	3.95	3.95	3.95	3.95	3.95	3.95
	-3.70	-3.00	4.15	4.15	4.15	4.15	4.15	4.15
	-0.70	0.00	4.45	4.45	4.45	4.45	4.45	4.20
	2.20	3.00	4.70	4.70	4.70	4.70	4.60	4.20
	4.10	5.00	4.85	4.85	4.85	4.85	4.60	4.20
	6.00	7.00	5.00	5.00	5.00	4.85	4.60	4.20
	7.90	9.00	5.15	5.15	5.00	4.85	4.60	4.20
	9.80	11.00	5.30	5.3	5.00	4.85	4.60	4.20
	11.80	13.00	5.50	5.4	5.00	4.85	4.60	4.20
13.70	15.00	5.65	5.4	5.00	4.85	4.60	4.20	
5.6	-20.00	-19.80	3.53	3.53	3.53	3.53	3.53	3.53
	-19.00	-18.80	3.78	3.78	3.78	3.78	3.78	3.78
	-17.00	-16.70	3.97	3.97	3.97	3.97	3.97	3.97
	-15.00	-14.70	4.10	4.10	4.10	4.10	4.10	4.10
	-13.00	-12.60	4.22	4.22	4.22	4.22	4.22	4.22
	-11.00	-10.50	4.41	4.41	4.41	4.41	4.41	4.41
	-10.00	-9.50	4.60	4.60	4.60	4.60	4.60	4.60
	-9.10	-8.50	4.73	4.73	4.73	4.73	4.73	4.73
	-7.60	-7.00	4.79	4.79	4.79	4.79	4.79	4.79
	-5.60	-5.00	4.98	4.98	4.98	4.98	4.98	4.98
	-3.70	-3.00	5.23	5.23	5.23	5.23	5.23	5.23
	-0.70	0.00	5.61	5.61	5.61	5.61	5.61	5.29
	2.20	3.00	5.92	5.92	5.92	5.92	5.80	5.29
	4.10	5.00	6.11	6.11	6.11	6.11	5.80	5.29
	6.00	7.00	6.3	6.3	6.30	6.11	5.80	5.29
7.90	9.00	6.49	6.49	6.30	6.11	5.80	5.29	
9.80	11.00	6.68	6.68	6.30	6.11	5.80	5.29	
11.80	13.00	6.93	6.80	6.30	6.11	5.80	5.29	
13.70	15.00	7.12	6.80	6.30	6.11	5.80	5.29	
7.1	-20.00	-19.80	4.48	4.48	4.48	4.48	4.48	4.48
	-19.00	-18.80	4.80	4.80	4.80	4.80	4.80	4.80
	-17.00	-16.70	5.04	5.04	5.04	5.04	5.04	5.04
	-15.00	-14.70	5.20	5.20	5.20	5.20	5.20	5.20
	-13.00	-12.60	5.36	5.36	5.36	5.36	5.36	5.36
	-11.00	-10.50	5.60	5.60	5.60	5.60	5.60	5.60
	-10.00	-9.50	5.84	5.84	5.84	5.84	5.84	5.84
	-9.10	-8.50	6.00	6.00	6.00	6.00	6.00	6.00
	-7.60	-7.00	6.08	6.08	6.08	6.08	6.08	6.08
	-5.60	-5.00	6.32	6.32	6.32	6.32	6.32	6.32
	-3.70	-3.00	6.64	6.64	6.64	6.64	6.64	6.64
	-0.70	0.00	7.12	7.12	7.12	7.12	7.12	6.72
	2.20	3.00	7.52	7.52	7.52	7.52	7.36	6.72
	4.10	5.00	7.76	7.76	7.76	7.76	7.36	6.72
	6.00	7.00	8.00	8.00	8.00	7.76	7.36	6.72
7.90	9.00	8.24	8.24	8.00	7.76	7.36	6.72	
9.80	11.00	8.48	8.48	8.00	7.76	7.36	6.72	
11.80	13.00	8.8	8.64	8.00	7.76	7.36	6.72	
13.70	15.00	9.04	8.64	8.00	7.76	7.36	6.72	
8.0	-20.00	-19.80	5.04	5.04	5.04	5.04	5.04	5.04
	-19.00	-18.80	5.40	5.40	5.40	5.40	5.40	5.40
	-17.00	-16.70	5.67	5.67	5.67	5.67	5.67	5.67
	-15.00	-14.70	5.85	5.85	5.85	5.85	5.85	5.85
	-13.00	-12.60	6.03	6.03	6.03	6.03	6.03	6.03
	-11.00	-10.50	6.30	6.30	6.30	6.30	6.30	6.30
	-10.00	-9.50	6.57	6.57	6.57	6.57	6.57	6.57
	-9.10	-8.50	6.75	6.75	6.75	6.75	6.75	6.75
	-7.60	-7.00	6.84	6.84	6.84	6.84	6.84	6.84
	-5.60	-5.00	7.11	7.11	7.11	7.11	7.11	7.11
-3.70	-3.00	7.47	7.47	7.47	7.47	7.47	7.47	

	-0.70	0.00	8.01	8.01	8.01	8.01	8.01	7.56
	2.20	3.00	8.46	8.46	8.46	8.46	8.28	7.56
	4.10	5.00	8.73	8.73	8.73	8.73	8.28	7.56
	6.00	7.00	9.00	9.00	9.00	8.73	8.28	7.56
	7.90	9.00	9.27	9.27	9.00	8.73	8.28	7.56
	9.80	11.00	9.54	9.54	9.00	8.73	8.28	7.56
	11.80	13.00	9.9	9.72	9.00	8.73	8.28	7.56
	13.70	15.00	10.17	9.72	9.00	8.73	8.28	7.56
9.0	-20.00	-19.80	5.6	5.04	5.60	5.60	5.60	5.60
	-19.00	-18.80	6.00	5.40	6.00	6.00	6.00	6.00
	-17.00	-16.70	6.30	6.30	6.30	6.30	6.30	6.30
	-15.00	-14.70	6.50	6.50	6.50	6.50	6.50	6.50
	-13.00	-12.60	6.70	6.70	6.70	6.70	6.70	6.70
	-11.00	-10.50	7.00	7.00	7.00	7.00	7.00	7.00
	-10.00	-9.50	7.30	7.30	7.30	7.30	7.30	7.30
	-9.10	-8.50	7.50	7.50	7.50	7.50	7.50	7.50
	-7.60	-7.00	7.60	7.60	7.60	7.60	7.60	7.60
	-5.60	-5.00	7.90	7.90	7.90	7.90	7.90	7.90
	-3.70	-3.00	8.30	8.30	8.3	8.30	8.30	8.30
	-0.70	0.00	8.90	8.90	8.90	8.90	8.90	8.40
	2.20	3.00	9.40	9.40	9.40	9.40	9.20	8.40
	4.10	5.00	9.70	9.70	9.70	9.70	9.20	8.40
	6.00	7.00	10.00	10.00	10.00	9.70	9.20	8.40
	7.90	9.00	10.30	10.30	10.00	9.70	9.20	8.40
9.80	11.00	10.60	10.60	10.00	9.70	9.20	8.40	
11.80	13.00	11.00	10.80	10.00	9.70	9.20	8.40	
13.70	15.00	11.30	10.80	10.00	9.70	9.20	8.40	
11.2	-20.00	-19.80	7.00	7.00	7.00	7.00	7.00	7.00
	-19.00	-18.80	7.50	7.50	7.50	7.50	7.50	7.50
	-17.00	-16.70	7.88	7.88	7.88	7.88	7.88	7.88
	-15.00	-14.70	8.13	8.13	8.13	8.13	8.13	8.13
	-13.00	-12.60	8.38	8.38	8.38	8.38	8.38	8.38
	-11.00	-10.50	8.75	8.75	8.75	8.75	8.75	8.75
	-10.00	-9.50	9.13	9.13	9.13	9.13	9.13	9.13
	-9.10	-8.50	9.38	9.38	9.38	9.38	9.38	9.38
	-7.60	-7.00	9.50	9.50	9.50	9.50	9.50	9.50
	-5.60	-5.00	9.88	9.88	9.88	9.88	9.88	9.88
	-3.70	-3.00	10.38	10.38	10.38	10.38	10.38	10.38
	-0.70	0.00	11.13	11.13	11.13	11.13	11.13	10.50
	2.20	3.00	11.75	11.75	11.75	11.75	11.50	10.50
	4.10	5.00	12.13	12.13	12.13	12.13	11.50	10.50
	6.00	7.00	12.50	12.50	12.50	12.13	11.50	10.50
	7.90	9.00	12.88	12.88	12.5	12.13	11.50	10.50
9.80	11.00	13.25	13.25	12.5	12.13	11.50	10.50	
11.80	13.00	13.75	13.5	12.5	12.13	11.50	10.50	
13.70	15.00	14.13	13.5	12.5	12.13	11.50	10.50	
14.0	-20.00	-19.80	8.68	8.68	8.68	8.68	8.68	8.68
	-19.00	-18.80	9.30	9.30	9.30	9.30	9.30	9.30
	-17.00	-16.70	9.77	9.77	9.77	9.77	9.77	9.77
	-15.00	-14.70	10.08	10.08	10.08	10.08	10.08	10.08
	-13.00	-12.60	10.40	10.40	10.40	10.40	10.40	10.40
	-11.00	-10.50	10.90	10.90	10.90	10.90	10.90	10.90
	-10.00	-9.50	11.30	11.30	11.30	11.30	11.30	11.30
	-9.10	-8.50	11.60	11.60	11.60	11.60	11.60	11.60
	-7.60	-7.00	11.80	11.80	11.80	11.80	11.80	11.80
	-5.60	-5.00	12.30	12.30	12.30	12.30	12.30	12.30
	-3.70	-3.00	12.90	12.90	12.90	12.90	12.90	12.90
	-0.70	0.00	13.80	13.80	13.80	13.80	13.80	13.00
	2.20	3.00	14.60	14.60	14.60	14.60	14.30	13.00
	4.10	5.00	15.00	15.00	15.00	15.00	14.30	13.00
	6.00	7.00	15.50	15.50	15.50	15.00	14.30	13.00
	7.90	9.00	16.00	16.00	15.50	15.00	14.30	13.00
9.80	11.00	16.40	16.40	15.50	15.00	14.30	13.00	
11.80	13.00	17.10	16.70	15.50	15.00	14.30	13.00	
13.70	15.00	17.50	16.70	15.50	15.00	14.30	13.00	

9. Electric Characteristics

Model	Indoor Unit				Power Supply		IFM	
	Hz	Voltage	Min.	Max.	MCA	MFA	KW	FLA
MDV-D22T2/N1-BA5	50	220-240	198	264	0.28	5	0.027	0.28
MDV-D28T2/N1-BA5	50	220-240	198	264	0.28	5	0.027	0.28
MDV-D36T2/N1-BA5	50	220-240	198	264	0.28	5	0.027	0.28
MDV-D45T2/N1-BA5	50	220-240	198	264	0.6	5	0.107	0.48
MDV-D56T2/N1-BA5	50	220-240	198	264	0.6	5	0.107	0.48
MDV-D71T2/N1-CA5	50	220-240	198	264	0.8	5	0.07	0.64
MDV-D80T2/N1-BA5	50	220-240	198	264	1.25	5	0.227	1
MDV-D90T2/N1-BA5	50	220-240	198	264	1.25	5	0.227	1
MDV-D112T2/N1-BA5	50	220-240	198	264	1.9	5	0.393	1.51
MDV-D140T2/N1-BA5	50	220-240	198	264	2	5	0.355	1.55

Remark:

MCA: Min. Current Amps. (A)

MFA: Max. Fuse Amps. (A)

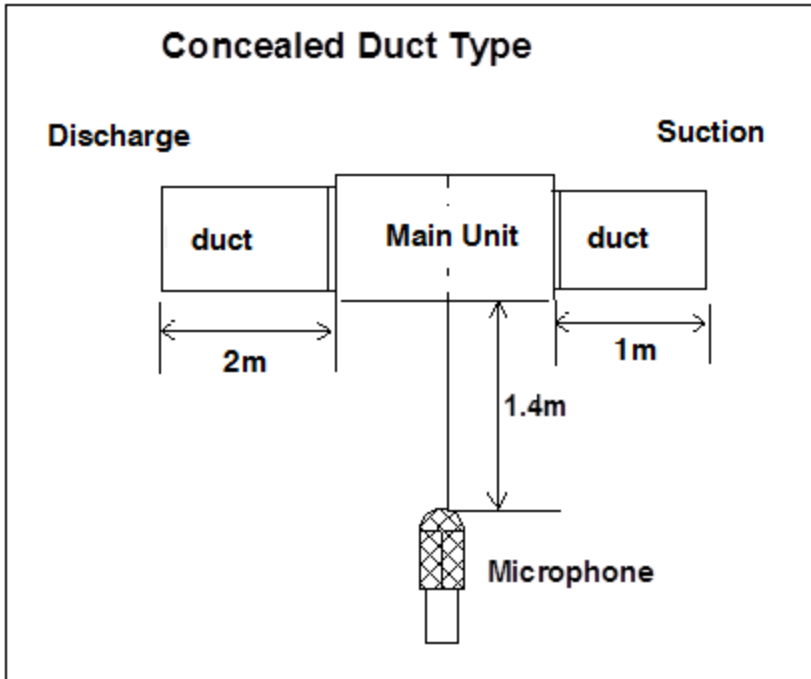
KW: Fan Motor Rated Output (kW)

FLA: Full Load Amps. (A)

IFM:Indoor Fan Motor

10. Noise Levels

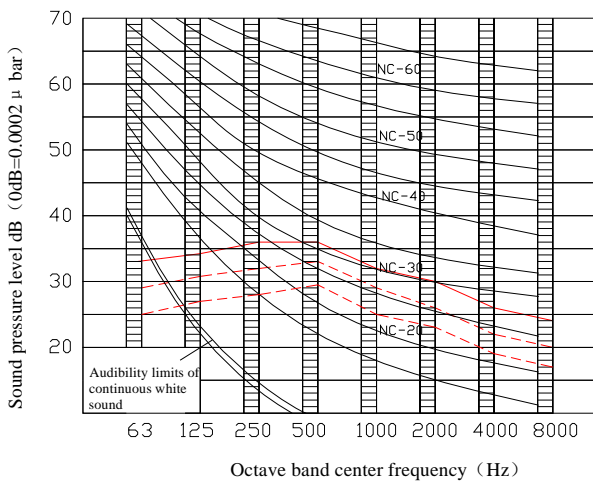
10.1 Test condition



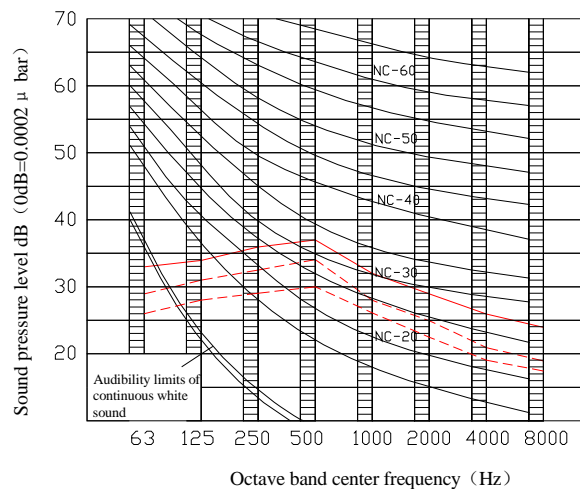
10.2 Test value

Model	Noise test value dB(A)		
	Hi	Mid	Low
MDV-D22T2/N1-BA5	38	35	32
MDV-D28T2/N1-BA5	38	35	32
MDV-D36T2/N1-BA5	40	38	36
MDV-D45T2/N1-BA5	41	38.9	36
MDV-D56T2/N1-BA5	41	38.9	36
MDV-D71T2/N1-CA5	42	40	36
MDV-D80T2/N1-BA5	45.4	39.8	37
MDV-D90T2/N1-BA5	45.4	39.8	37
MDV-D112T2/N1-BA5	48.0	41.9	38
MDV-D140T2/N1-BA5	47.7	43.2	39

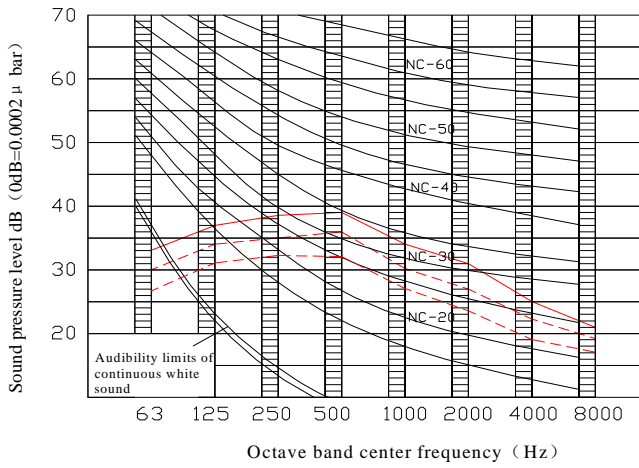
MDV-D22(28)T2/N1-BA5



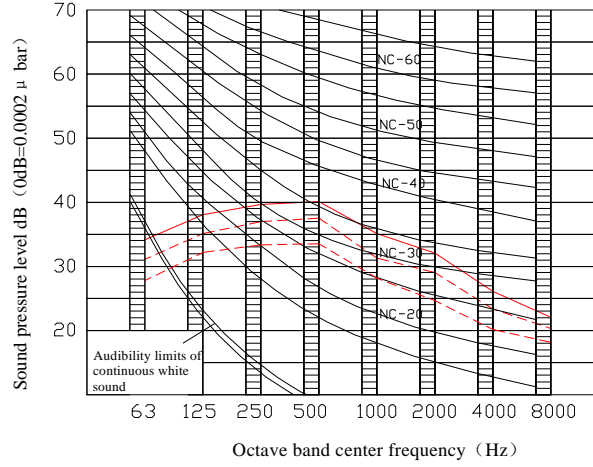
MDV-D36T2/N1-BA5



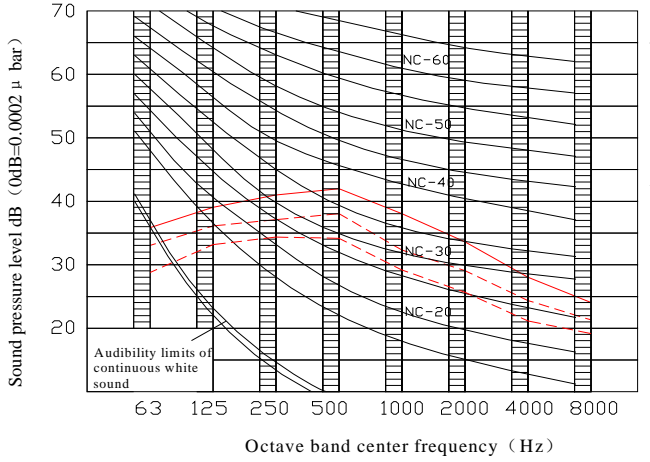
MDV-D45(56)T2/N1-BA5



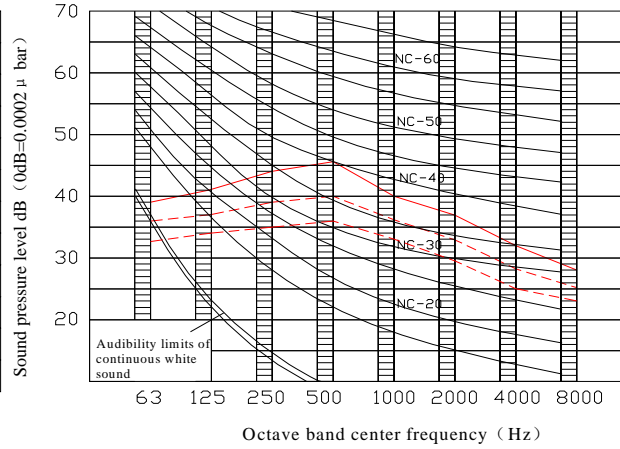
MDV-D71T2/N1-CA5



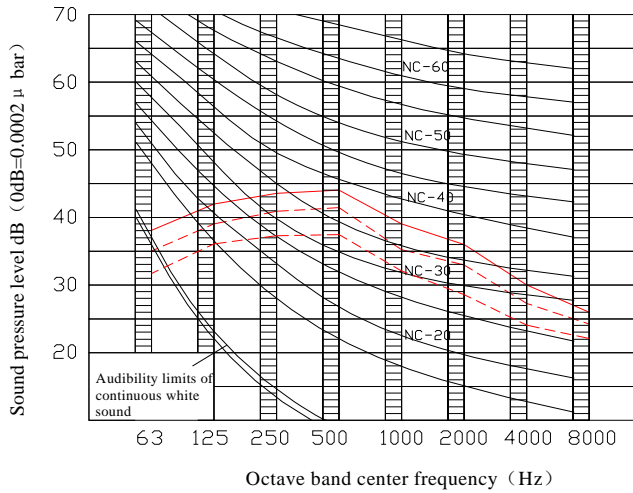
MDV-D80(90)T2/N1-BA5



MDV-D112T2/N1-BA5



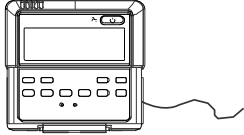






MDV-D140T2/N1-BA5



11. Accessories

11.1 Standard accessories

Name	Quantity	Shape	Usage
Installation manual	1	/	/
Pipe insulation material	2		Heat insulation
Adhesive tape for seal	2		To connect drain pipe
Wired controller	1		/
Network matching wire	1		The indoor unit which at the terminal of communication system should connect a impedance between port P and port Q
Water outlet joint	1		For drainage
Clasp	1		Chucking the joint which connect the drain hose and the outlet of indoor unit
Signal receiver display board (already fixed inside of the control box)	1		Receive signal

11.2 Optional accessories

Name	Model	Code	Usage
Wireless remote controller	RM05/BG(T)E-A	203355091418	Which can be used to set the indoor unit's address