

High static pressure duct unit

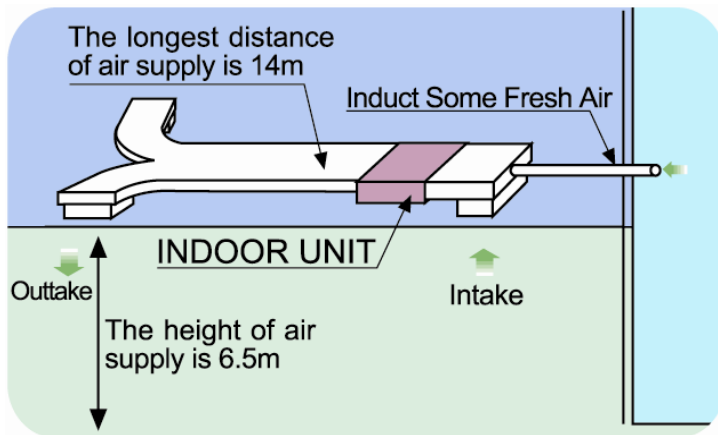
1. Feature	113
2. Specifications	115
3. Dimension	118
4. Service Space	124
5. Piping Diagram	125
6. Wiring Diagram	126
7. Fan Performance	129
8. Capacity Tables	131
9. Electric Characteristics	139
10. Noise Levels	140
11. Accessories	142

1. Feature

1.1 High static pressure allows flexible duct design

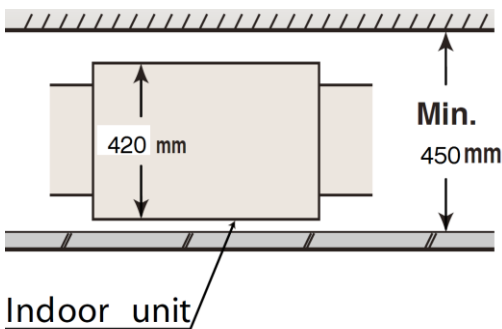


1.1.1 External static pressure of Indoor Unit can be up to 196 Pa(71~160 model) (220Pa for 20KW and up), which allows extensive duct work for flexible applications. so the cool air can be delivered to every indoor corner even in a super-high ceiling.



1.1.2 The max. distance of air supply is about 14m, the height of air supply is about 6.5m.

1.1.3 With 420mm (71~160 model) thickness body, not occupied much ceiling space which is 450mm only.



1.2 Wide capacity range

— The capacity ranges from 7.1KW to 28.0KW, totally nine models.

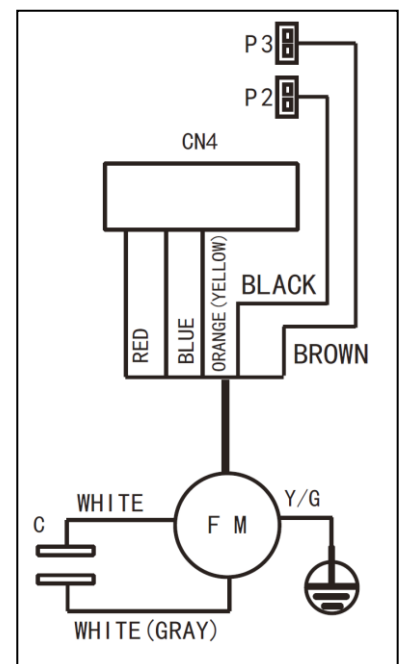
1.3 Four speed fan motor(Medium Hi speed as an option) * (for 71~160 model)

1.4 Two external static pressure settings for added flexibility

just exchange the wiring connection of 'MH' and 'Me'. P2 and P3 as the right side diagram. *(for 71~160 model)

1.5 Convenient installation

1.5.1 The EXV is fixed inside the indoor unit ((for 71~160 model), no



need extra connection.

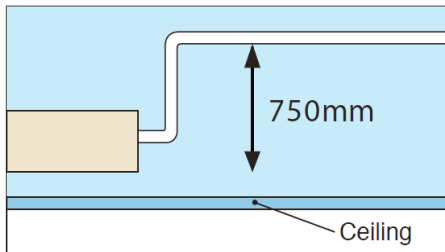
1.5.2 Standard filter with aluminum frame, which is removable downward from bottom.

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 Optional drain pump * (for 71~160 model)

Drain pump is equipped as optional accessory with 750 mm lift.



1.5.6 Easy to access the motor and do the maintenance. Possible to replace the motor without removing the whole unit.

1.6 Flexible control and convenient for maintenance

1.6.1 Standard Wired remote controller KJR-12B (FOLLOW ME), and wireless remote controller R05 is as an option.

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

1.6.4 Standard functional port such as Remote On/Off Dry contact.

2. Specifications

Model			MDV-D71T1/N1-B	MDV-D80T1/N1-B	MDV-D90T1/N1-B
Power supply		V- Ph-Hz	220-240V~, 1Ph, 50Hz		
Cooling	Capacity	kW	7.1	8	9
	Input	W	263	263	423
	Rated current	A	1.1	1.1	1.8
Heating	Capacity	kW	8	9	10
	Input	W	263	263	423
	Rated current	A	1.1	1.1	1.8
Max. input consumption		W	269	269	437
Max. current		A	1.23	1.23	1.8
Indoor fan motor	Model		YDK100-4X-2	YDK100-4X-2	YDK160-4C
	Type		AC Motor		
	Brand		YongAn	YongAn	WELLING
	Input	W	247	247	391
	Capacitor	μF	12	12	10
	Speed (hi/mid/lo)	r/min	975/923//847	975/923//847	1282/1213/1035
Indoor coil	Number of rows		2	2	3
	Tube pitch(a)* row pitch(b)	mm	25.4×22	25.4×22	25.4×22
	Fin spacing	mm	1.5	1.5	1.6
	Fin type		Hydrophilic aluminum		
	Tube outside diameter and type	mm	Φ9.52 inner groove tube		
	length * height * width	mm	700*356×44	700*356×44	700*356×66
	Number of circuits		3	3	3
Indoor air flow (H/M/L)		m ³ /h	1440/1359/1236	1446/1346/1221	1936/1821/1511
Indoor external static pressure (Hi)		Pa	30~ 196	30~ 196	30~ 196
Indoor noise level (Hi/Mid/Lo)		dB(A)	48/46/44.5	48/46/44.5	52/49/47
Indoor unit	Dimension (W×H×D)	mm	952*420*690	952*420*690	952*420*690
	Packing (W×H×D)	mm	1102*450*768	1102*450*768	1102*450*768
	Net/Gross weight	kg	45/50	45/50	46.5/52.4
Refrigerant type			R410A		
Throttle	Type		EXV		
	Model		BD20FKS, (Winding: DZF20XQ-1000-XHP-6)		
Design pressure (Hi/Lo)		MPa	4.4/2.6		
Refrigerant piping	Liquid / Gas	mm	Φ9.53/ Φ15.9	Φ9.53/ Φ15.9	Φ9.53/ 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			Φ32 (ID Φ25, OU Φ32)		
Controller			Wired controller KJR-10B/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 ref. 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 ref. Piping: 8m(horizontal)

Model			MDV-D112T1/N1-B	MDV-D140T1/N1-B	MDV-D160T1/N1-B
Power supply		V- Ph-Hz	220-240V~, 1Ph, 50Hz		
Cooling	Capacity	kW	11.2	14	16
	Input	W	524	627	832
	Rated current	A	2.3	2.7	3.6
Heating	Capacity	kW	12.5	16	18
	Input	W	524	627	832
	Rated current	A	2.3	2.7	3.6
Max. input consumption		W	528	660	891
Max. current		A	2.3	2.85	4.77
Indoor fan motor	Model		YSK200-4F-1	YSK300-4C-1	YSK400-4C-2
	Type		AC MOTOR		
	Brand		WELLING	YongAn	YongAn
	Input	W	490	588	798
	Capacitor	μF	15	12	15
	Speed (hi/mid/lo)	r/min	1000/930/774	956/853/697	1087/953/836
Indoor coil	Number of rows		3	4	4
	Tube pitch(a)* row pitch(b)	mm	25.4×22	25.4×22	25.4×22
	Fin spacing	mm	1.6	1.6	1.6
	Fin type		Hydrophilic aluminum		
	Tube outside diameter and type	mm	Φ9.52 inner groove tube		
	length * height * width	mm	700*356×66	996*355.6×88	996*355.6×88
	Number of circuits		7	7	7
Indoor air flow (H/M/L)		m ³ /h	2117/1950/1544	2988/2598/2229	3678/3046/2767
Indoor external static pressure (Hi)		Pa	30~ 196	30~ 196	30~ 196
Indoor noise level (Hi/Mid/Lo)		dB(A)	52/49/47	53/50/48	54/52/50
Indoor unit	Dimension (W×H×D)	mm	952*420*690	1300*420*690	1300*420*690
	Packing (W×H×D)	mm	1102*450*768	1430*450*768	1430*450*768
	Net/Gross weight	kg	50.6/56	70/77.5	70/77.5
Refrigerant type			R410A		
Throttle	Type		EXV		
	Model		BD20FKS, (Winding: DZF20XQ-1000-XHP-6)		
Design pressure		MPa	4.4/2.6		
Refrigerant piping	Liquid / Gas	mm	Φ9.53/ Φ15.9	Φ9.53/ Φ15.9	Φ9.53/ 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			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 ref. 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 ref. Piping: 8m(horizontal)

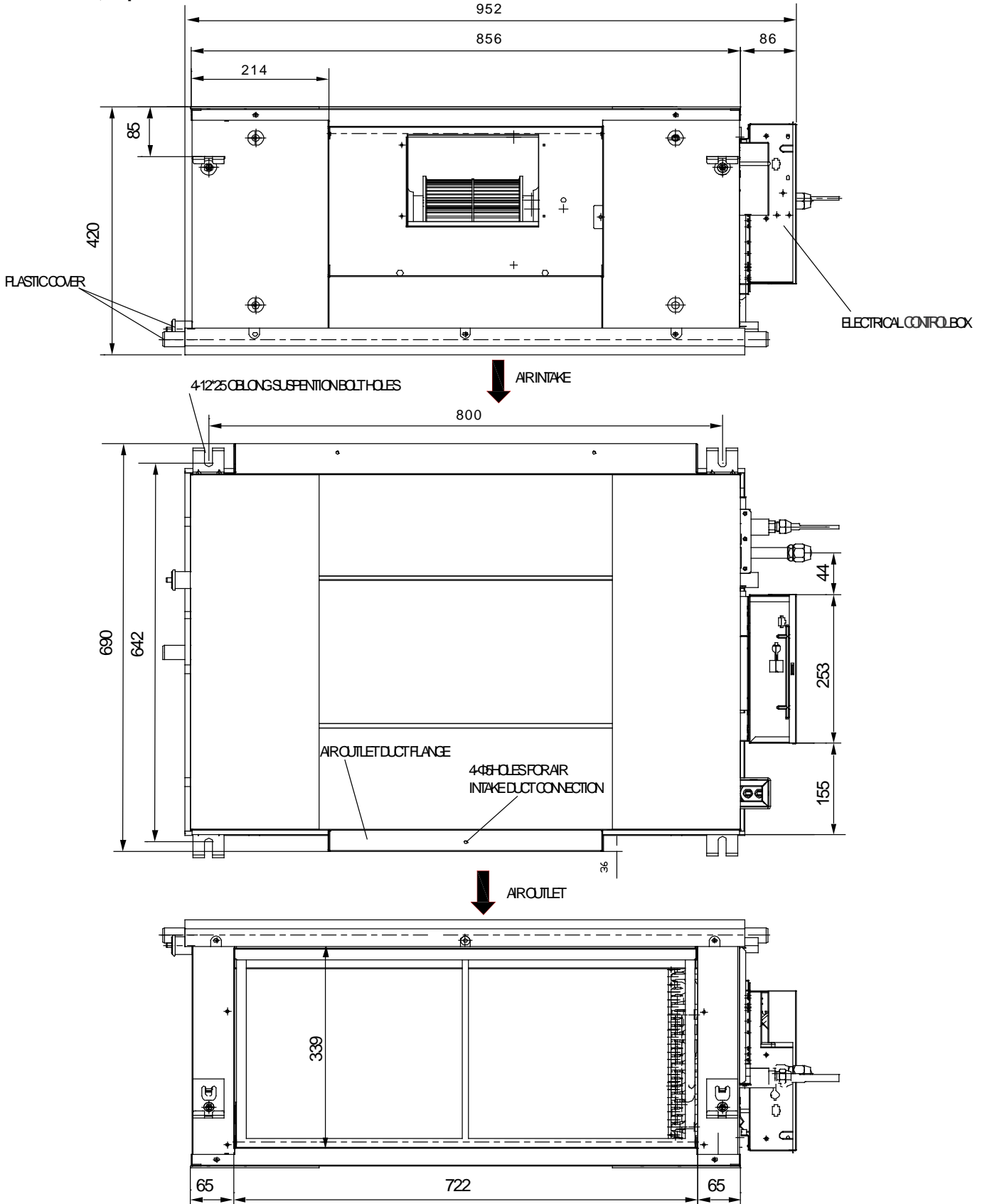
Model			MDV-D200T1/N1-B	MDV-D250T1/N1-B	MDV-D280T1/N1-B
Power supply		V- Ph-Hz	220-240V~, 1Ph, 50Hz		
Cooling	Capacity	kW	20.0	25.0	28.0
	Input	W	1516	1516	1516
	Rated current	A	6.6	6.6	6.6
Heating	Capacity	kW	22.5	26.0	31.5
	Input	W	1516	1516	1516
	Rated current	A	6.6	6.6	6.6
Max. input consumption		W	1978	1978	1978
Max. current		A	8.6	8.6	8.6
Indoor fan motor	Model		YDK550-4X (x2)	YDK550-4X (x2)	YDK550-4X (x2)
	Type		AC Motor		
	Brand		YongAn		
	Input	W	900/820/630(x2)	900/820/630(x2)	900/820/630(x2)
	Capacitor	μF	12(x2)	12(x2)	15(x2)
	Speed (hi/mid/lo)	r/min	1300/1100/900(x2)	1300/1100/900(x2)	1300/1100/900(x2)
Indoor coil	Number of rows		4	4	4
	Tube pitch(a)* row	mm	25.4x22	25.4x22	25.4x22
	Fin spacing	mm	1.8	1.8	1.8
	Fin type		Hydrophilic aluminum		
	Tube outside diameter and type	mm	Φ9.52 inner groove tube		
	length * height * width	mm	1125x512x88	1125x512x88	1125x512x88
	Number of circuits		20	20	20
Indoor air flow (H/M/L)		m ³ /h	4180/3820/3200	4180/3820/3200	4400/3940/3300
Indoor external static pressure (Hi)		Pa	50~250Pa	50~250Pa	50~250Pa
Indoor noise level (Hi/Mid/Lo)		dB(A)	59/55/52	59/55/52	59/55/52
Indoor unit	Dimension (WxHxD)	mm	1443x470x810	1443x470x810	1443x470x810
	Packing (WxHxD)	mm	1509x570x964	1509x570x964	1509x570x964
	Net/Gross weight	kg	115/129	122/128	122/128
Refrigerant type			R410A		
Throttle	Type		EXV (2 sets throttle boxes each unit)		
	Model		BD24FKS(L) (Winding: PXR-6-L400-XHP6R/AMP6BL-P)		
Design pressure		MPa	4.4/2.6		
Refrigerant piping	Liquid / Gas	mm	Φ9.53/ Φ15.9 *2	Φ9.53/ Φ15.9 *2	Φ9.53/ Φ15.9 *2
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			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:**
- Nominal cooling capacities are based on the following conditions: return air temp. : 27°CDB, 19°CWB, outdoor temp.:35°CDB,equivalent ref. Piping: 8m(horizontal)
 - Nominal heating capacities are based on the following conditions: return air temp.: 20°CDB, outdoor temp.: 7°CDB,6°CWB,equivalent ref. Piping: 8m(horizontal)

3. Dimension

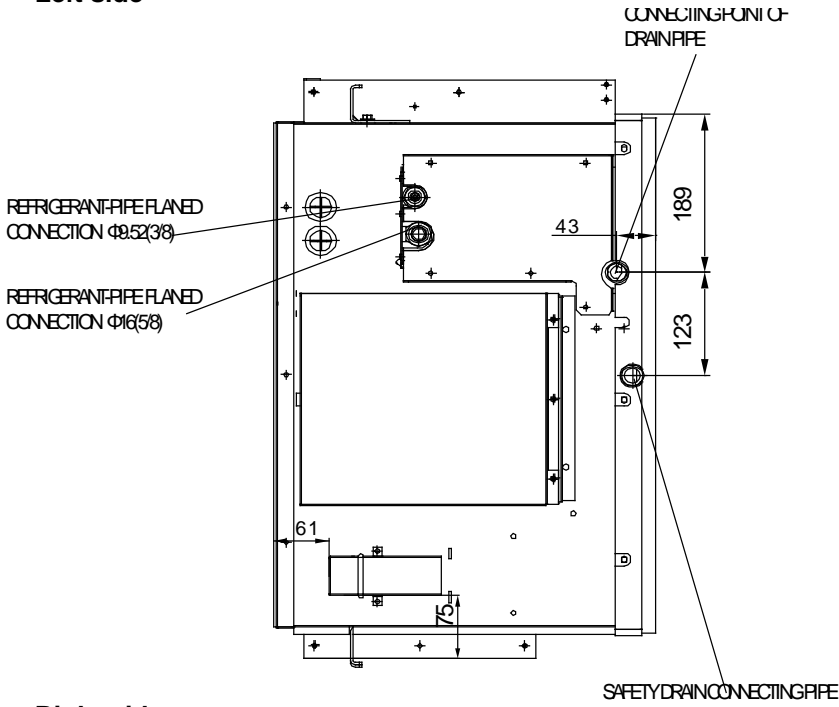
MDV-D71T1/N1-B MDV-D80T1/N1-B MDV-D90T1/N1-B MDV-D112T1/N1-B

Front view, top view and rear view:

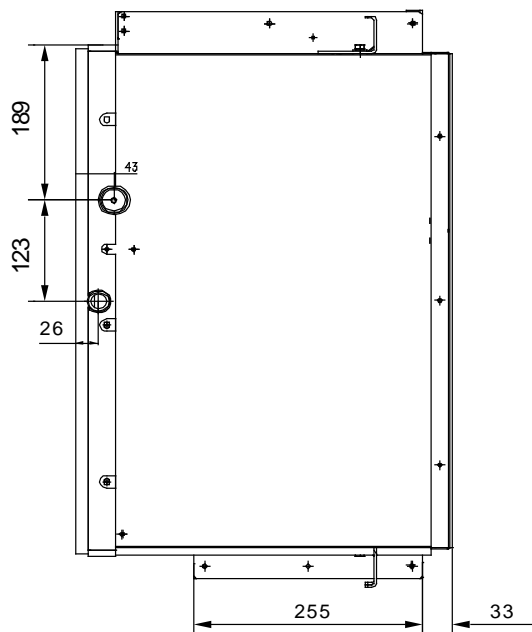


Side view:

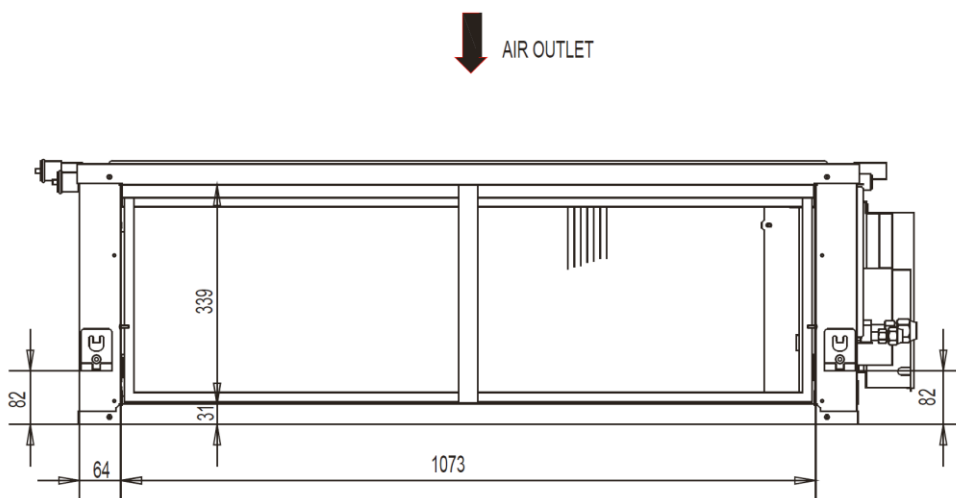
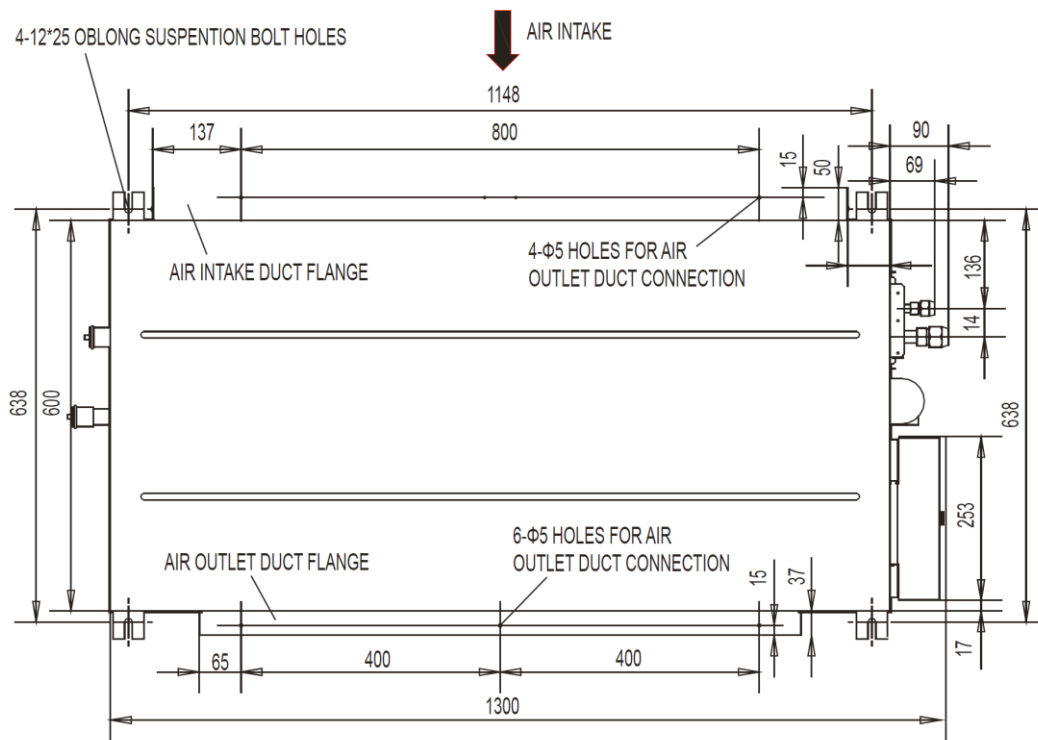
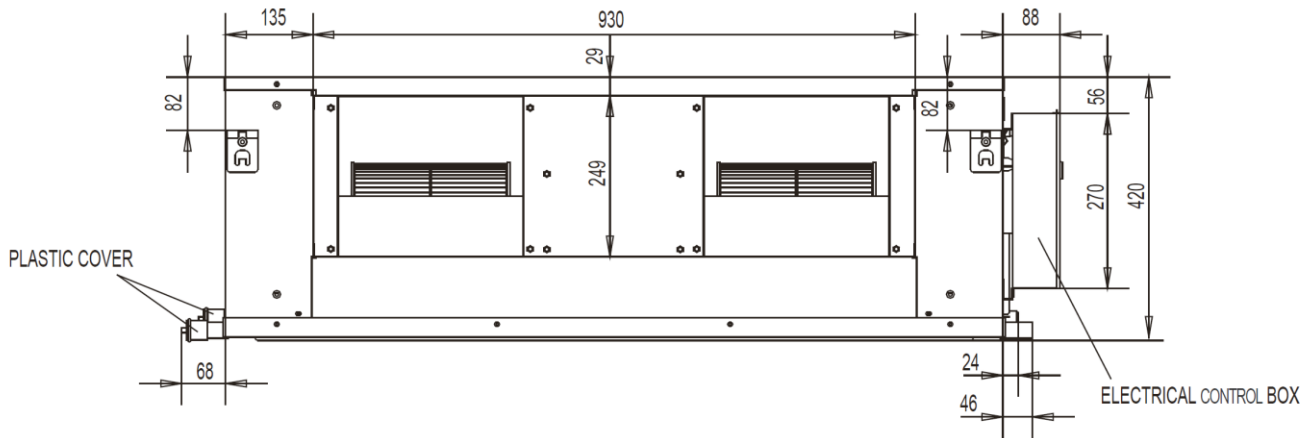
• **Left side**



• **Right side**

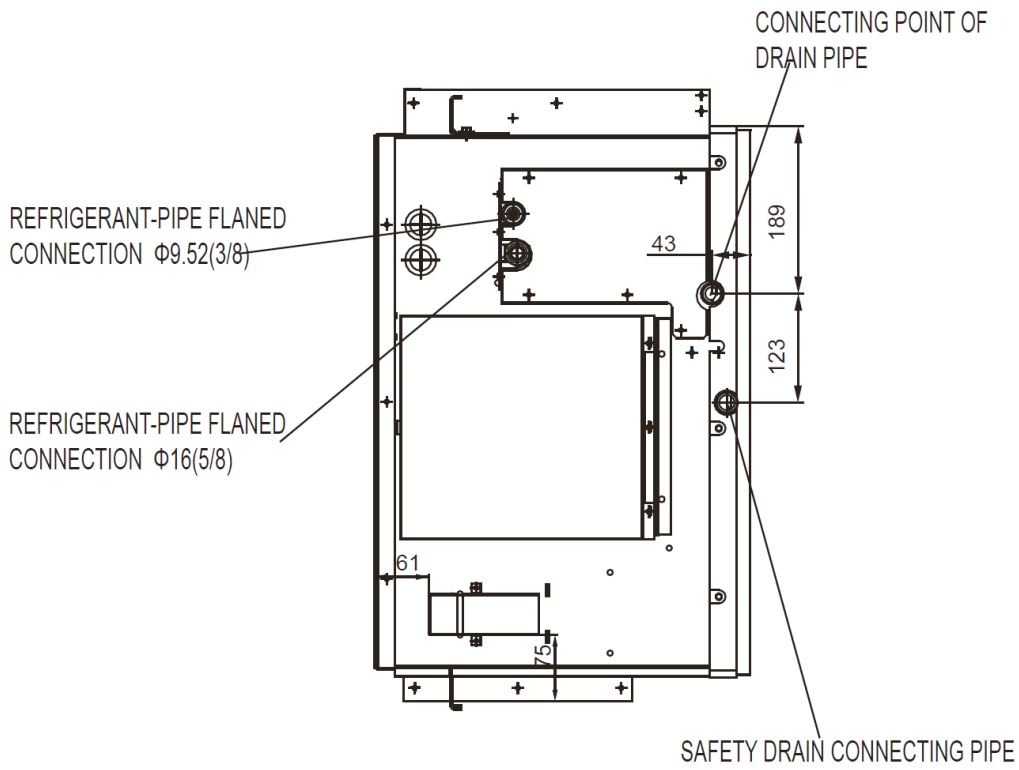


MDV-D140T1/N1-B MDV-D160T1/N1-B
Front view, top view and rear view:

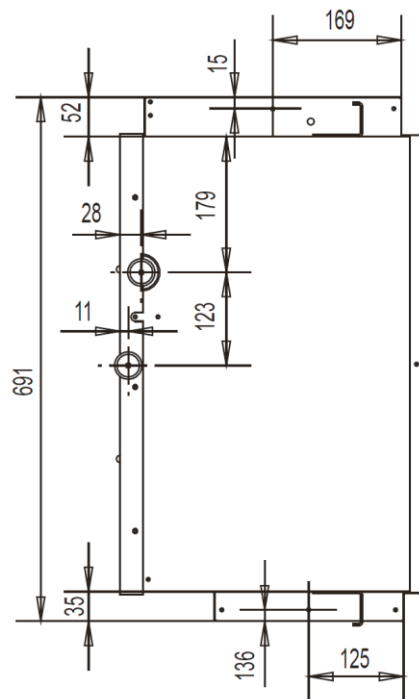


Side view:

• **Left side**

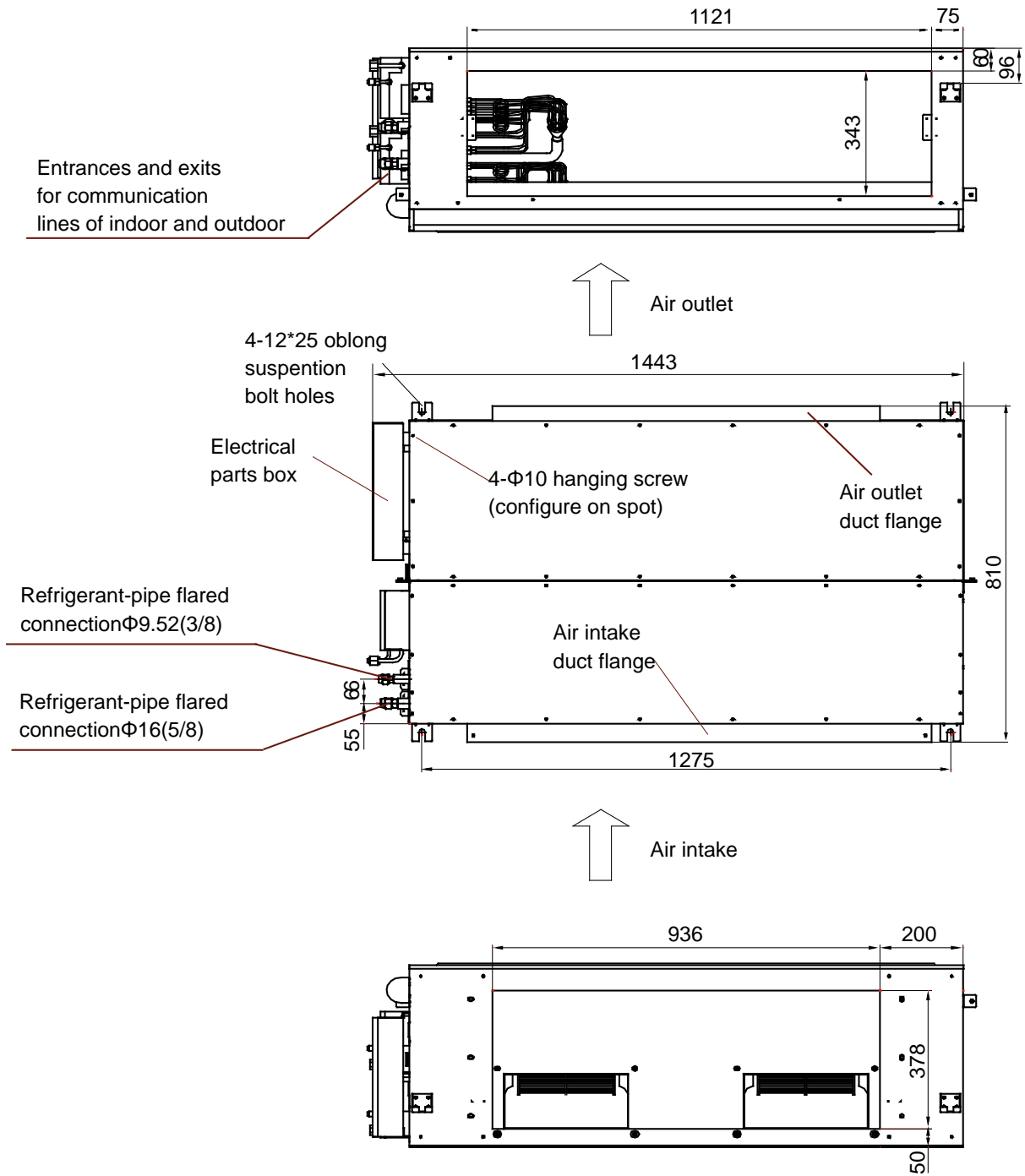


• **Right side**

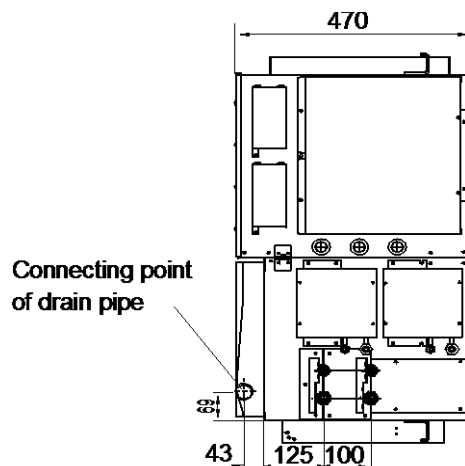


MDV-D200T1/N1-B MDV-D250T1/N1-B MDV-D280T1/N1-B

Front view, top view and rear view:



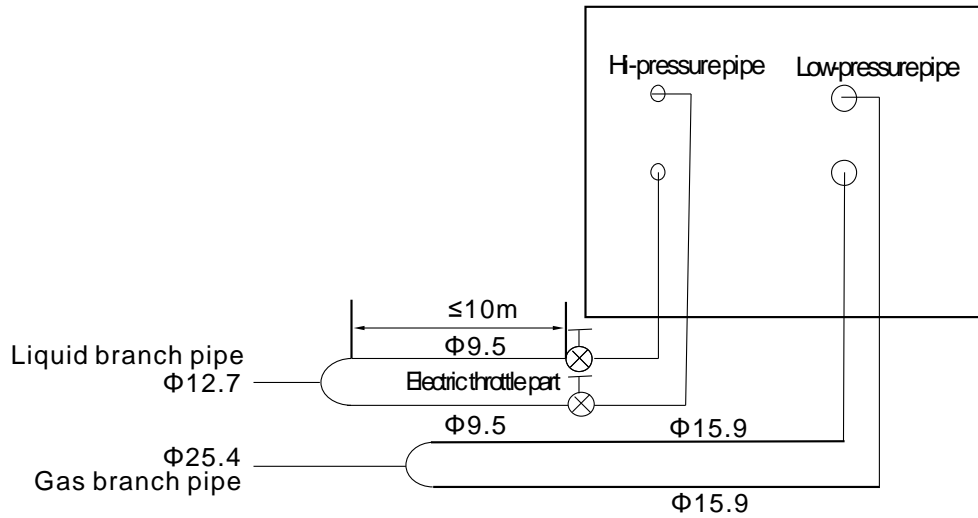
Side view:



Key points about the 200, 250, 280 model installation:

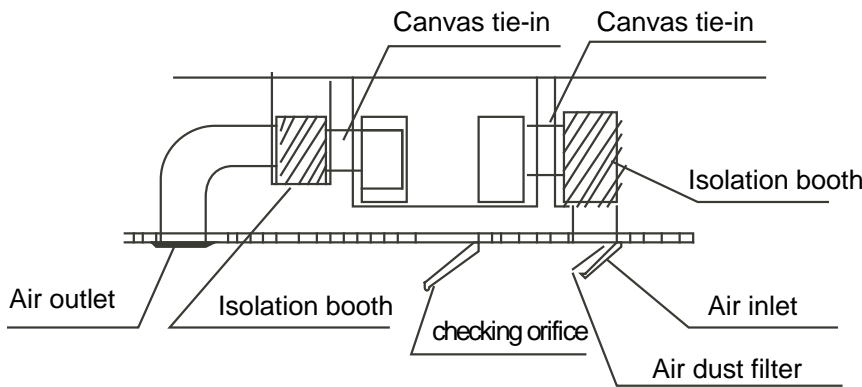
There're two sets of EXV boxes, as well two groups of pipes (Gas/Liquid), it's necessary to connect the two gas pipes together with the attached branch header BY101N1, as well the liquid pipes.

The branch header (1 set) already includes 1 gas and 1 liquid branch joint. Please kindly check the accessory and follow the instructions while install the indoor units and piping.

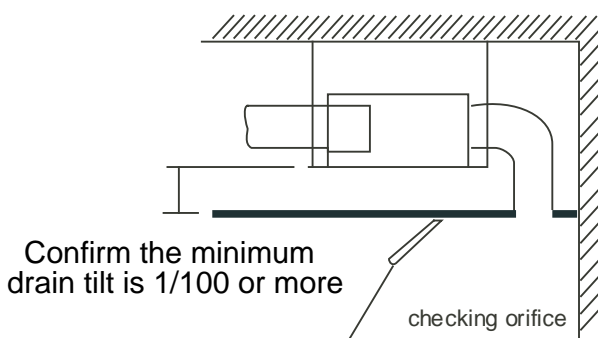
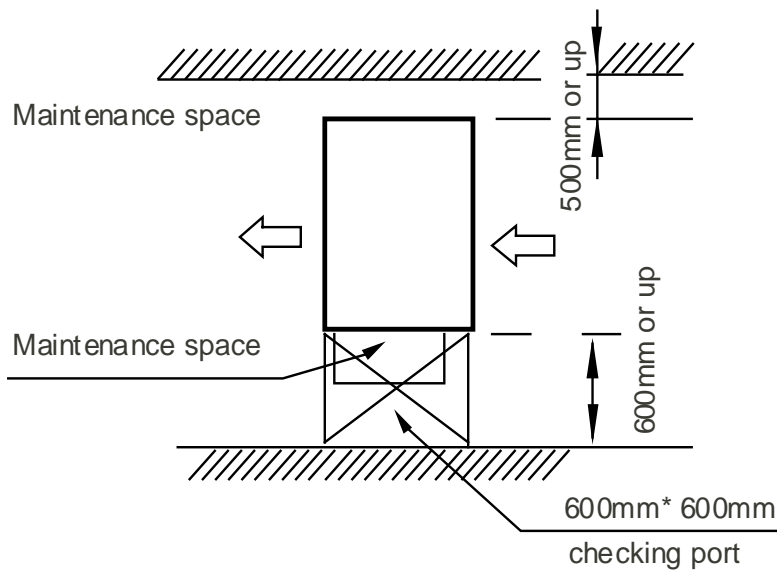


4. Service Space

- 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:**

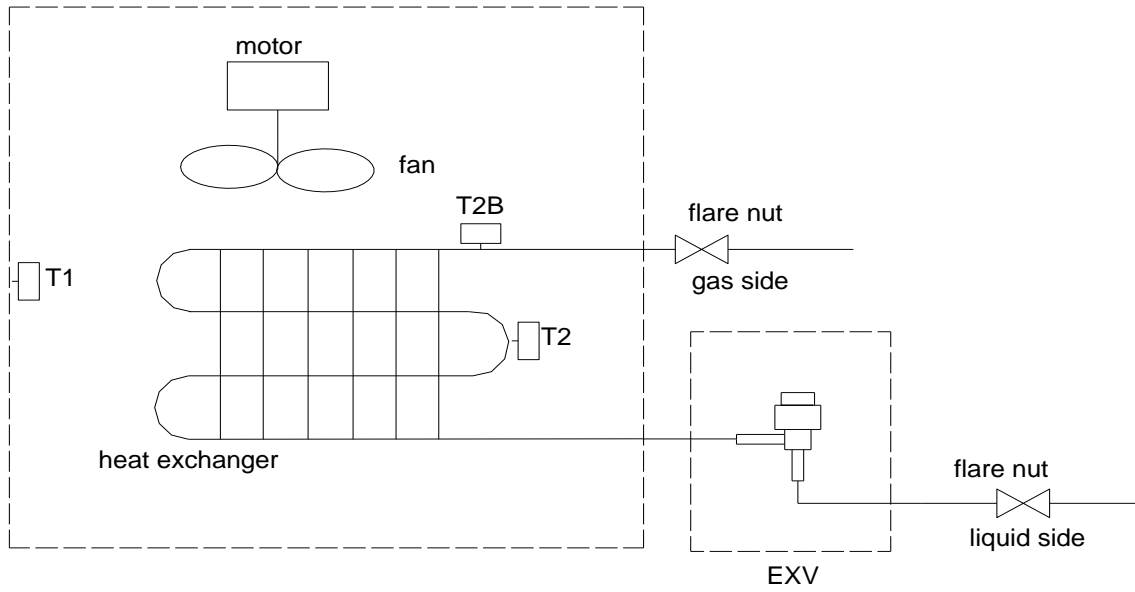


- **Keep min. 600*600 space for checking & maintenance:**

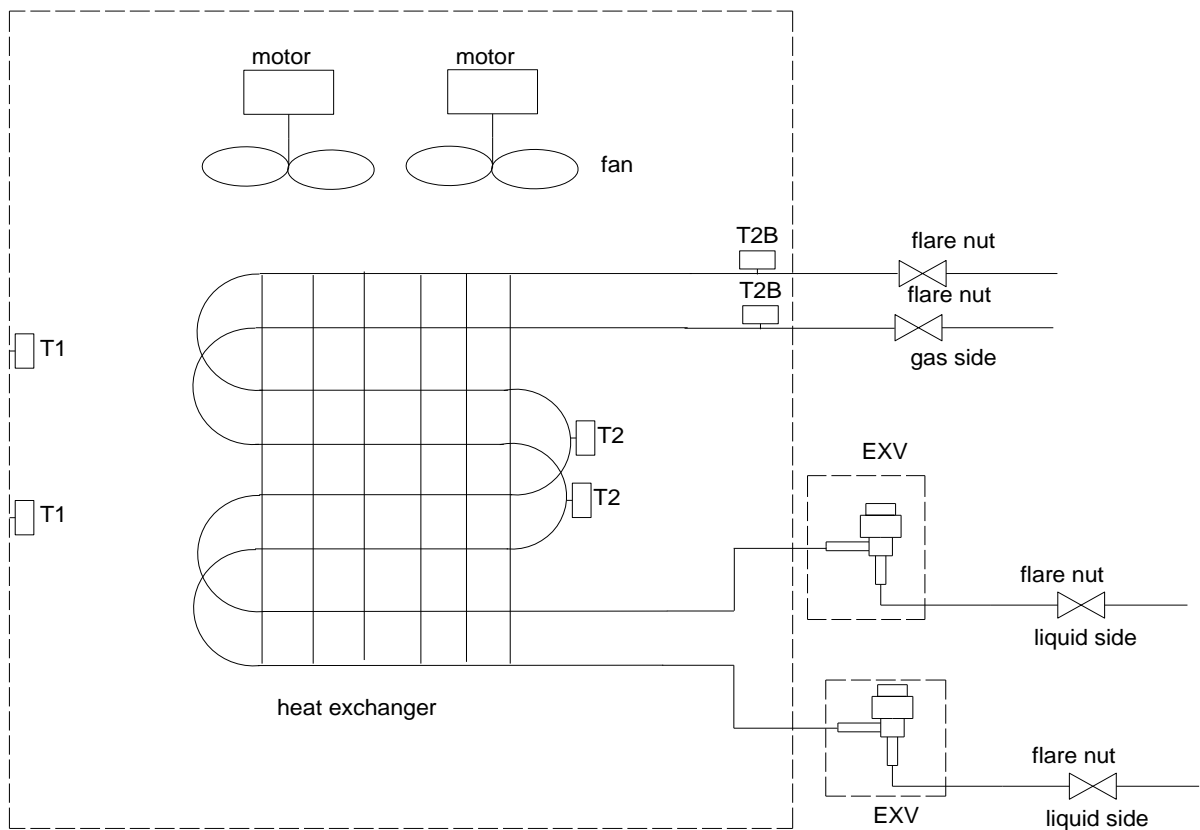


5. Piping Diagram

MDV-D71T1/N1-B , MDV-D80T1/N1-B , MDV-D90T1/N1-B , MDV-D112T1/N1-B , MDV-D140T1/N1-B , MDV-D160T1/N1-B,

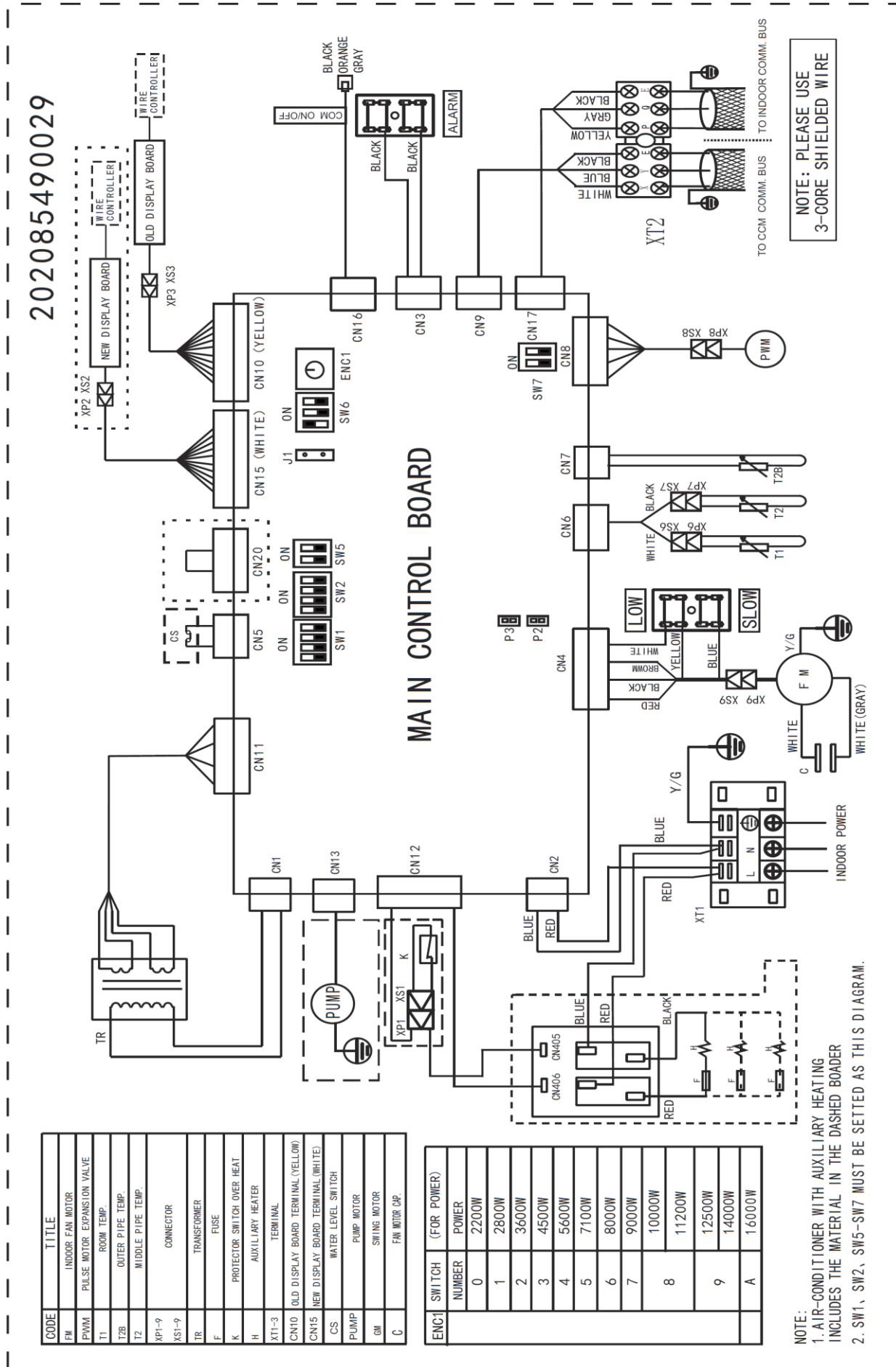


MDV-D200T1/N1-B, MDV-D250T1/N1-B, MDV-D280T1/N1-B,



6. Wiring Diagram

MDV-D71T1/N1-B, MDV-D80T1/N1-B, MDV-D90T1/N1-B,

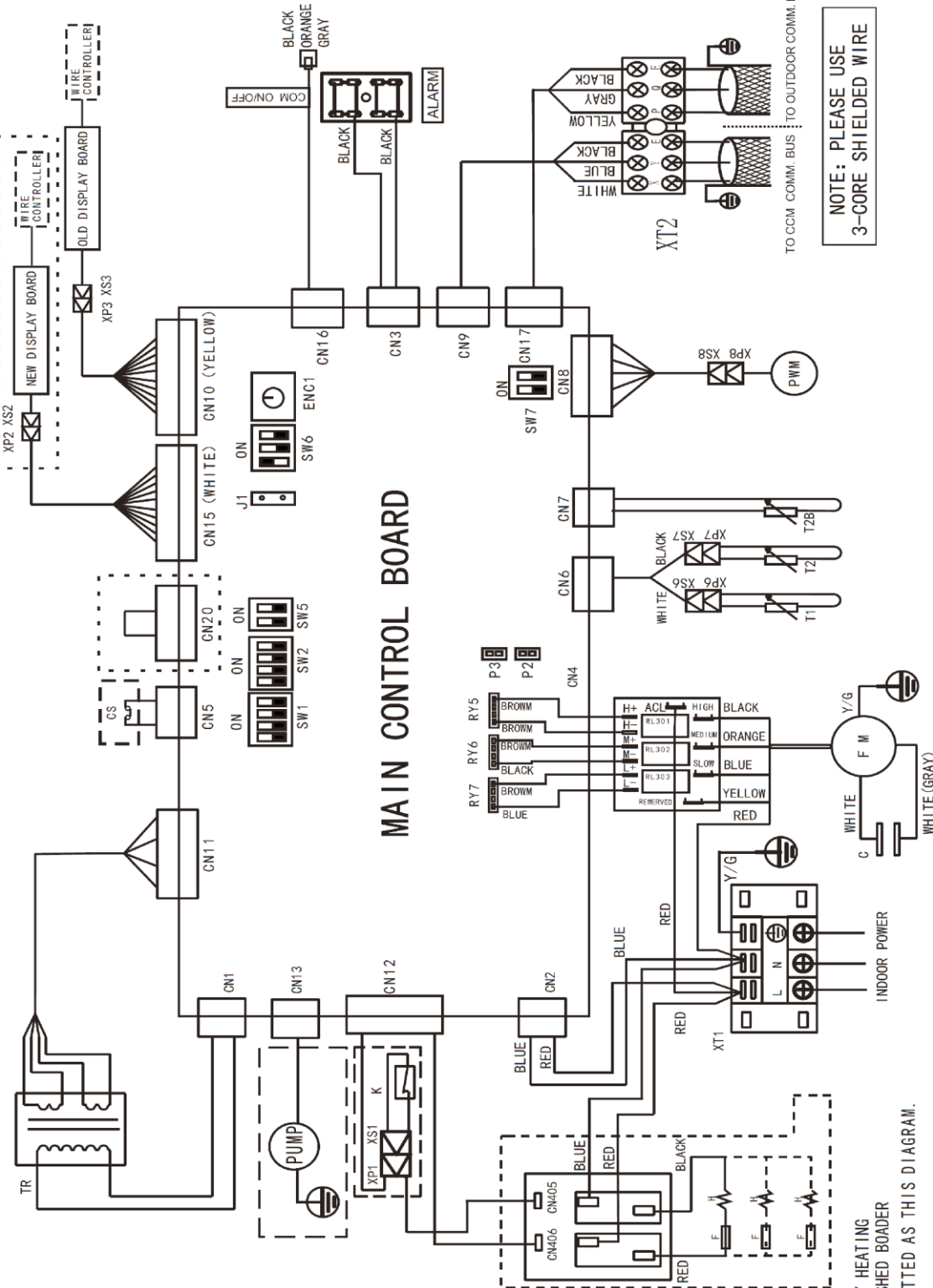


MDV-D112T1/N1-B, MDV-D140T1/N1-B, MDV-D160T1/N1-B,

202085790015

CODE	TITLE
FM	INDOOR FAN MOTOR
PWM	EXPANSION VALVE
T1	ROOM TEMP.
T2B	OUTER PIPE TEMP.
T2	MIDDLE PIPE TEMP.
XP1-8	CONNECTOR
XS1-8	TRANSFORMER
TR	FUSE
F	PROTECTOR SWITCH OVER HEAT
K	AUXILIARY HEATER
H	TERMINAL
XT1-3	OLD DISPLAY BOARD TERMINAL (YELLOW)
CN10	NEW DISPLAY BOARD TERMINAL (WHITE)
CN15	NEW DISPLAY BOARD TERMINAL (WHITE)
CS	WATER LEVEL SWITCH
PUMP	PUMP MOTOR
GM	SWING MOTOR
C	FAN MOTOR-GP

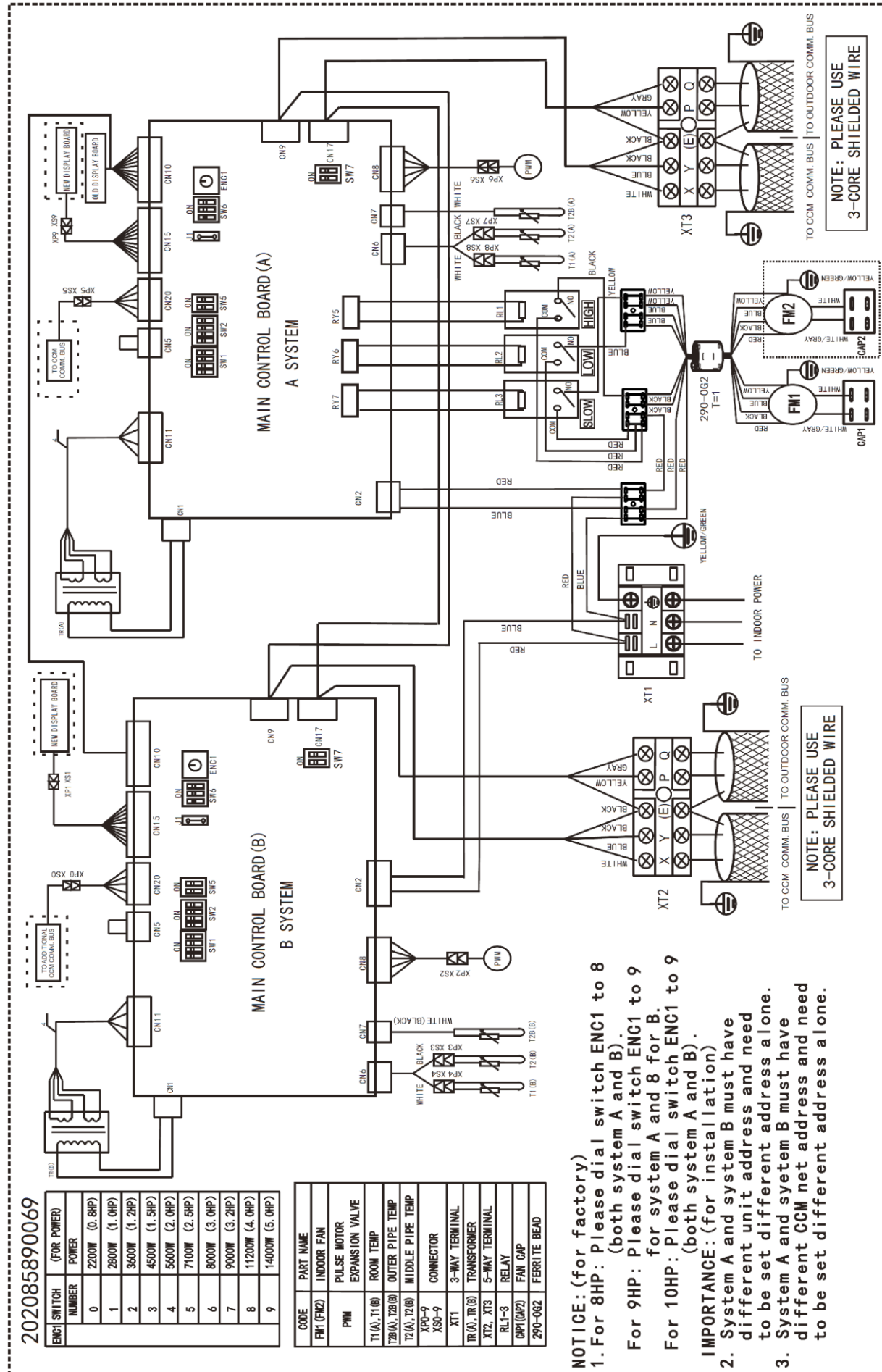
ENC1	SWITCH NUMBER	(FOR POWER)
	0	POWER
	1	2200W
	2	2800W
	3	3600W
	4	4500W
	5	5600W
	6	7100W
	7	8000W
	8	9000W
	9	10000W
		11200W
		12500W
		14000W
		16000W
	A	



NOTE: PLEASE USE 3-CORE SHIELDED WIRE

NOTE:
 1. AIR-CONDITIONER WITH AUXILIARY HEATING INCLUDES THE MATERIAL IN THE DASHED BOARDER.
 2. SW1, SW2, SW5-SW7 MUST BE SETTED AS THIS DIAGRAM.

MDV-D200T1/N1-B, MDV-D250T1/N1-B, MDV-D280T1/N1-B,

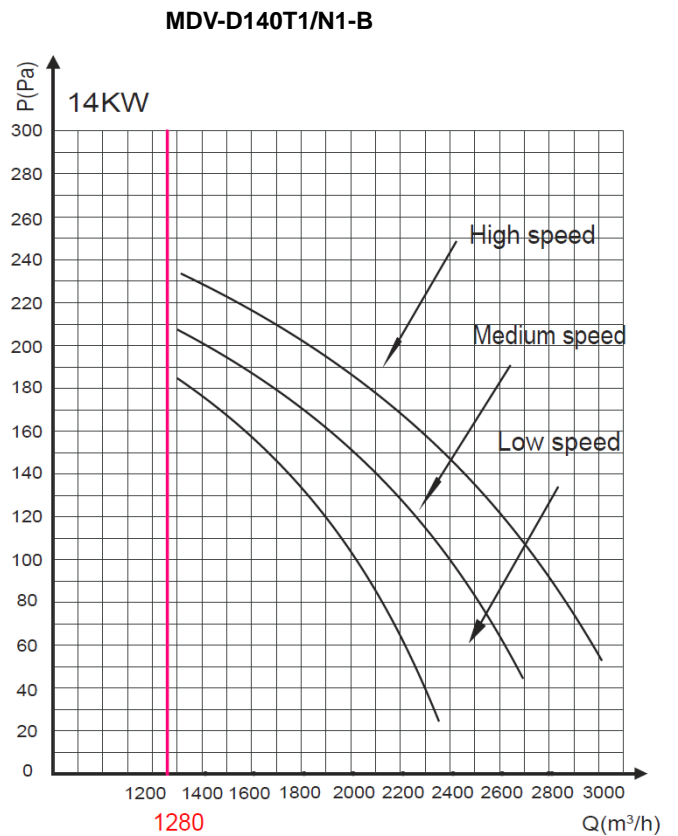
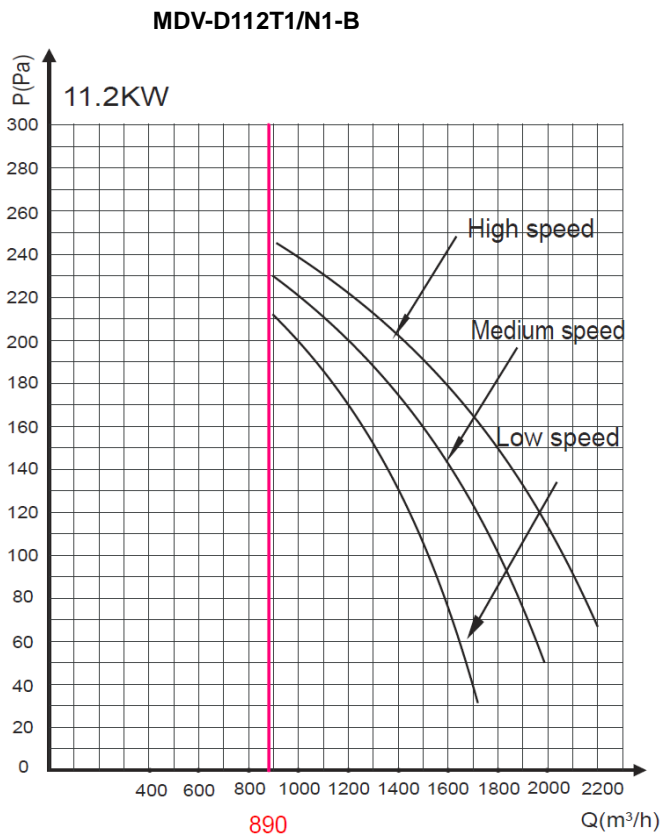
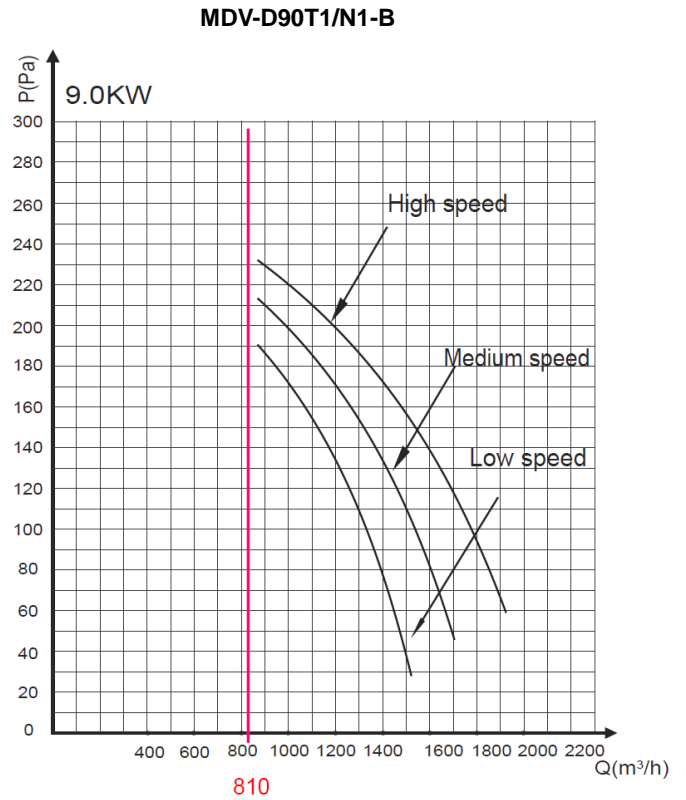
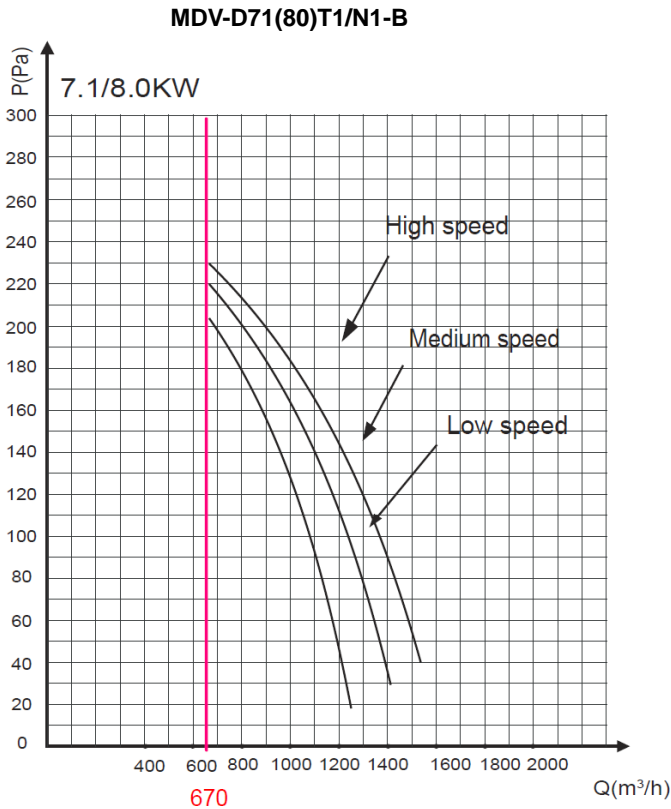


7. Fan Performance

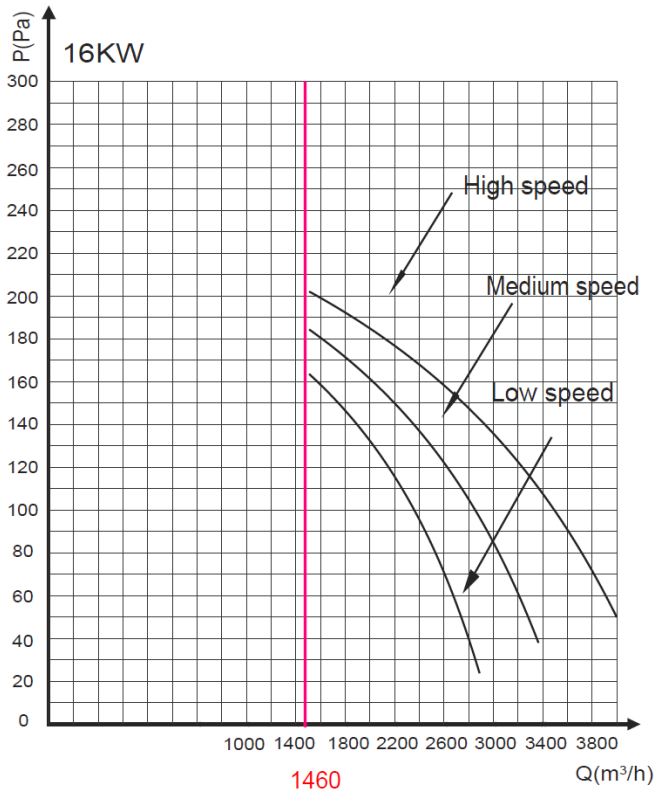
How to Read the Diagram

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, The nameplate values are shown based on the “Hi” air flow.

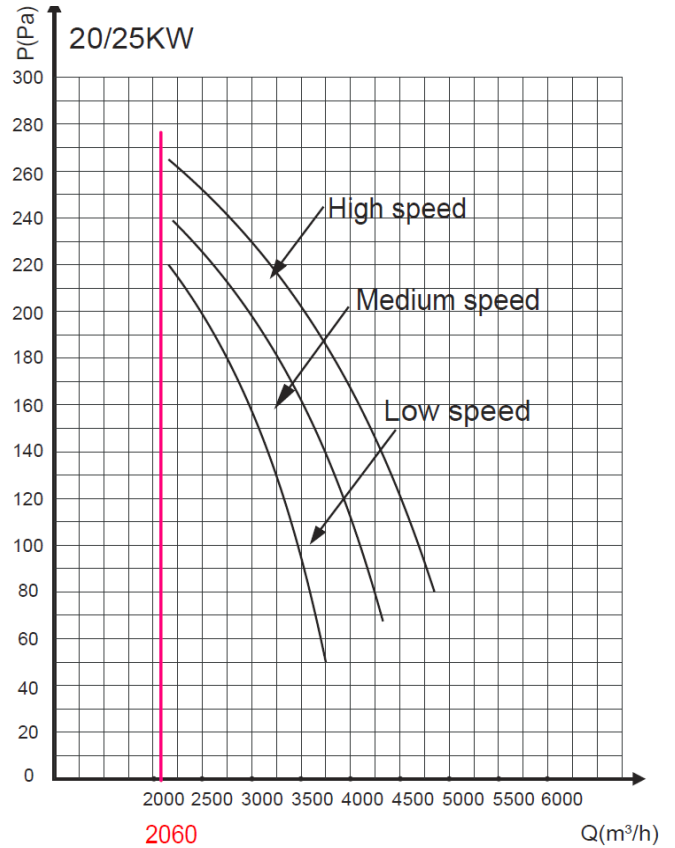
Therefore in the case of **112T1** Type, the air flow is 1544 **CMH** , while the External Static Pressure is 90Pa at “Lo” position. And 2117 **CMH** @ 90Pa, at ‘Hi’ position.



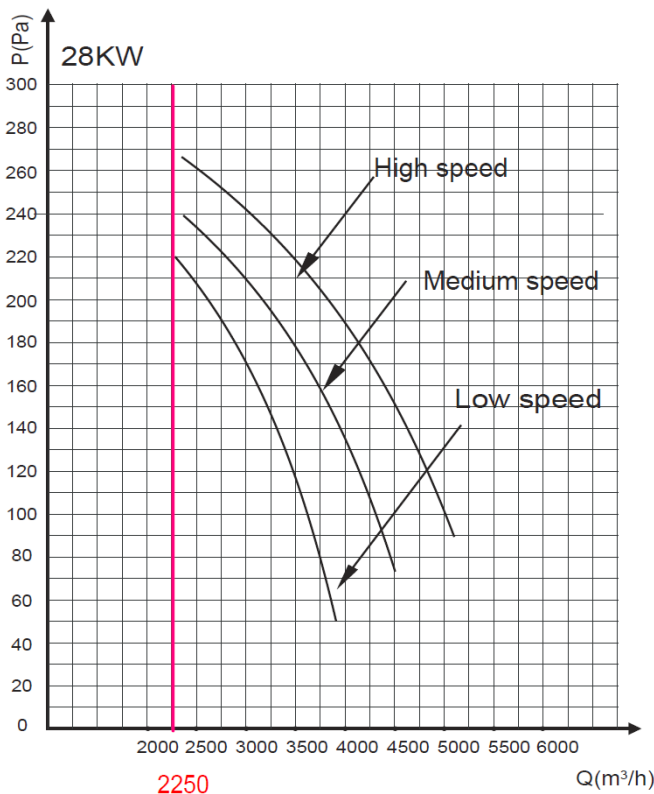
MDV-D160T1/N1-B



MDV-D200(250)T1/N1-B



MDV-D280T1/N1-B



- 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, which is the min. airflow of this duct unit. At this flow volume, the fan achieve the max. ESP, and indoor evaporator may protect by low temp.
- As well, there's a limit airflow volume, which is the max. Value at each speed. It request the unit to connect duct for air-inlet and outlet, to prevent damage from the high temp. of motor/evaporator.

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 (°C DB)	Indoor 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
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
7.1	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	1.5	1.4
	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	1.5	1.4
	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	1.5	1.4
	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	1.5	1.4
	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	1.5	1.4
	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	1.5	1.4
	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	1.5	1.4
	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	1.5	1.4
	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	1.5	1.4
	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	1.5	1.4
	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	1.5	1.4
	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	1.5	1.4
	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	1.5	1.4
	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	1.5	1.4
	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	1.5	1.4
	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	1.5	1.4
	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	1.5	1.4
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	1.5	1.4	
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	1.5	1.4	
8.0	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	1.9	1.7
	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	1.9	1.7
	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	1.9	1.7
	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	1.9	1.7
	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	1.9	1.7
	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	1.9	1.7
	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	1.9	1.7
	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	1.9	1.7
	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	1.9	1.7
	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	1.9	1.7
	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	1.9	1.7
	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	1.9	1.7
	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	1.9	1.7
	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	1.9	1.7
	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	1.9	1.7
	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	1.9	1.7
	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	1.9	1.7
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	1.9	1.7	
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	1.9	1.7	
9.0	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	2.5	2.1
	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	2.5	2.1
	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	2.5	2.1
	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	2.5	2.1
	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	2.5	2.1
	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	2.5	2.1
	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	2.5	2.1

	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	2.5	2.1
	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	2.5	2.1
	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	2.5	2.1
	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	2.5	2.1
	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	2.5	2.1
	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	2.5	2.1
	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	2.5	2.1
	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	2.5	2.1
	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	2.5	2.1
	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	2.5	2.1
	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	2.5	2.1
	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	2.5	2.1
11.2	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	3.1	2.6
	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	3.1	2.6
	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	3.1	2.6
	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	3.1	2.6
	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	3.1	2.6
	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	3.1	2.6
	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	3.1	2.6
	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	3.1	2.6
	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	3.1	2.6
	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	3.1	2.6
	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	3.1	2.6
	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	3.1	2.6
	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	3.1	2.6
	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	3.1	2.6
	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	3.1	2.6
	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	3.1	2.6
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	3.1	2.6	
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	3.1	2.6	
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	3.1	2.6	
14.0	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	3.9	3.0
	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	3.9	3.0
	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	3.9	3.0
	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	3.9	3.0
	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	3.9	3.0
	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	3.9	3.0
	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	3.9	3.0
	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	3.9	3.0
	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	3.9	3.0
	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	3.9	3.0
	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	3.9	3.0
	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	3.9	3.0
	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	3.9	3.0
	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	3.9	3.0
	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	3.9	3.0
	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	3.9	3.0
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	3.9	3.0	
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	3.9	3.0	
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	3.9	3.0	
16.0	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	4.9	3.9
	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	4.9	3.9

	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	4.9	3.9
	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	4.9	3.9
	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	4.9	3.9
	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	4.9	3.9
	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	4.9	3.9
	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	4.9	3.9
	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	4.9	3.9
	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	4.9	3.9
	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	4.9	3.9
	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	4.9	3.9
	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	4.9	3.9
	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	4.9	3.9
	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	4.9	3.9
	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	4.9	3.9
	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	4.9	3.9
	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	4.9	3.9
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	4.9	3.9	
20.0	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	5.5	6.4
	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	5.5	6.4
	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	5.5	6.4
	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	5.5	6.4
	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	5.5	6.4
	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	5.5	6.4
	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	5.5	6.4
	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	5.5	6.4
	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	5.5	6.4
	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	5.5	6.4
	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	5.5	6.4
	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	5.5	6.4
	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	5.5	6.4
	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	5.5	6.4
	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	5.5	6.4
	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	5.5	6.4
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	5.5	6.4	
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	5.5	6.4	
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	5.5	6.4	
25.0	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	6.2	5.3
	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	6.2	5.3
	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	6.2	5.3
	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	6.2	5.3
	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	6.2	5.3
	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	6.2	5.3
	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	6.2	5.3
	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	6.2	5.3
	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	6.2	5.3
	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	6.2	5.3
	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	6.2	5.3
	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	6.2	5.3
	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	6.2	5.3
	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	6.2	5.3
	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	6.2	5.3
	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	6.2	5.3

	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	6.2	5.3
	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	6.2	5.3
	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	6.2	5.3
28.0	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	7.7	6.4
	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	7.7	6.4
	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	7.7	6.4
	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	7.7	6.4
	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	7.7	6.4
	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	7.7	6.4
	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	7.7	6.4
	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	7.7	6.4
	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	7.7	6.4
	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	7.7	6.4
	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	7.7	6.4
	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	7.7	6.4
	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	7.7	6.4
	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	7.7	6.4
	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	7.7	6.4
	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	7.7	6.4
	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	7.7	6.6
	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	7.7	6.6
	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	7.7	6.6
	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	9.7	7.8
	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	9.7	7.8
	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	9.7	7.8
	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	9.7	7.8
	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	9.7	7.8
	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	9.7	7.8
	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	9.7	7.8
	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	9.7	7.8
	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	9.7	7.8
	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	9.7	7.8
	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	9.7	7.8
	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	9.7	7.8
	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	9.7	7.8
	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	9.7	7.8
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	9.7	7.8	
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	9.7	7.8	
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	9.7	7.8	
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	9.7	7.8	

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	TC	TC	TC	TC	TC
7.1	-20	-19.8	4.48	4.48	4.48	4.48	4.48	4.48
	-19	-18.8	4.8	4.8	4.8	4.8	4.8	4.8
	-17	-16.7	5.04	5.04	5.04	5.04	5.04	5.04
	-15	-14.7	5.2	5.2	5.2	5.2	5.2	5.2
	-13.00	-12.60	5.36	5.36	5.36	5.36	5.36	5.36
	-11.00	-10.50	5.6	5.6	5.6	5.6	5.6	5.6
	-10.00	-9.50	5.84	5.84	5.84	5.84	5.84	5.84
	-9.10	-8.50	6	6	6	6	6	6
	-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	8	8	7.76	7.36	6.72
	7.90	9.00	8.24	8.24	8	7.76	7.36	6.72
9.80	11.00	8.48	8.48	8	7.76	7.36	6.72	
11.80	13.00	8.8	8.64	8	7.76	7.36	6.72	
13.70	15.00	9.04	8.64	8	7.76	7.36	6.72	
8.0	-20	-19.8	5.04	5.04	5.04	5.04	5.04	5.04
	-19	-18.8	5.4	5.4	5.4	5.4	5.4	5.4
	-17	-16.7	5.67	5.67	5.67	5.67	5.67	5.67
	-15	-14.7	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	6.3	6.3	6.3	6.3	6.3	6.3
	-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	9	9	8.73	8.28	7.56
	7.90	9.00	9.27	9.27	9	8.73	8.28	7.56
9.80	11.00	9.54	9.54	9	8.73	8.28	7.56	
11.80	13.00	9.9	9.72	9	8.73	8.28	7.56	
13.70	15.00	10.17	9.72	9	8.73	8.28	7.56	
9.0	-20	-19.8	5.6	5.04	5.6	5.6	5.6	5.6
	-19	-18.8	6	5.4	6	6	6	6
	-17	-16.7	6.3	6.3	6.3	6.3	6.3	6.3
	-15	-14.7	6.5	6.5	6.5	6.5	6.5	6.5
	-13.00	-12.60	6.7	6.7	6.7	6.7	6.7	6.7
	-11.00	-10.50	7	7	7	7	7	7
	-10.00	-9.50	7.3	7.3	7.3	7.3	7.3	7.3
	-9.10	-8.50	7.5	7.5	7.5	7.5	7.5	7.5

	-7.60	-7.00	7.6	7.6	7.6	7.6	7.6	7.6
	-5.60	-5.00	7.9	7.9	7.9	7.9	7.9	7.9
	-3.70	-3.00	8.3	8.3	8.3	8.3	8.3	8.3
	-0.70	0.00	8.9	8.9	8.9	8.9	8.9	8.4
	2.20	3.00	9.4	9.4	9.4	9.4	9.2	8.4
	4.10	5.00	9.7	9.7	9.7	9.7	9.2	8.4
	6.00	7.00	10	10	10	9.7	9.2	8.4
	7.90	9.00	10.3	10.3	10	9.7	9.2	8.4
	9.80	11.00	10.6	10.6	10	9.7	9.2	8.4
	11.80	13.00	11	10.8	10	9.7	9.2	8.4
	13.70	15.00	11.3	10.8	10	9.7	9.2	8.4
11.2	-20	-19.8	7	7	7	7	7	7
	-19	-18.8	7.5	7.5	7.5	7.5	7.5	7.5
	-17	-16.7	7.88	7.88	7.88	7.88	7.88	7.88
	-15	-14.7	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	9.5	9.5	9.5	9.5	9.5	9.5
	-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	10.5
	2.20	3.00	11.75	11.75	11.75	11.75	11.5	10.5
	4.10	5.00	12.13	12.13	12.13	12.13	11.5	10.5
	6.00	7.00	12.5	12.5	12.5	12.13	11.5	10.5
	7.90	9.00	12.88	12.88	12.5	12.13	11.5	10.5
9.80	11.00	13.25	13.25	12.5	12.13	11.5	10.5	
11.80	13.00	13.75	13.5	12.5	12.13	11.5	10.5	
13.70	15.00	14.13	13.5	12.5	12.13	11.5	10.5	
14.0	-20	-19.8	8.68	8.68	8.68	8.68	8.68	8.68
	-19	-18.8	9.3	9.3	9.3	9.3	9.3	9.3
	-17	-16.7	9.77	9.77	9.77	9.77	9.77	9.77
	-15	-14.7	10.08	10.08	10.08	10.08	10.08	10.08
	-13.00	-12.60	10.4	10.4	10.4	10.4	10.4	10.4
	-11.00	-10.50	10.9	10.9	10.9	10.9	10.9	10.9
	-10.00	-9.50	11.3	11.3	11.3	11.3	11.3	11.3
	-9.10	-8.50	11.6	11.6	11.6	11.6	11.6	11.6
	-7.60	-7.00	11.8	11.8	11.8	11.8	11.8	11.8
	-5.60	-5.00	12.3	12.3	12.3	12.3	12.3	12.3
	-3.70	-3.00	12.9	12.9	12.9	12.9	12.9	12.9
	-0.70	0.00	13.8	13.8	13.8	13.8	13.8	13
	2.20	3.00	14.6	14.6	14.6	14.6	14.3	13
	4.10	5.00	15	15	15	15	14.3	13
	6.00	7.00	15.5	15.5	15.5	15	14.3	13
	7.90	9.00	16	16	15.5	15	14.3	13
9.80	11.00	16.4	16.4	15.5	15	14.3	13	
11.80	13.00	17.1	16.7	15.5	15	14.3	13	
13.70	15.00	17.5	16.7	15.5	15	14.3	13	
16.0	-20	-19.8	8.68	8.68	8.68	8.68	8.68	8.68
	-19	-18.8	9.3	9.3	9.3	9.3	9.3	9.3
	-17	-16.7	9.77	9.77	9.77	9.77	9.77	9.77

	-15	-14.7	10.08	10.08	10.08	10.08	10.08	10.08
	-13.00	-12.60	10.4	10.4	10.4	10.4	10.4	10.4
	-11.00	-10.50	10.9	10.9	10.9	10.9	10.9	10.9
	-10.00	-9.50	11.3	11.3	11.3	11.3	11.3	11.3
	-9.10	-8.50	11.6	11.6	11.6	11.6	11.6	11.6
	-7.60	-7.00	11.8	11.8	11.8	11.8	11.8	11.8
	-5.60	-5.00	12.3	12.3	12.3	12.3	12.3	12.3
	-3.70	-3.00	12.9	12.9	12.9	12.9	12.9	12.9
	-0.70	0.00	13.8	13.8	13.8	13.8	13.8	13
	2.20	3.00	14.6	14.6	14.6	14.6	14.3	13
	4.10	5.00	15	15	15	15	14.3	13
	6.00	7.00	15.5	15.5	15.5	15	14.3	13
	7.90	9.00	16	16	15.5	15	14.3	13
	9.80	11.00	16.4	16.4	15.5	15	14.3	13
	11.80	13.00	17.1	16.7	15.5	15	14.3	13
	13.70	15.00	17.5	16.7	15.5	15	14.3	13
20.0	-20	-19.8	8.68	8.68	8.68	8.68	8.68	8.68
	-19	-18.8	9.3	9.3	9.3	9.3	9.3	9.3
	-17	-16.7	9.77	9.77	9.77	9.77	9.77	9.77
	-15	-14.7	10.08	10.08	10.08	10.08	10.08	10.08
	-13.00	-12.60	10.4	10.4	10.4	10.4	10.4	10.4
	-11.00	-10.50	10.9	10.9	10.9	10.9	10.9	10.9
	-10.00	-9.50	11.3	11.3	11.3	11.3	11.3	11.3
	-9.10	-8.50	11.6	11.6	11.6	11.6	11.6	11.6
	-7.60	-7.00	11.8	11.8	11.8	11.8	11.8	11.8
	-5.60	-5.00	12.3	12.3	12.3	12.3	12.3	12.3
	-3.70	-3.00	12.9	12.9	12.9	12.9	12.9	12.9
	-0.70	0.00	13.8	13.8	13.8	13.8	13.8	13
	2.20	3.00	14.6	14.6	14.6	14.6	14.3	13
	4.10	5.00	15	15	15	15	14.3	13
	6.00	7.00	15.5	15.5	15.5	15	14.3	13
	7.90	9.00	16	16	15.5	15	14.3	13
	9.80	11.00	16.4	16.4	15.5	15	14.3	13
11.80	13.00	17.1	16.7	15.5	15	14.3	13	
13.70	15.00	17.5	16.7	15.5	15	14.3	13	
25.0	-20	-19.8	8.68	8.68	8.68	8.68	8.68	8.68
	-19	-18.8	9.3	9.3	9.3	9.3	9.3	9.3
	-17	-16.7	9.77	9.77	9.77	9.77	9.77	9.77
	-15	-14.7	10.08	10.08	10.08	10.08	10.08	10.08
	-13.00	-12.60	10.4	10.4	10.4	10.4	10.4	10.4
	-11.00	-10.50	10.9	10.9	10.9	10.9	10.9	10.9
	-10.00	-9.50	11.3	11.3	11.3	11.3	11.3	11.3
	-9.10	-8.50	11.6	11.6	11.6	11.6	11.6	11.6
	-7.60	-7.00	11.8	11.8	11.8	11.8	11.8	11.8
	-5.60	-5.00	12.3	12.3	12.3	12.3	12.3	12.3
	-3.70	-3.00	12.9	12.9	12.9	12.9	12.9	12.9
	-0.70	0.00	13.8	13.8	13.8	13.8	13.8	13
	2.20	3.00	14.6	14.6	14.6	14.6	14.3	13
	4.10	5.00	15	15	15	15	14.3	13
	6.00	7.00	15.5	15.5	15.5	15	14.3	13
	7.90	9.00	16	16	15.5	15	14.3	13
	9.80	11.00	16.4	16.4	15.5	15	14.3	13

	11.80	13.00	17.1	16.7	15.5	15	14.3	13
	13.70	15.00	17.5	16.7	15.5	15	14.3	13
28.0	-20	-19.8	8.68	8.68	8.68	8.68	8.68	8.68
	-19	-18.8	9.3	9.3	9.3	9.3	9.3	9.3
	-17	-16.7	9.77	9.77	9.77	9.77	9.77	9.77
	-15	-14.7	10.08	10.08	10.08	10.08	10.08	10.08
	-13.00	-12.60	10.4	10.4	10.4	10.4	10.4	10.4
	-11.00	-10.50	10.9	10.9	10.9	10.9	10.9	10.9
	-10.00	-9.50	11.3	11.3	11.3	11.3	11.3	11.3
	-9.10	-8.50	11.6	11.6	11.6	11.6	11.6	11.6
	-7.60	-7.00	11.8	11.8	11.8	11.8	11.8	11.8
	-5.60	-5.00	12.3	12.3	12.3	12.3	12.3	12.3
	-3.70	-3.00	12.9	12.9	12.9	12.9	12.9	12.9
	-0.70	0.00	13.8	13.8	13.8	13.8	13.8	13
	2.20	3.00	14.6	14.6	14.6	14.6	14.3	13
	4.10	5.00	15	15	15	15	14.3	13
	6.00	7.00	15.5	15.5	15.5	15	14.3	13
	7.90	9.00	16	16	15.5	15	14.3	13
	9.80	11.00	16.4	16.4	15.5	15	14.3	13
11.80	13.00	17.1	16.7	15.5	15	14.3	13	
13.70	15.00	17.5	16.7	15.5	15	14.3	13	

9. Electric Characteristics

Model	Indoor Unit				Power Supply		IFM	
	Hz	Voltage	Min.	Max.	MCA	MFA	KW	FLA
MDV-D71T1/N1-B	50	220-240V	198V	254V	1.23	5	0.1	1.17
MDV-D80T1/N1-B	50	220-240V	198V	254V	1.23	5	0.1	1.17
MDV-D90T1/N1-B	50	220-240V	198V	254V	1.87	5	0.16	1.71
MDV-D112T1/N1-B	50	220-240V	198V	254V	2.3	5	0.2	2.18
MDV-D140T1/N1-B	50	220-240V	198V	254V	2.85	5	0.3	2.56
MDV-D160T1/N1-B	50	220-240V	198V	254V	4.77	6	0.4	3.52
MDV-D200T1/N1-B	50	220-240V	198V	254V	8.6	10	0.55 (*2)	3.1 (*2)
MDV-D250T1/N1-B	50	220-240V	198V	254V	8.6	10	0.55 (*2)	3.1 (*2)
MDV-D280T1/N1-B	50	220-240V	198V	254V	8.6	10	0.55 (*2)	3.25 (*2)

Remark:

MCA: Min. Current Amps. (A)

MFA: Max. Fuse Amps. (A)

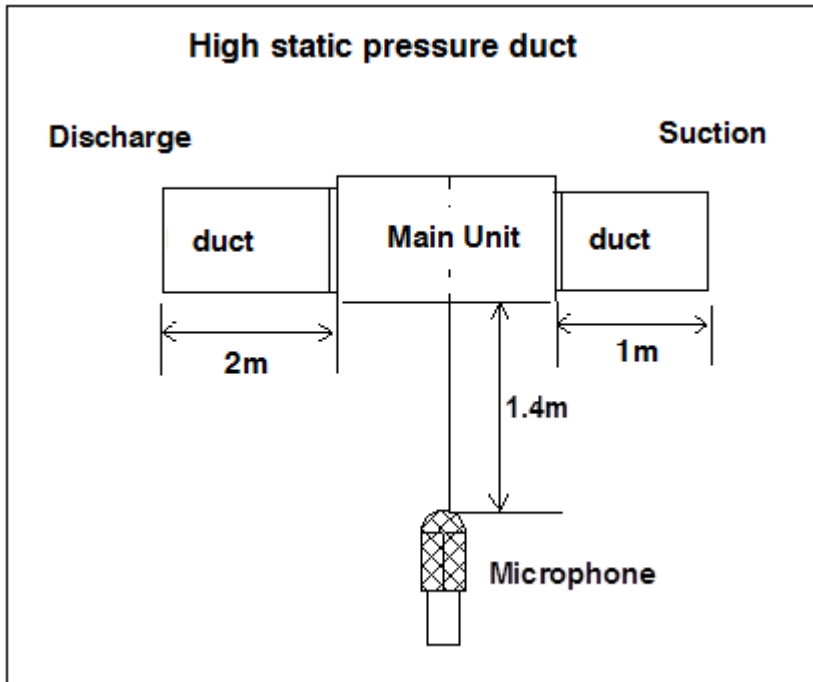
KW: Fan Motor Rated Output (kW)

FLA: Full Load Amps. (A)

IFM: Indoor Fan Motor

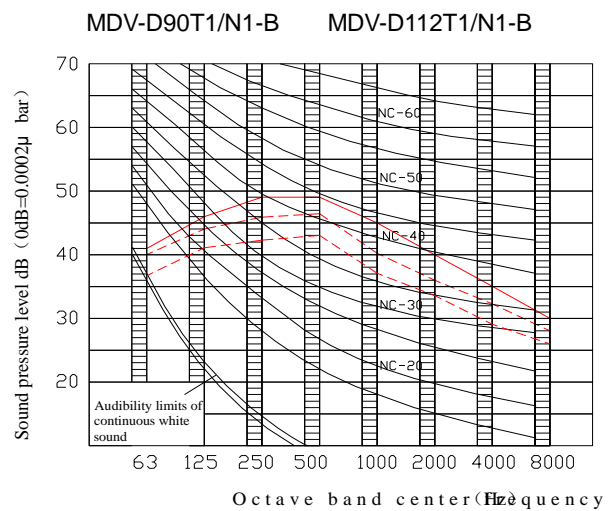
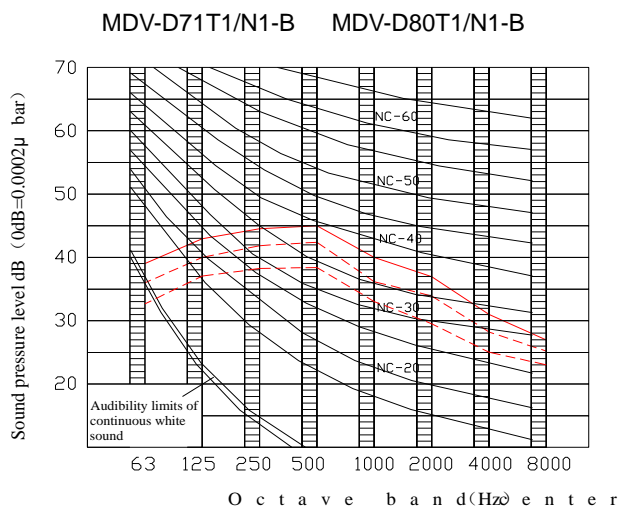
10. Noise Levels

10.1 Test condition

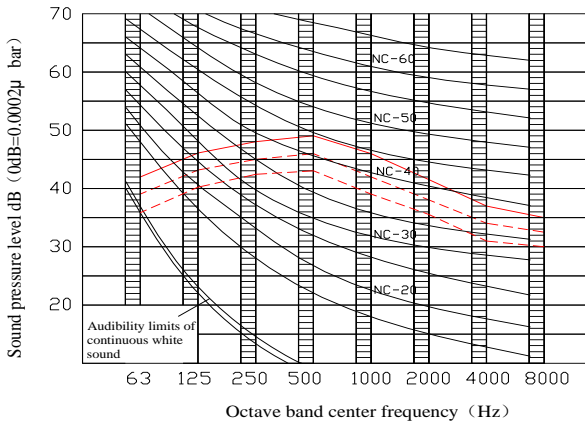


10.2 Test value

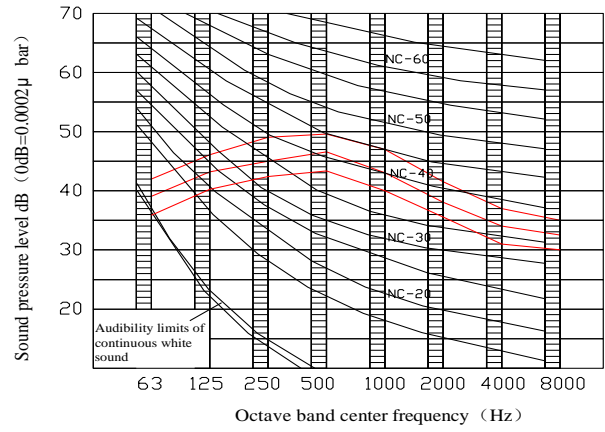
Model	Noise test value dB(A)		
	Hi	Mid	Low
MDV-D71T1/N1-B	48	46	44.5
MDV-D80T1/N1-B	48	46	44.5
MDV-D90T1/N1-B	52	49	47
MDV-D112T1/N1-B	52	49	47
MDV-D140T1/N1-B	53	50	48
MDV-D160T1/N1-B	54	52	50
MDV-D200T1/N1-B	58	55	52
MDV-D250T1/N1-B	58	55	52
MDV-D280T1/N1-B	58	55	52



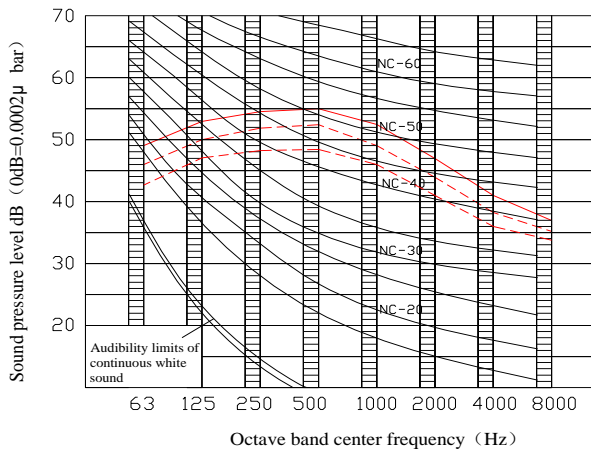
MDV-D140T1/N1-B



MDV-D160T1/N1-B



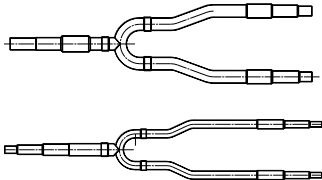
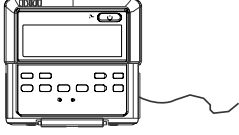
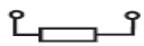


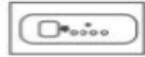


MDV-D200T1/N1-B MDV-D250T1/N1-B MDV-D280T1/N1-B



11. Accessories

11.1 Standard accessories

Name	Qty.	Shape	Usage
Installation manual	1	/	/
Pipe insulation material	71~160		Heat insulation
	200 and up		
Adhesive tape for seal	2		To connect drain pipe
Branch header (for 200 and up model) package Code: 201609891015 Model:CE-MDV-BY101N1(MDV-BY101N1)	1		1 liquid and 1 gas branch To connect the two circuits of indoor unit as one system.
Wired controller	1		/
Network matching wire	1		The indoor unit witch 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 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
Drain pump kit	SBH-04	210095700140	To lift the drain water up