

DUCT STATIC HIGH PRESSURE VRF INDOOR UNIT



TRUST AIR CONDITIONING EQUIPMENT CO.
Prepared By: Engineering & R & D Department.

High static pressure duct unit

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توجه:

شرکت تراست حق تغییر مشخصات دستگاه ها را در جهت بهبود و ارتقای کیفیت برای خود محفوظ می دارد.

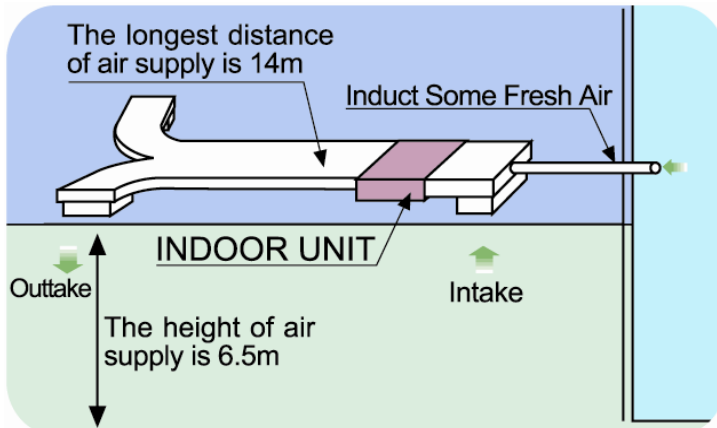
2015-04

1. Features

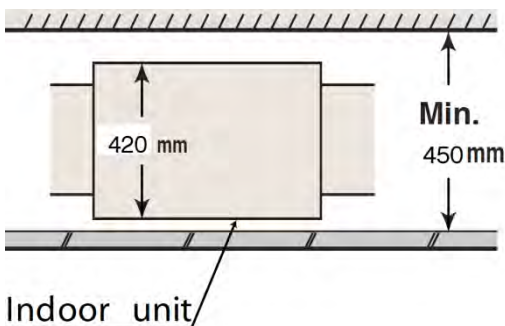
1.1 High static pressure allows flexible duct design



1.1.1 External static pressure of Indoor Unit can be up to 280 Pa, which allows extensive duct work for flexible applications. So the cool air can be delivered to each corner even in a super-high ceiling.



1.1.2 With 420mm (71~160 model) thickness body, the minimum distance above the ceiling is 450mm.



1.2 Wide capacity range

—The capacity ranges from 7.1KW to 56.0KW, totally 12 models.

1.3 Convenient installation

1.3.1 The EXV is fixed inside the indoor unit ((for 71~160 model), no need extra connection.

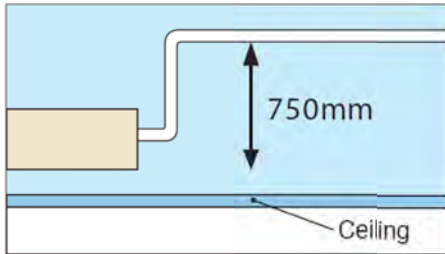
1.3.2 Standard filter with aluminum frame, which is removable downward from bottom.

1.3.3. Air plenum is included as standard equipment.

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

1.3.5 Optional drain pump (for 71~160 model).

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



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

1.3.7 Integrated electrical control box structure which is convenient for maintenance and installation.

1.4 Flexible control and convenient for maintenance

1.4.1 Standard wired controller KJR-29B1/BK-E, and wireless remote controller RM05/BG(T)E-A is as an option.

1.4.2 For 71~160 model, the display board is connected with the E-box in factory, which makes trouble-shooting easier by LED display. For 400~560 model, it owns new display transfer board. It is used in the indoor unit to collect the information of the control boards. The malfunction code and running state will display on the board.

1.4.3 Standard functional port such as remote On/Off dry contact.

2. Specifications

Model			TMVDHN071/I4WY0S	TMVDHN080/I4WY0S	TMVDHN090/I4WY0S
Power supply V- Ph-Hz			220-240V~, 1Ph, 50Hz		
Cooling	Capacity	kW	7.1	8.0	9.0
	Input	W	263	263	423
	Rated current	A	1.23	1.23	1.87
Heating	Capacity	kW	8.0	9.0	10.0
	Input	W	263	263	423
	Rated current	A	1.23	1.23	1.87
Max. input consumption		W	269	269	437
Max. current		A	1.23	1.23	1.87
Indoor fan motor	Model		YDK100-4X-2	YDK100-4X-2	YDK160-4C
	Type		AC Motor		
	Brand		Yong An	Yong An	WELLING
	Input	W	240	240	375
	Capacitor	μF	12	12	10
	Speed (h/m/l)	r/min	990/940/900	990/940/900	1335/1290/1235
Indoor coil	Number of rows		2	2	3
	Tube pitch(a) x row pitch(b)	mm	25.4x22	25.4x22	25.4x22
	Fin spacing	mm	1.5	1.5	1.6
	Fin type		Hydrophilic aluminum		
	Tube outside diameter and type	mm	Φ9.52 inner groove tube		
	lengthx heightx width	mm	700x356x44	700x356x44	700x356x66
	Number of circuits		3	3	7
Indoor air flow (H/M/L)		m ³ /h	1443/1361/1218	1416/1338/1220	1951/1741/1518
*Indoor external static pressure (H)		Pa	25(25~ 196)	37(37~ 196)	37(37~ 196)
Indoor noise level (H/M/L)		dB(A)	48/46/44	48/46/44.5	52/49/47
Indoor unit	Dimension (WxHxD)		952x420x690	952x420x690	952x420x690
	Packing (WxHxD)		1090x440x768	1090x440x768	1090x440x768
	Net/Gross weight		45/50	45/50	46.5/52.4
Refrigerant type			R410A		
Throttle	Type		EXV		
	Model		BD20FKS (Winding: DZF20XQ-1000-XHP-6)		
Design pressure (H/L)		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	3x2.5(L≤20m); 3x3.5(L≤50m)		
	Signal wiring	mm ²	3x0.75		
Drainage water pipe diameter			OD Φ32		
Controller			Wired controller KJR-29B1/BK-E (6 meters connection wire)		

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

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

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

High Static Pressure Duct Unit

Model			TMVDHN112/I4WY0S	TMVDHN140/I4WY0S	TMVDHN160/I4WY0S
Power supply V- Ph-Hz			220-240V~, 1Ph, 50Hz		
Cooling	Capacity	kW	11.2	14	16
	Input	W	524	724	940
	Rated current	A	2.3	2.85	4.77
Heating	Capacity	kW	12.5	16	17
	Input	W	524	2.85	940
	Rated current	A	2.3	2.7	4.77
Max. input consumption		W	528	724	940
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	720	930
	Capacitor	μF	15	12	15
	Speed (h/m/l)	r/min	1000/930/774	860/760/670	1080/920/850
Indoor coil	Number of rows		3	4	4
	Tube pitch(a) xrow pitch(b)	mm	25.4x22	25.4x22	25.4x22
	Fin spacing	mm	1.6	1.6	1.6
	Fin type		Hydrophilic aluminum		
	Tube outside diameter and type	mm	Φ9.52 inner groove tube		
	lengthx heightx width	mm	700x356x66	996x355.6x88	996x355.6x88
	Number of circuits		7	7	7
Indoor air flow (H/M/L)		m ³ /h	2116/1936/1520	3000/2618/2226	3620/3044/2744
*Indoor external static pressure (H)		Pa	50(50~ 196)	50(50~ 196)	50(50~ 196)
Indoor noise level (H/M/L)		dB(A)	52/49/47	53/50/48	54/52/50
Indoor unit	Dimension (WxHxD)	mm	952x420x690	1300x420x690	1300x420x690
	Packing (WxHxD)	mm	1090x440x768	1436x450x768	1436x450x768
	Net/Gross weight	kg	50.6/56	68/70	70/77.5
Refrigerant type			R410A		
Throttle	Type	EXV			
	Model	BD20FKS, (Winding: DZF20XQ-1000-XHP-6)			
Design pressure(H/L)		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	3x2.5(L≤20m); 3x3.5(L≤50m)		
	Signal wiring	mm ²	3x0.75		
Drainage water pipe diameter			OD Φ32		
Controller			Wired controller KJR-29B1/BK-E (6 meters connection wire)		

Notes: 1. Nominal cooling capacities are based on the following conditions: return air temperature : 27°CDB, 19°CWB, outdoor air temperature:35°CDB,equivalent ref. Piping: 8m(horizontal)
2. Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB,outdoor air temperature: 7°CDB,6°CWB,equivalent ref. Piping: 8m(horizontal)
3. *This is the available static pressure range which means the unit can run stably in this static pressure range, and the optimal static pressure range please refers to the Installation Manual. When choosing any static pressure which is out of optimal static pressure range, risk like bigger noise, lower air flow volume etc. should be considered in advanced.

Model			TMVDHN200/I4RN1S	TMVDHN250/I4RN1S	TMVDHN280/I4RN1S
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	8.6	8.6	8.6
Heating	Capacity	kW	22.5	26.0	31.5
	Input	W	1516	1516	1516
	Rated current	A	8.6	8.6	8.6
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		Man Qi Wei	Man Qi Wei	Man Qi Wei
	Input	W	916/800/675(x2)	916/800/675(x2)	916/800/675(x2)
	Capacitor	μF	12(x2)	12(x2)	15(x2)
	Speed (h/m/l)	r/min	1200/1065/925(x2)	1200/1065/925(x2)	1200/1065/925(x2)
Indoor coil	Number of rows		4	4	4
	Tube pitch(a) xrow	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		
	lengthx height x width	mm	1125x508x88	1125x508x88	1125x512x88
	Number of circuits		20	20	20
Indoor air flow (H/M/L)		m ³ /h	4700/4100/3599	4700/4100/3599	4700/4100/3599
*Indoor external static pressure (H)		Pa	200(50~280)	200(50~280)	200(50~280)
Indoor noise level (H/M/L)		dB(A)	59/55/52	59/55/52	59/55/52
Indoor unit	Dimension (WxHxD)		1443x470x810	1443x470x810	1443x470x810
	Packing (WxHxD)		1509x550x990	1509x550x990	1509x550x990
	Net/Gross weight		115/129	115/129	115/129
Refrigerant type			R410A		
Throttle	Type		EXV (2 sets throttle boxes each unit)		
	Model		BD24FKS(L) (Winding: PXR-6-L400-XHP6R/AMP6BL-P)		
Design pressure(H/L)		MPa	4.4/2.6		
Refrigerant piping	Liquid / Gas	mm	Φ9.53/ Φ15.9 (x2)	Φ9.53/ Φ15.9 (x2)	Φ9.53/ Φ15.9 (x2)
Connecting wiring	Power wiring	mm ²	3x2.5(L≤20m); 3x3.5(L≤50m)		
	Signal wiring	mm ²	3x0.75		
Drainage water pipe diameter			OD Φ32		
Controller			Wired controller KJR-29B1/BK-E (6 meters connection wire)		

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

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

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

High Static Pressure Duct Unit

Model			TMVDHN400/I4RN1S	TMVDHN450/I4RN1S	TMVDHN560/I4RN1S
Power supply V- Ph-Hz			220-240V~, 1Ph, 50Hz		
Cooling	Capacity	kW	40.0	45.0	56.0
	Input	W	2700	2700	3400
	Rated current	A	12.5	12.5	15.5
Heating	Capacity	kW	45	50.0	63.0
	Input	W	2700	2700	3400
	Rated current	A	12.5	12.5	15.5
Max. input consumption		W	2700	2700	3400
Max. current		A	13.5	13.5	15.5
Indoor fan motor	Model		YDK550-4X (x3)	YDK550-4X (x3)	YDK550-4X (x3)
	Type		AC Motor		
	Brand		Yong An		
	Input	W	916/800/675(x3)	916/800/675(x3)	1130/990/850(x3)
	Capacitor	μF	15(x3)	15(x3)	15(x3)
	Speed (h/m/l)	r/min	1200/1065/935(x3)	1200/1065/935(x3)	1280/1135/975(x3)
Indoor coil	Number of rows		5	5	5
	Tube pitch(a) x row	mm	21x13.37	21x13.37	21x13.37
	Fin spacing	mm	1.5	1.5	1.5
	Fin type		Hydrophilic aluminum		
	Tube outside diameter and type	mm	Φ7 Inner groove tube		
	lengthx heightx width	mm	1602x588x67	1602x588x67	1602x588x67
	Number of circuits		28	28	28
Indoor air flow (H/M/L)		m ³ /h	7472/6072/4995	7472/6072/4995	9550/7950/6600
*Indoor external static pressure (H)		Pa	200(50~280)	200(50~280)	200(50~280)
Indoor noise level (H/M/L)		dB(A)	61/59/56	61/59/56	63/60/57
Indoor unit	Dimension (WxHxD)	mm	1970x668x902.5	1970x668x902.5	1970x668x902.5
	Packing (WxHxD)	mm	2095x800x964	2095x800x964	2095x800x964
	Net/Gross weight	kg	232/245	232/245	235/250
Refrigerant type			R410A		
Throttle	Type		EXV (4 sets throttle boxes each unit)		
	Model		BD24FKS(L)		
Design pressure(H/L)		MPa	4.4/2.6		
Refrigerant piping	Liquid / Gas	mm	Φ9.53 / Φ22.2(x2)	Φ9.53 / Φ22.2(x2)	Φ9.53 / Φ22.2(x2)
Connecting wiring	Power wiring	mm ²	3x2.5(L≤20m); 3x3.5(L≤50m)		
	Signal wiring	mm ²	3x0.75		
Drainage water pipe diameter			OD Φ32		
Controller			Wired controller KJR-29B1/BK-E (6 meters connection wire)		

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

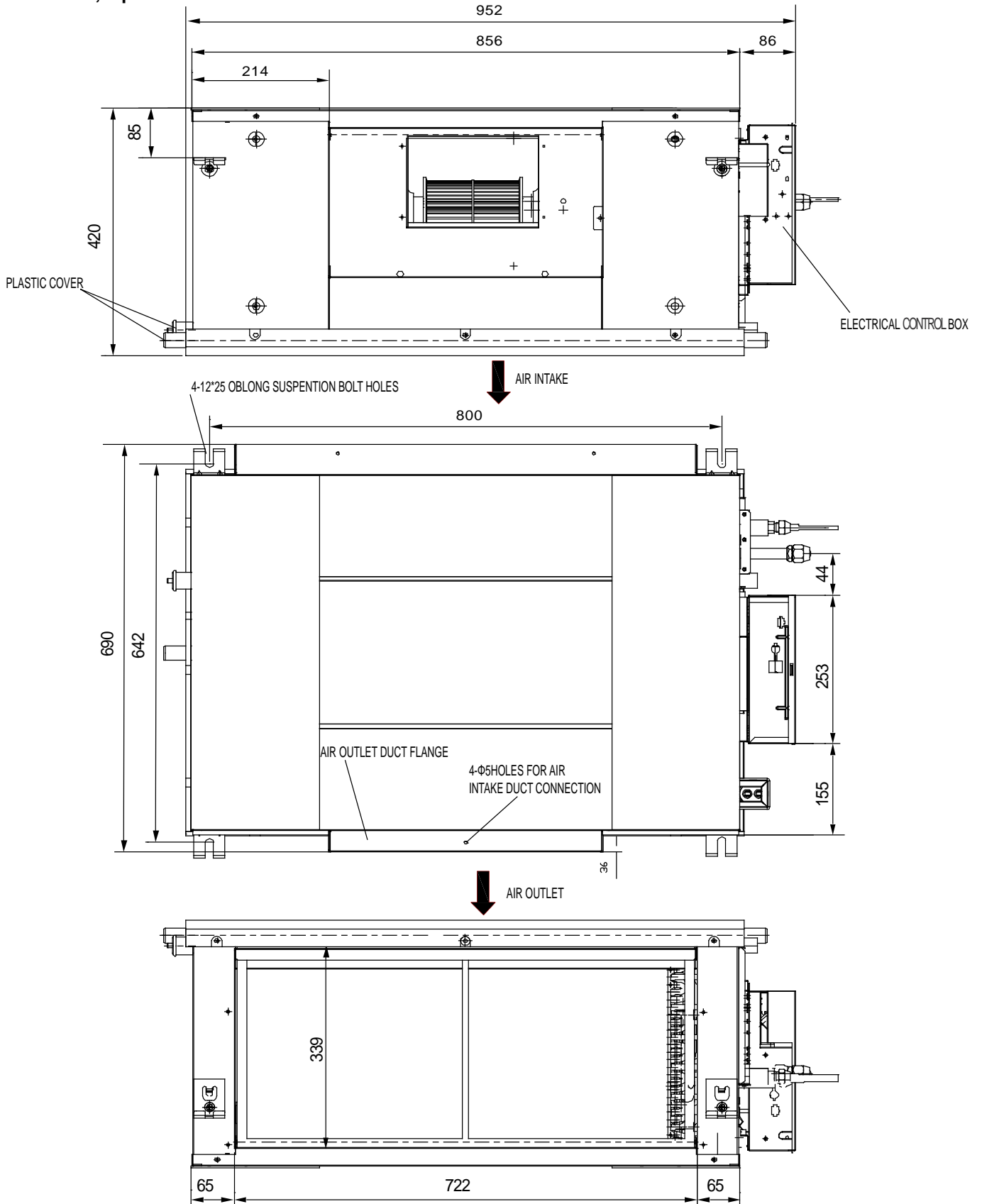
2. Nominal heating capacities are based on the following conditions: return air temperature: 20°CDB, outdoor air temperature: 7°CDB, 6°CWB, equivalent ref. Piping: 8m(horizontal)

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

3. Dimensions

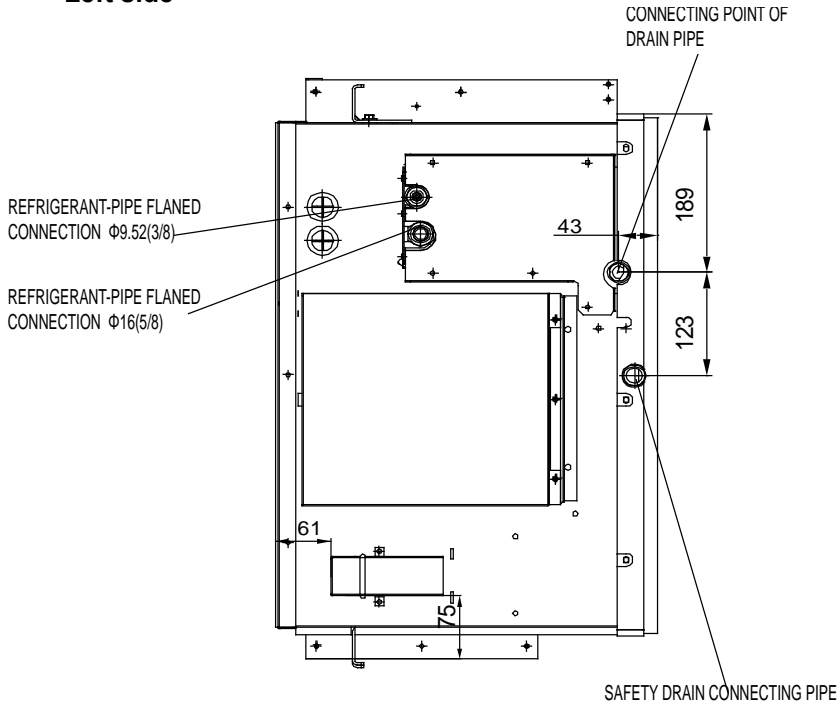
TMVDHN71/I4RN1S TMVDHN80/I4RN1S TMVDHN/I4RN1S TMVDHN112/I4RN1S

Front view, top view and rear view:

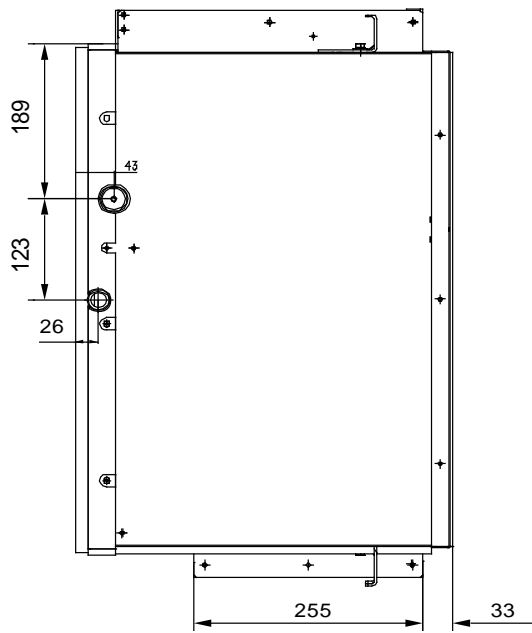


Side view:

- Left side**

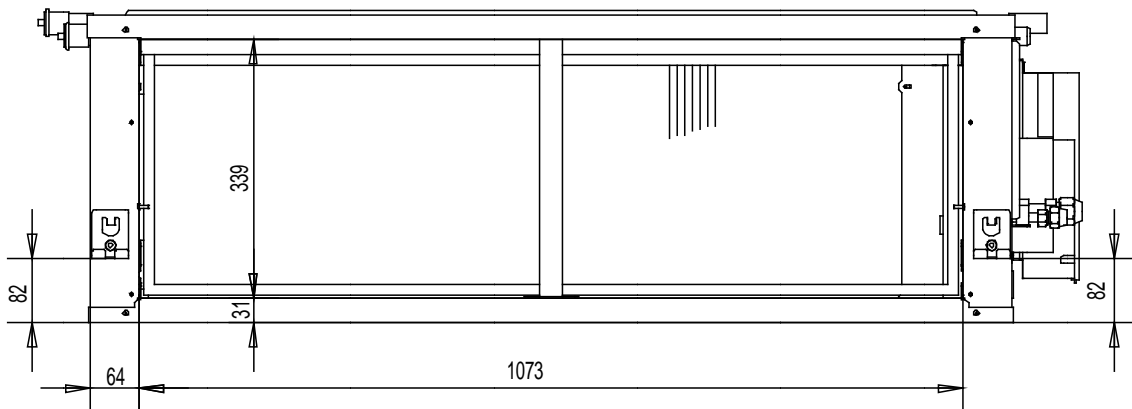
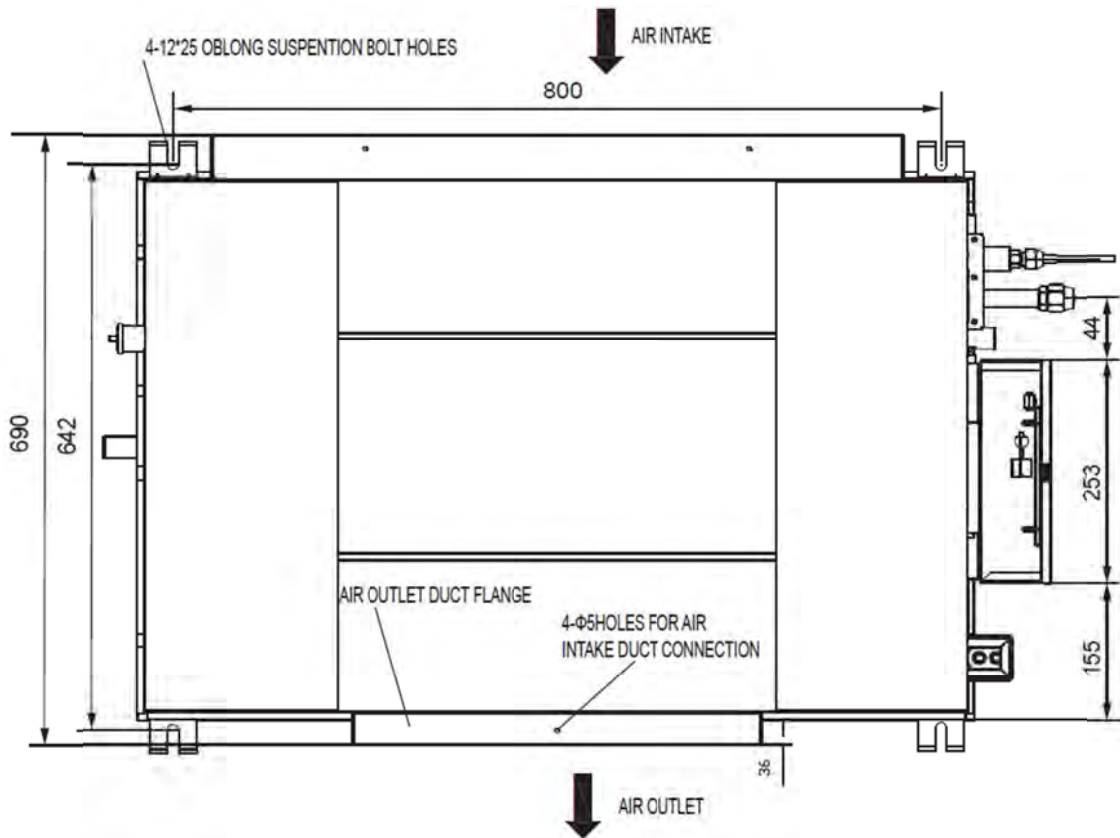
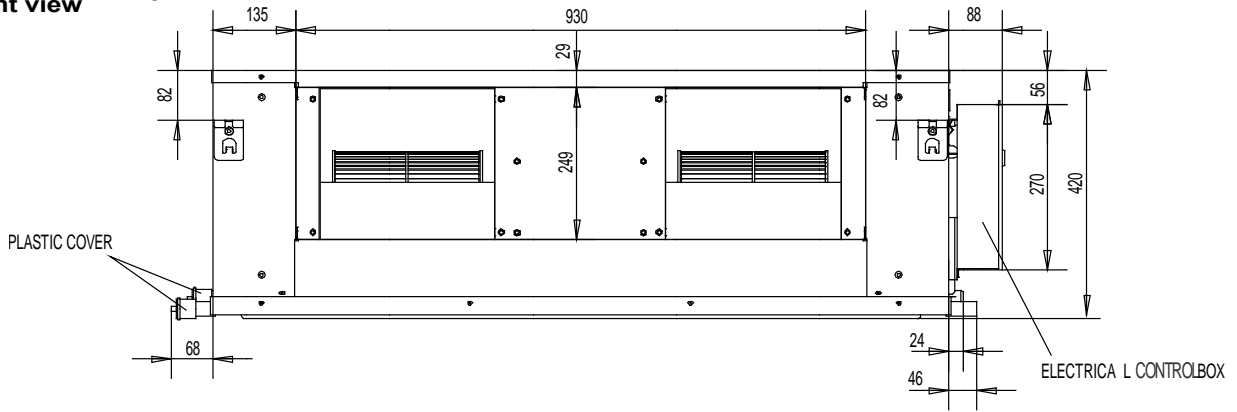


- Right side**



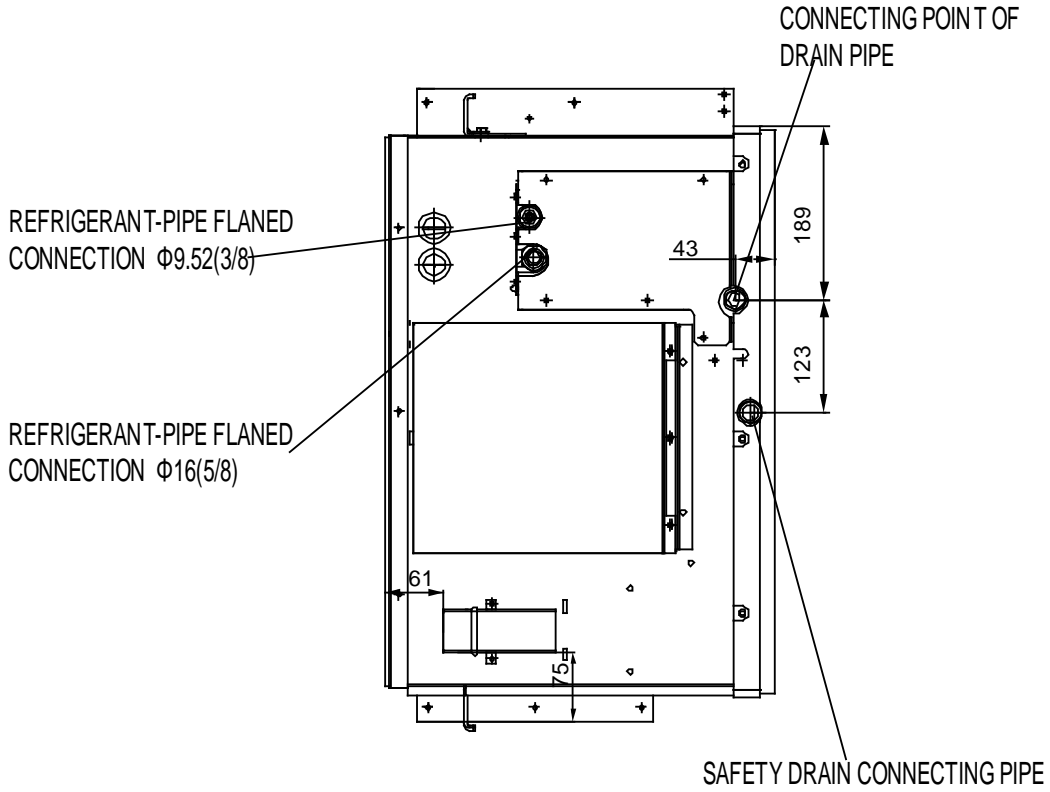
TMVDHN71/I4RN1S TMVDHN160/I4RN1S

Front view , top view and rear view

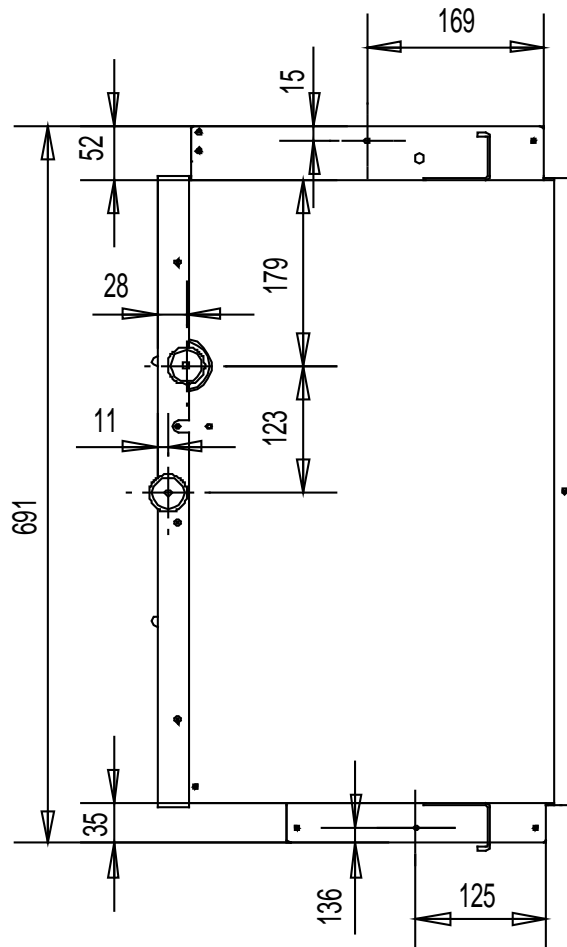


Side view:

- **Left side**

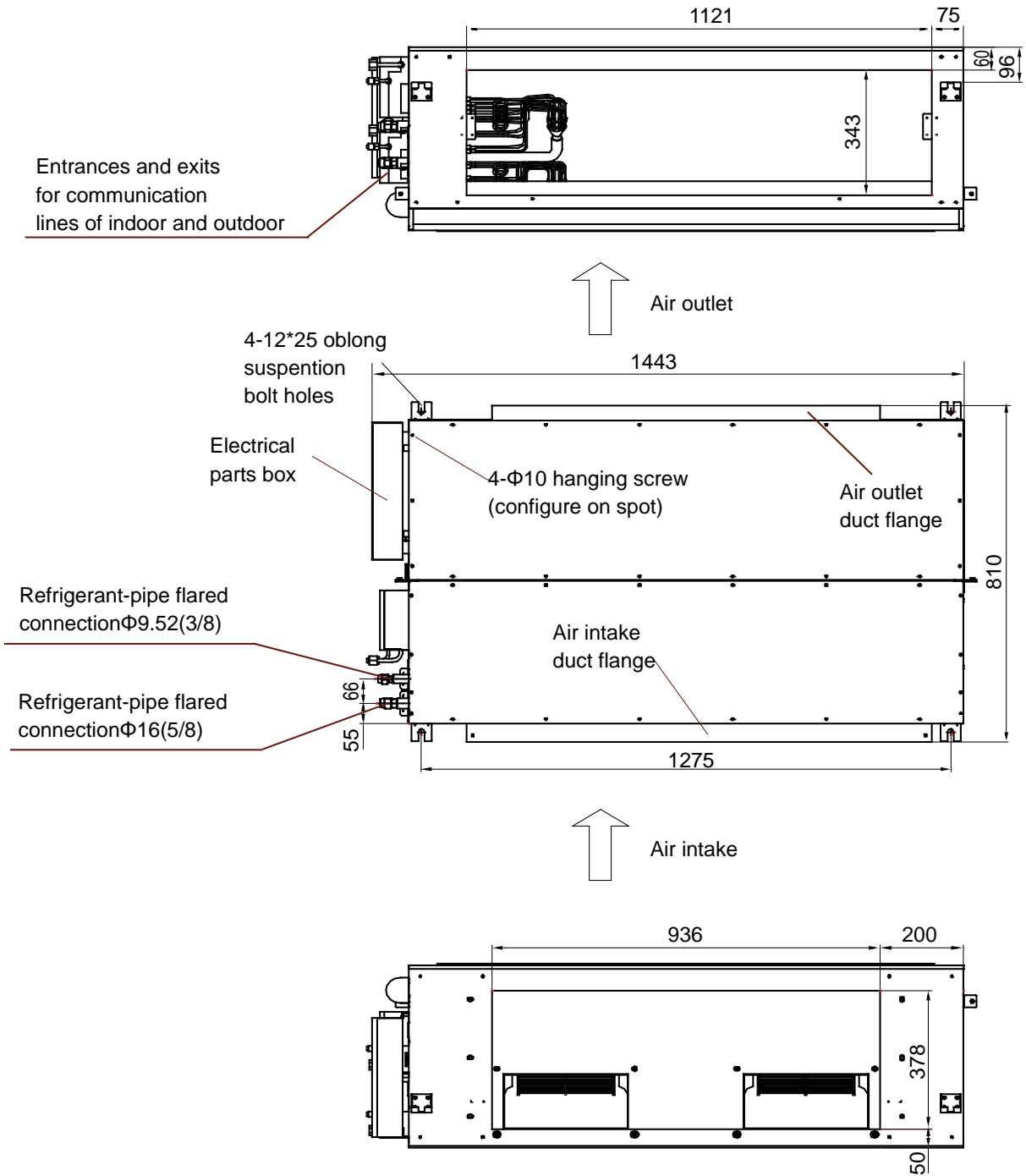


- **Right side**

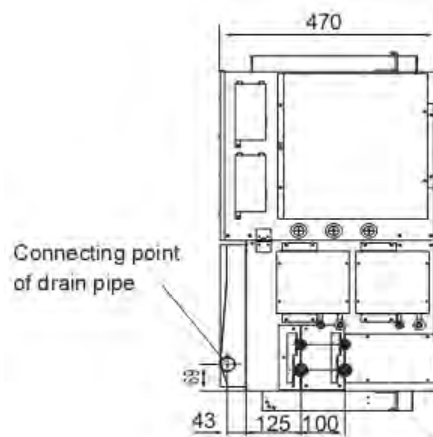


TMVDHN200/I4RN1S TMVDHN250/I4RN1S TMVDHN280/I4RN1S

Front view, top view and rear view:

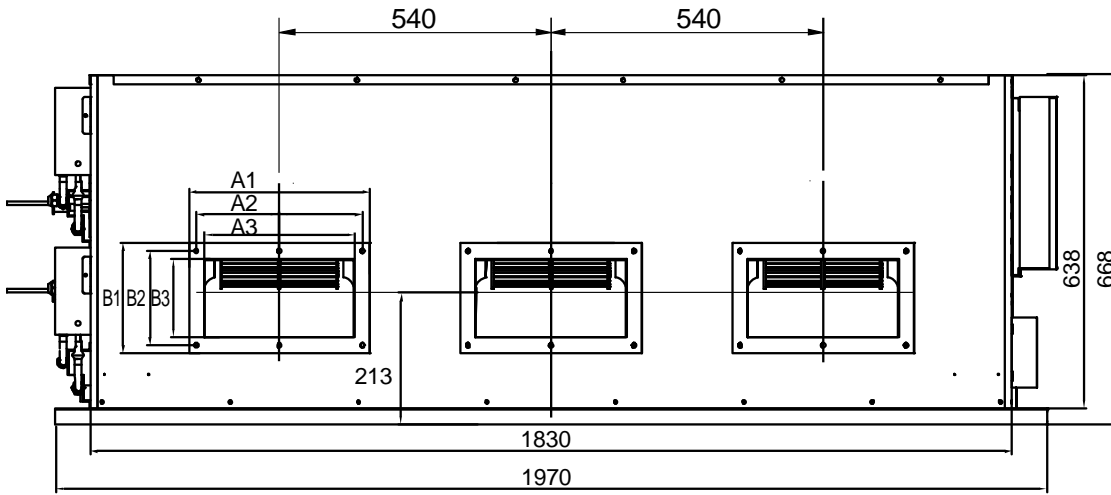


Side view:



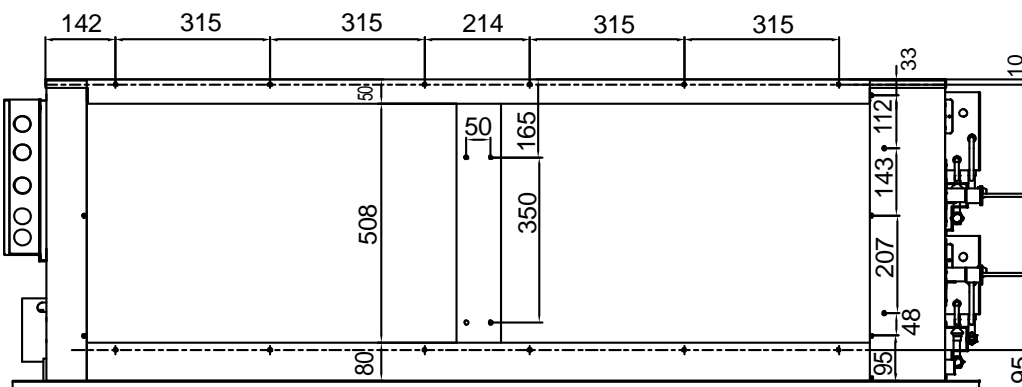
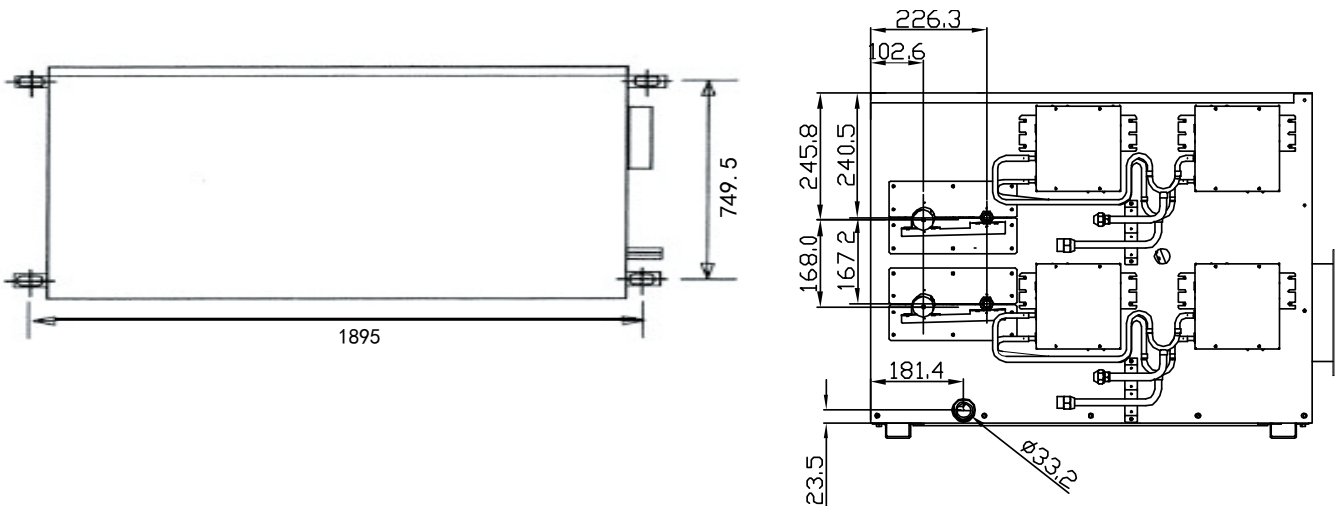
TMVDHN400/I4RN1S TMVDHN450/I4RN1S TMVDHN560/I4RN1S

Unit: mm



Front View (Air supply outlet)

	TMVDHN250/I4RN1S (50Hz)	TMVDHN400/I4RN1S (50Hz)	TMVDHN560/I4RN1S (50Hz)
A1	360	360	394
A2	330	330	364
A3	300	300	334
B1	210	210	247
B2	180	180	217
B3	150	150	187



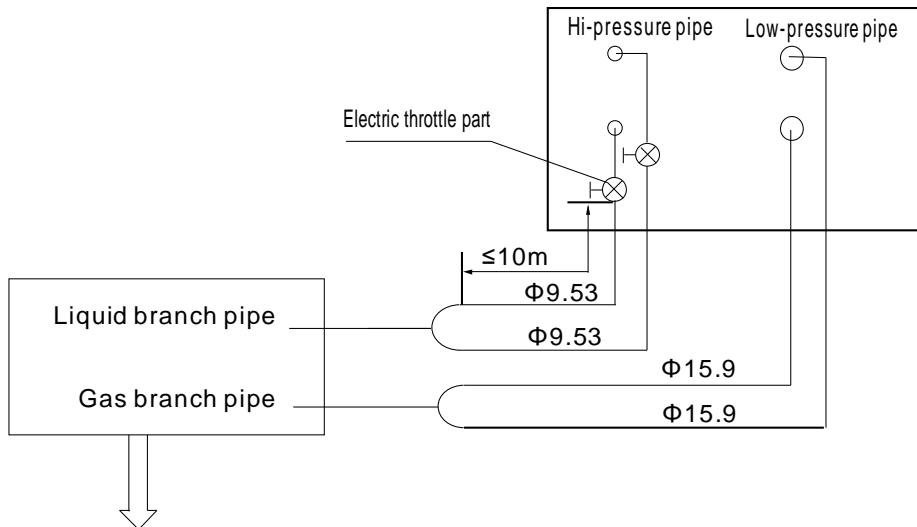
Rear view (Air return inlet)

Key points about the 200, 250, 280,400,450,560 model installation:

There're two sets of EXV boxes in 200,250 & 280 model and four sets of EXV boxes in 400,450 & 560 model , 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.

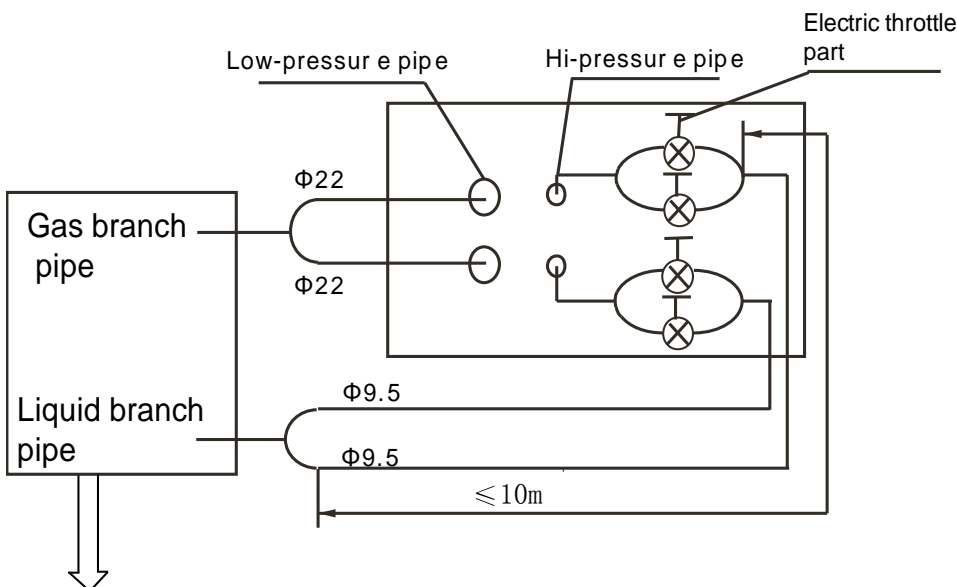
The branch header (1 set) already includes 1 gas and 1 liquid branch joint. Please kindly check the accessory and follow the instructions while install the indoor units and piping.

For 200,250,280 model:



The piping diameter please refer to the manual of the outdoor unit you choose.

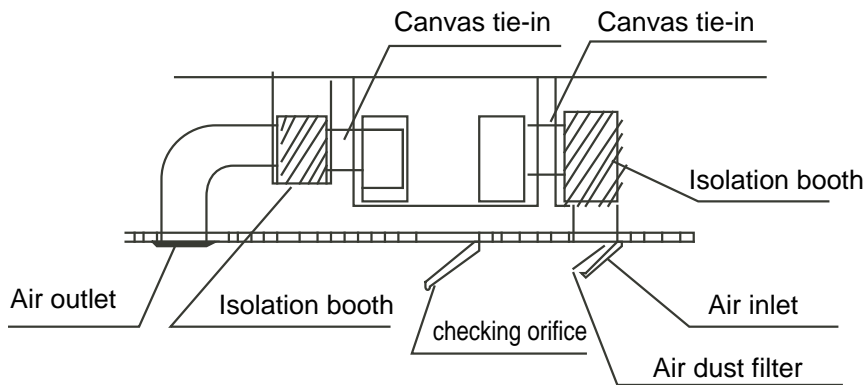
For 400,450 & 560 model



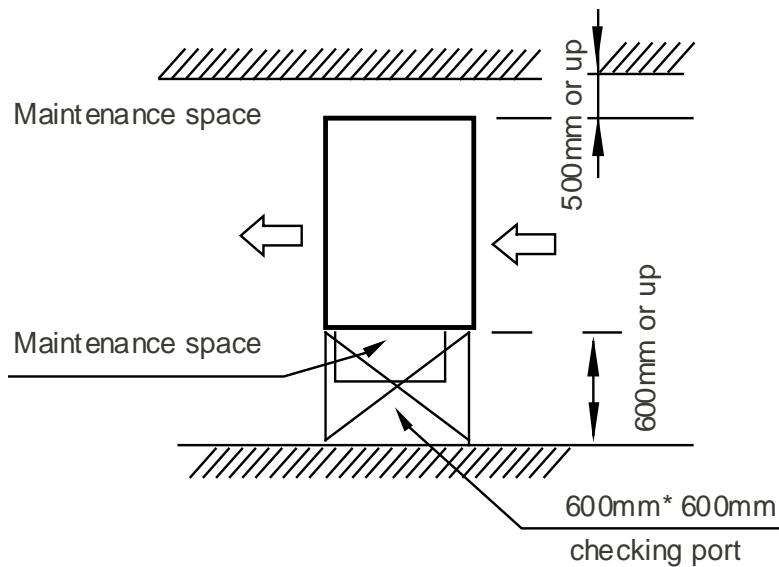
The piping diameter please refer to the manual of the outdoor unit you choose .

4. Service Spaces

- 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:**

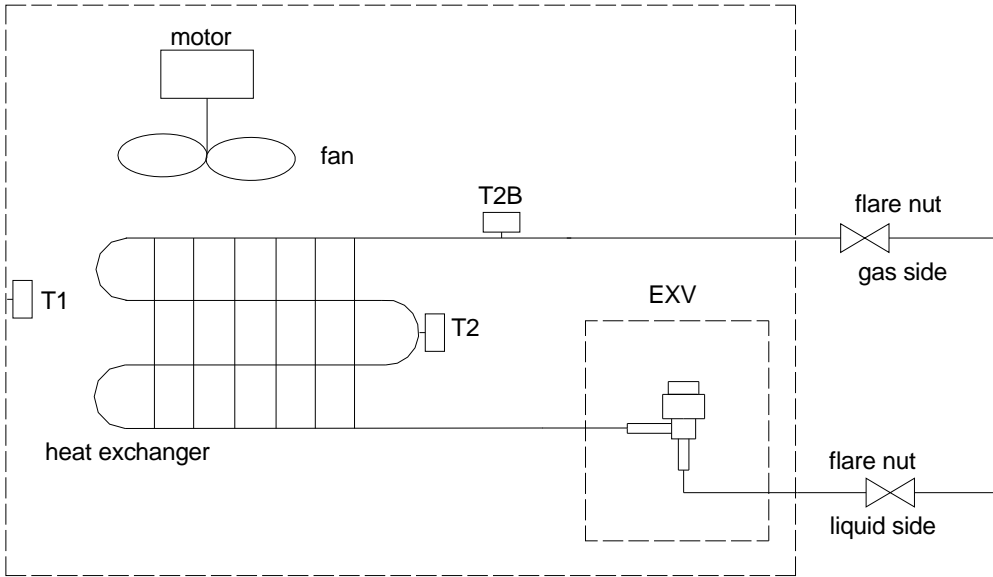


- **Keep min. 600*600 space for checking & maintenance:**

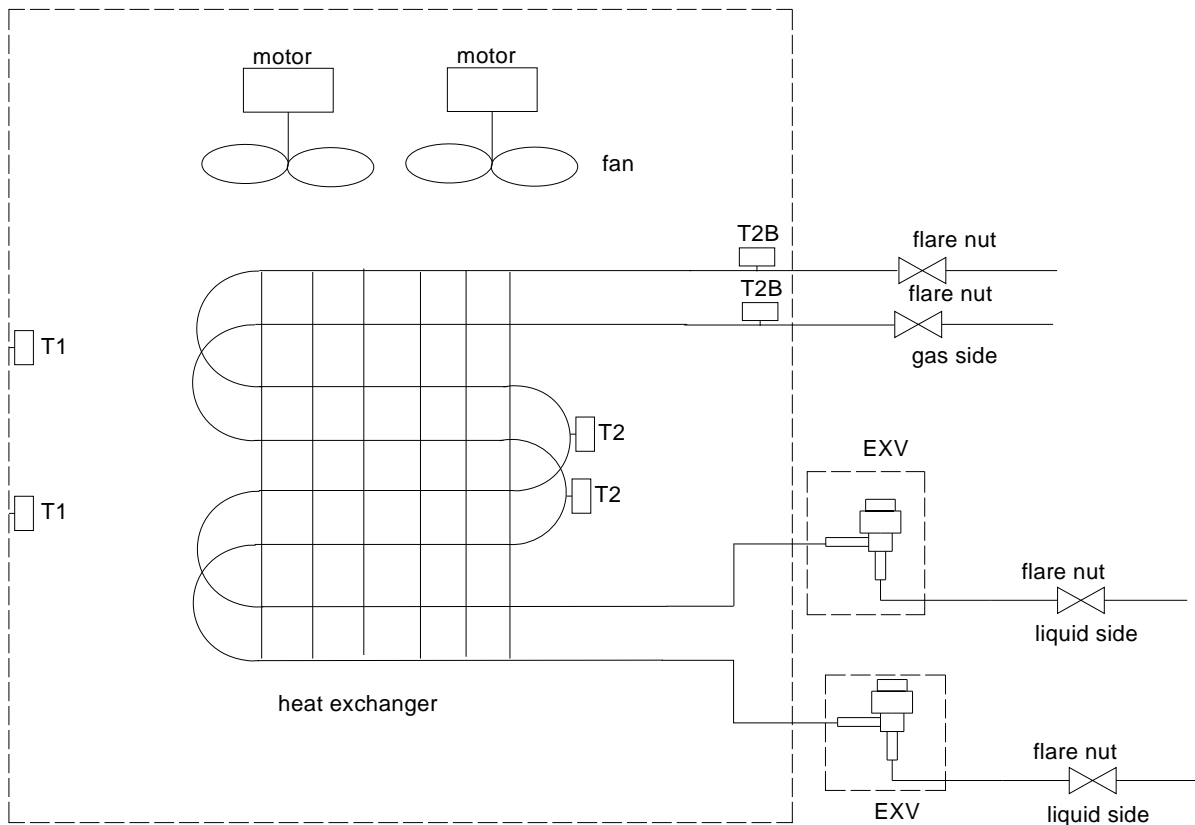


5. Piping Diagrams

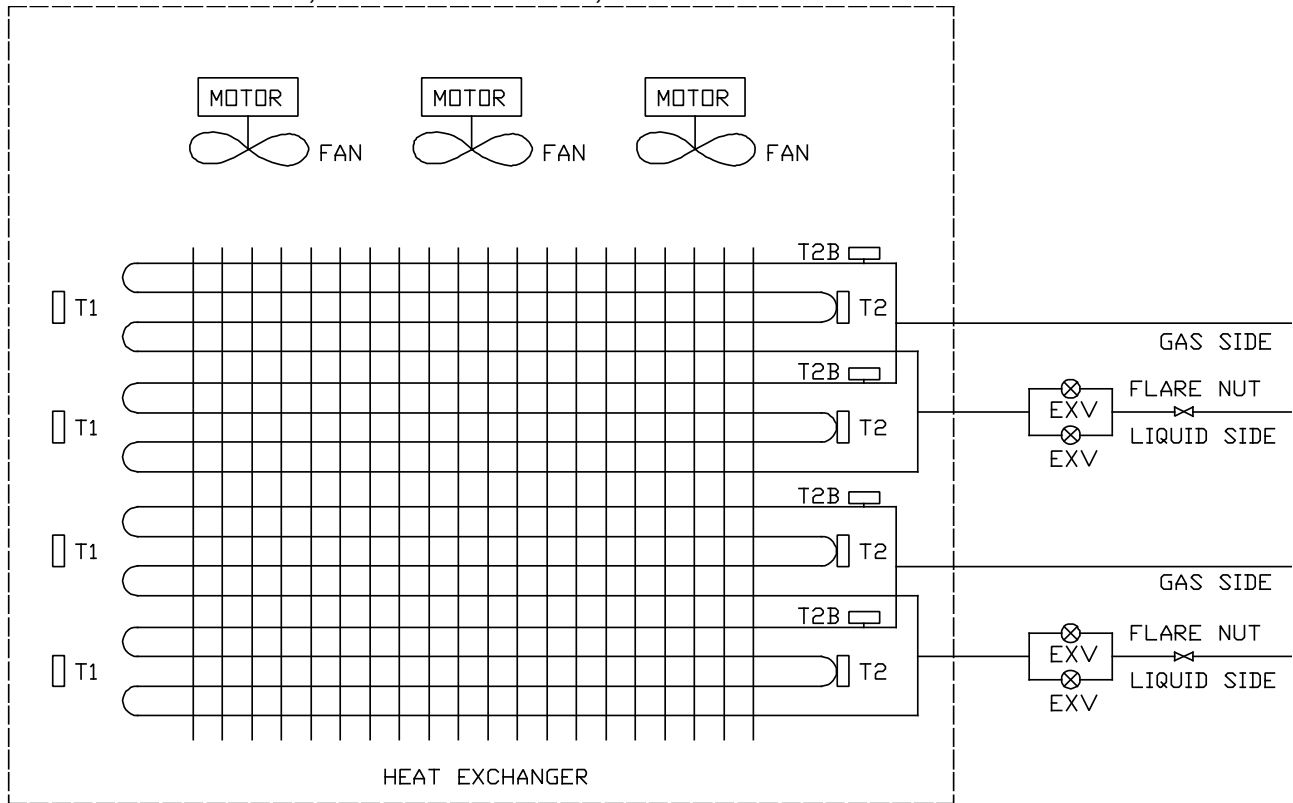
TMVDHN71/I4RN1S, TMVDHN80/I4RN1S, TMVDHN90/I4RN1S, TMVDHN112/I4RN1S, TMVDHN140/I4RN1S, TMVDHN160/I4RN1S



TMVDHN200/I4RN1S, TMVDHN250/I4RN1S, TMVDHN280/I4RN1S

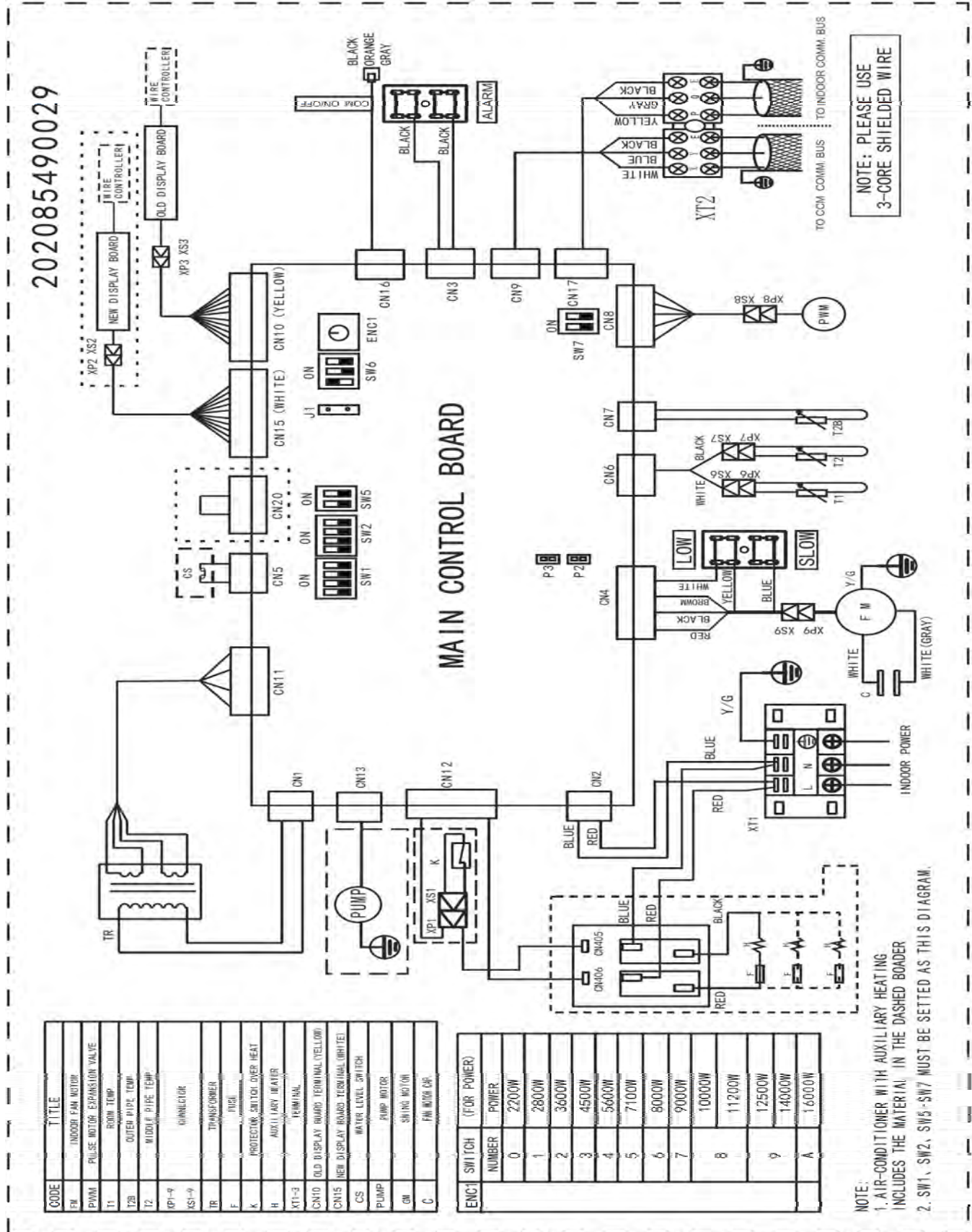


TMVDHN400/I4RN1S, TMVDHN450/I4RN1S, TMVDHN560/I4RN1S

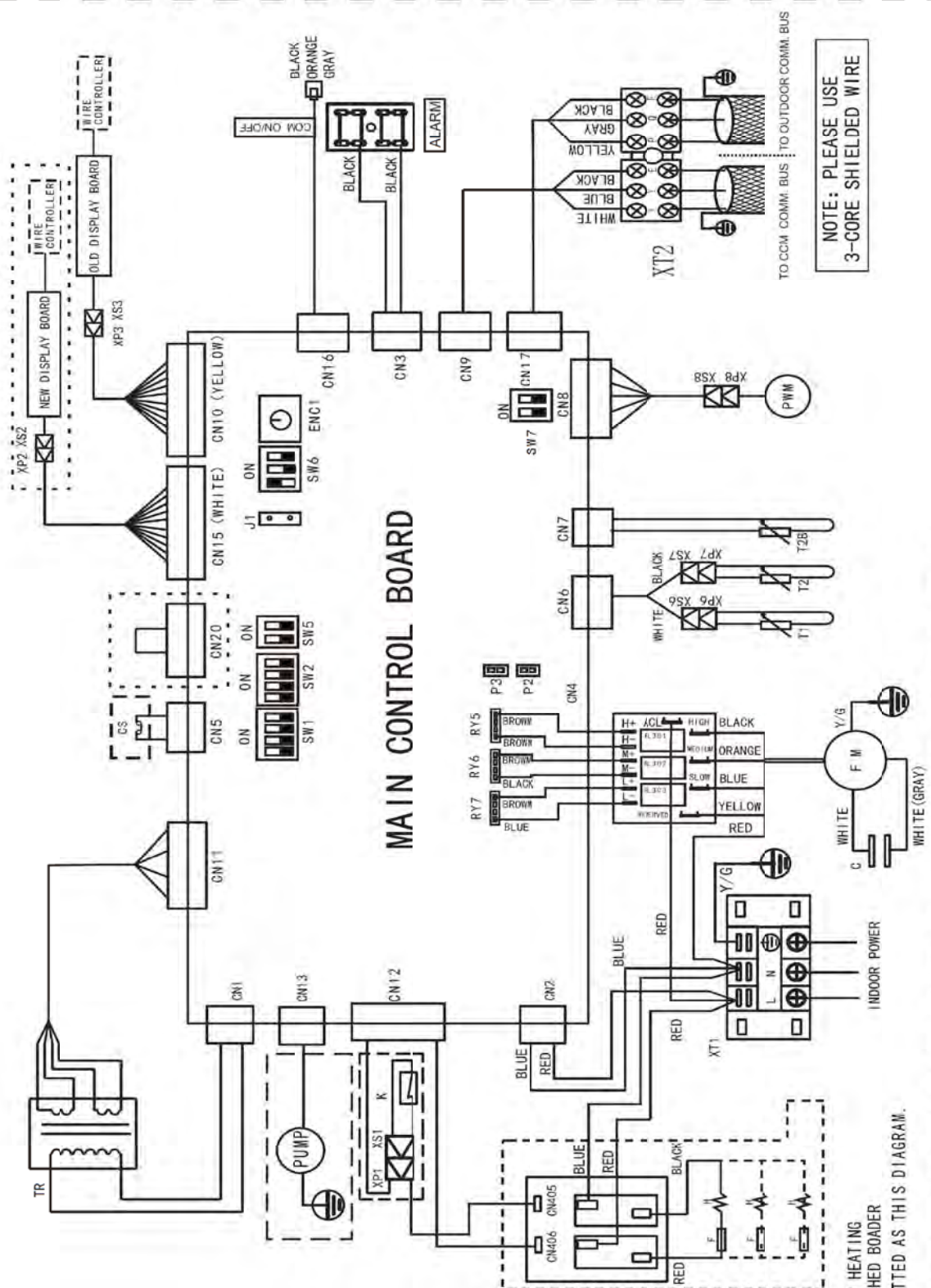


6. Wiring Diagrams

TMVDHN71/I4RN1S, TMVDHN80/I4RN1S, TMVDHN90/I4RN1S



202085790015



MAIN CONTROL BOARD

NOTE: PLEASE USE 3-CORE SHIELDED WIRE

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	CONNECTOR
TR	TRANSFORMER
F	FUSE
K	PROTECTOR SWITCH OVER HEAT
H	AUXILIARY HEATER
XT1-3	TERMINAL
CN10	OLD DISPLAY BOARD TERMINAL (YELLOW)
CN15	NEW DISPLAY BOARD TERMINAL (WHITE)
CS	WATER LEVEL SWITCH
PUMP	PUMP MOTOR
GN	SWING MOTOR
C	FAN MOTOR CAP.

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
A	16000W

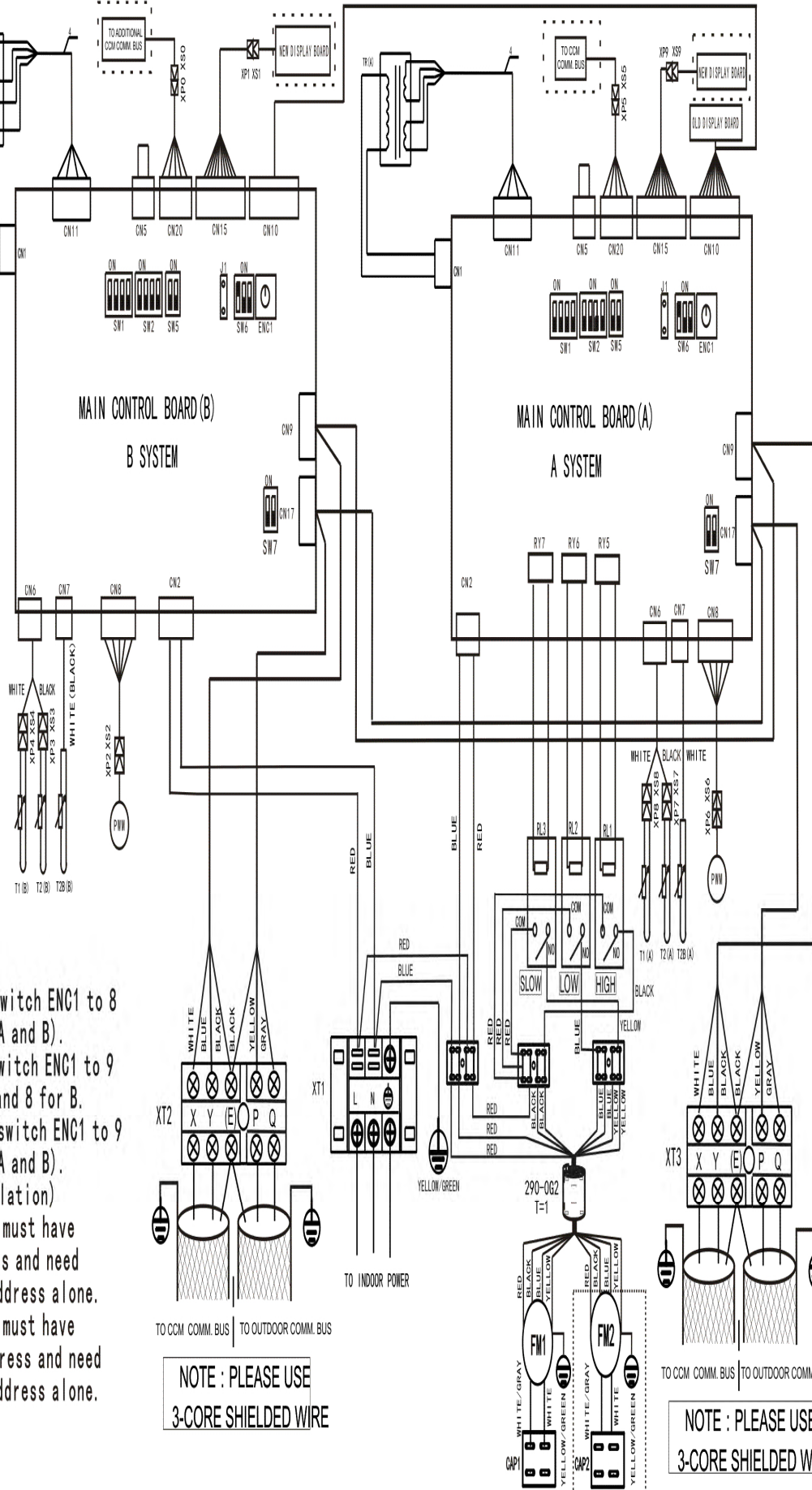
NOTE:
 1. AIR-CONDITIONER WITH AUXILIARY HEATING INCLUDES THE MATERIAL IN THE DASHED BORDER
 2. SW1, SW2, SW5-SW7 MUST BE SETTED AS THIS DIAGRAM.

TMVDHN200/I4RN1S TMVDHN250/I4RN1S TMVDHN280/I4RN1S

202085890069

ENG1 SWITCH (FOR POWER)	
NUMBER	POWER
0	2200W (0.8HP)
1	2800W (1.0HP)
2	3600W (1.2HP)
3	4500W (1.5HP)
4	5600W (2.0HP)
5	7100W (2.5HP)
6	8000W (3.0HP)
7	9000W (3.2HP)
8	11200W (4.0HP)
9	14000W (5.0HP)

CODE	PART NAME
FM1 (FM2)	INDOOR FAN
PWM	PULSE MOTOR EXPANSION VALVE
T1(A), T1(B)	ROOM TEMP
T2B(A), T2B(B)	OUTER PIPE TEMP
T2(A), T2(B)	MIDDLE PIPE TEMP
XPO-9 XSO-9	CONNECTOR
XT1	3-WAY TERMINAL
TR(A), TR(B)	TRANSFORMER
XT2, XT3	5-WAY TERMINAL
RL1-3	RELAY
CAP1 (CAP2)	FAN CAP
290-0G2	FERRITE BEAD



NOTICE: (for factory)

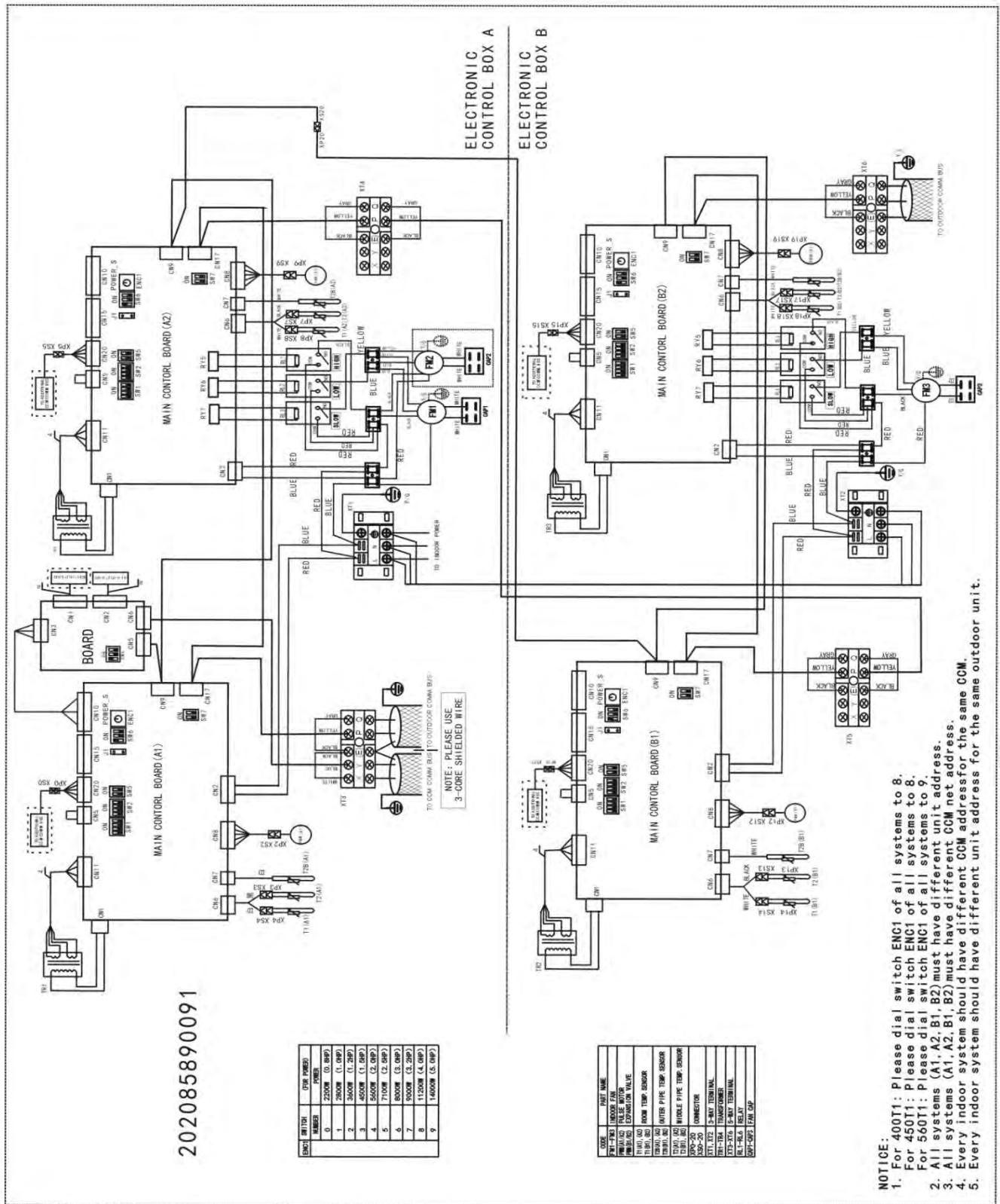
- 1. For 8HP: Please dial switch ENC1 to 8 (both system A and B).
- For 9HP: Please dial switch ENC1 to 9 for system A and 8 for B.
- For 10HP: Please dial switch ENC1 to 9 (both system A and B).

IMPORTANT: (for installation)

- 2. System A and system B must have different unit address and need to be set different address alone.
- 3. System A and system B must have different CCM net address and need to be set different address alone.

NOTE : PLEASE USE 3-CORE SHIELDED WIRE

NOTE : PLEASE USE 3-CORE SHIELDED WIRE

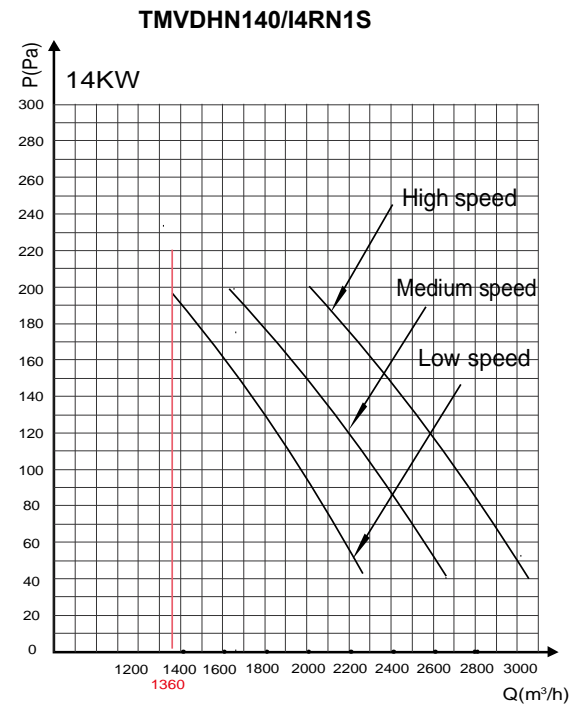
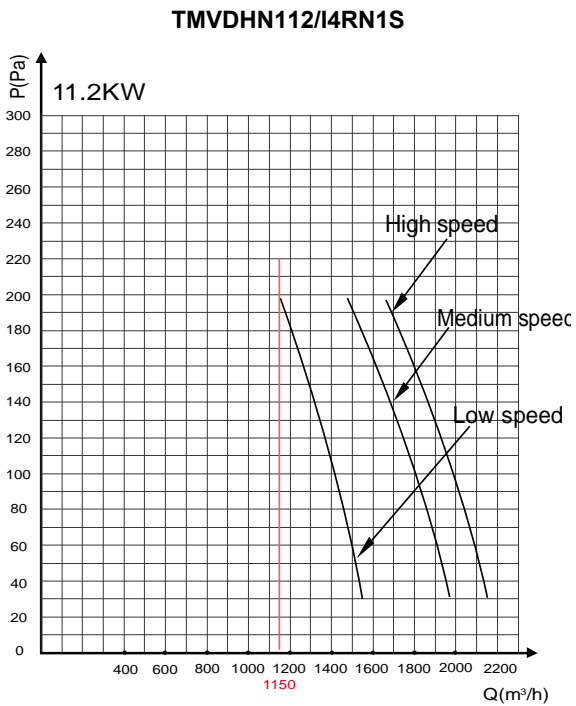
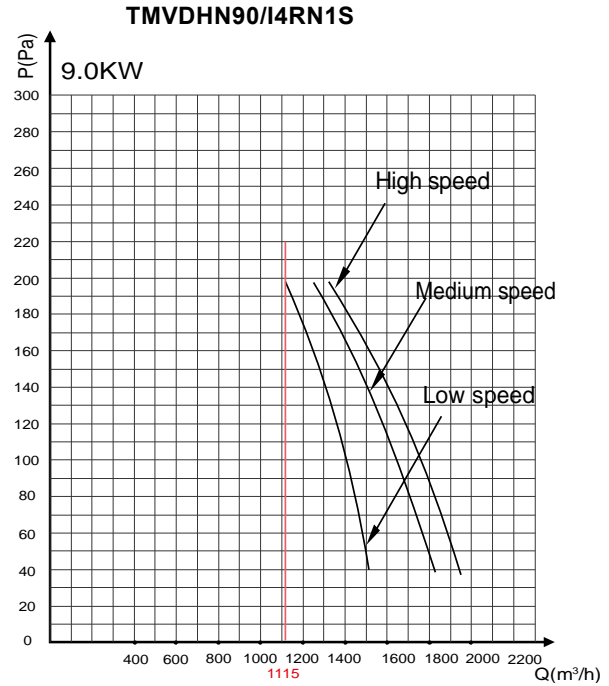
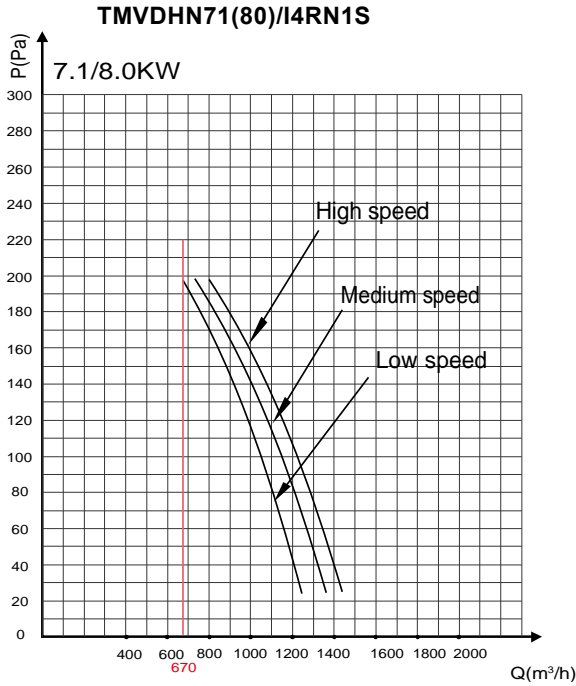


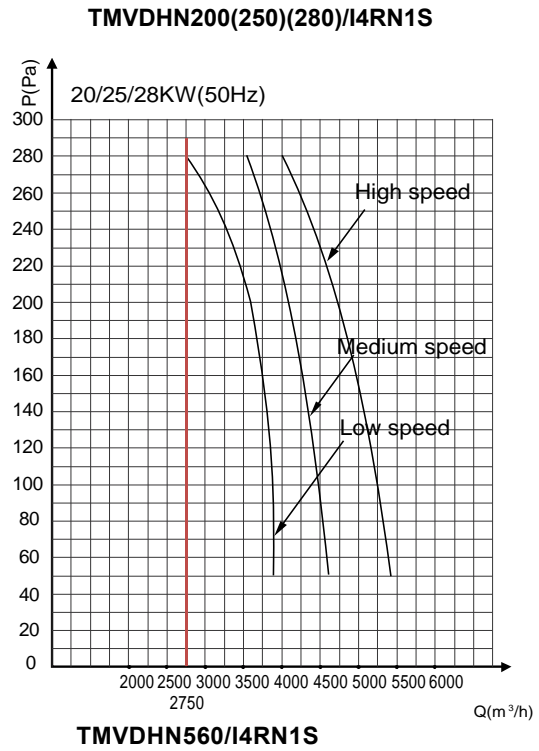
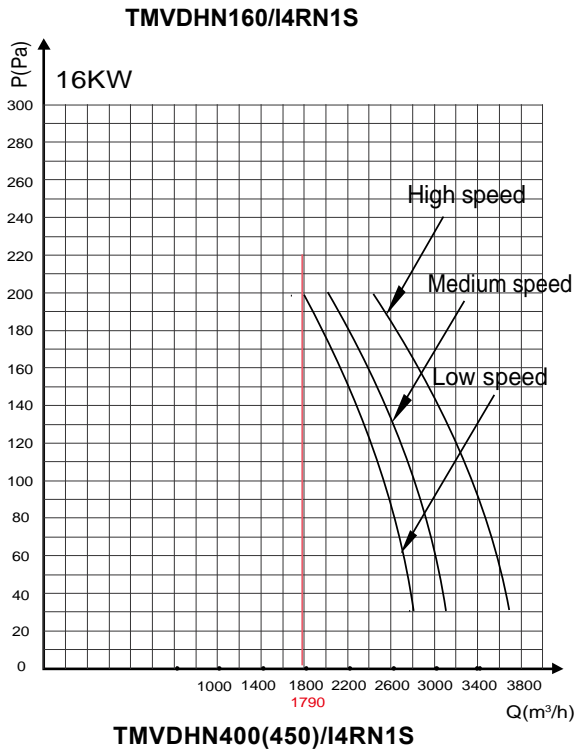
7. Fan Performance

How to Read the Diagram

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

Therefore in the case of **112T1** Type, the air flow is **1520 m³/h** , while the External Static Pressure is **50Pa** at “L” position. And **2115 m³/h @ 50Pa**, at ‘L’ position.

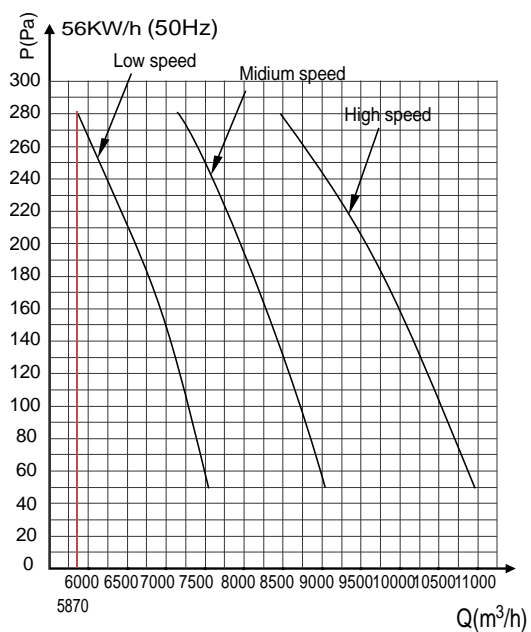
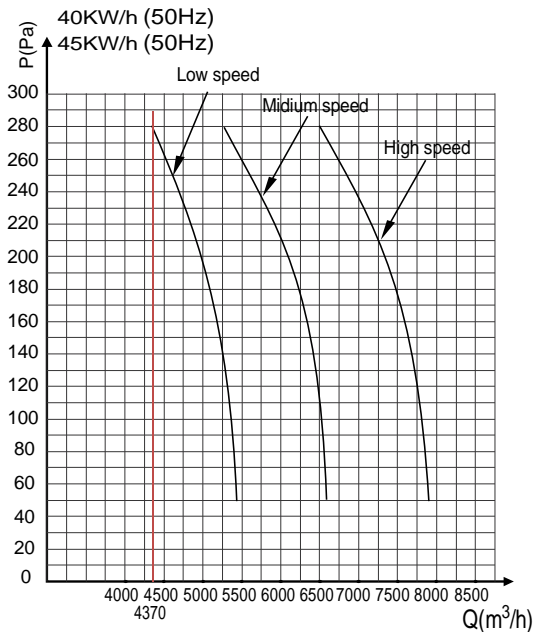




TMVDHN400(450)/I4RN1S

TMVDHN560/I4RN1S

High Static Pressure Type



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

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
7.1	10.0	4.9	4.3	5.8	4.7	6.7	5.3	7.1	5.4	7.5	5.4	8.4	5.6	9.2	5.6
	12.0	4.9	4.3	5.8	4.7	6.7	5.3	7.1	5.4	7.5	5.4	8.4	5.6	9.1	5.5
	14.0	4.9	4.3	5.8	4.7	6.7	5.3	7.1	5.4	7.5	5.4	8.4	5.6	9.0	5.5
	16.0	4.9	4.3	5.8	4.7	6.7	5.3	7.1	5.4	7.5	5.4	8.4	5.6	8.9	5.4
	18.0	4.9	4.3	5.8	4.7	6.7	5.3	7.1	5.4	7.5	5.4	8.4	5.6	8.7	5.2
	20.0	4.9	4.3	5.8	4.7	6.7	5.3	7.1	5.4	7.5	5.4	8.4	5.6	8.5	5.2
	21.0	4.9	4.3	5.8	4.7	6.7	5.3	7.1	5.4	7.5	5.4	8.4	5.6	8.4	5.1
	23.0	4.9	4.3	5.8	4.7	6.7	5.3	7.1	5.4	7.5	5.4	8.3	5.6	8.3	5.0
	25.0	4.9	4.3	5.8	4.7	6.7	5.3	7.1	5.4	7.5	5.4	8.2	5.5	8.2	5.0
	27.0	4.9	4.3	5.8	4.7	6.7	5.3	7.1	5.4	7.5	5.4	8.2	5.5	8.2	5.0
	29.0	4.9	4.3	5.8	4.7	6.7	5.3	7.1	5.4	7.5	5.4	8.1	5.4	8.1	5.0
	31.0	4.9	4.3	5.8	4.7	6.7	5.3	7.1	5.4	7.5	5.4	8.0	5.4	7.8	4.8
	33.0	4.9	4.3	5.8	4.7	6.7	5.3	7.1	5.4	7.5	5.4	8.0	5.3	7.8	4.8
	35.0	4.9	4.3	5.8	4.7	6.7	5.3	7.1	5.4	7.5	5.3	7.7	5.1	7.7	4.8
	37.0	4.9	4.3	5.8	4.7	6.7	5.3	7.1	5.4	7.4	5.3	7.7	5.1	7.6	4.8
	39.0	4.9	4.3	5.8	4.7	6.7	5.3	7.1	5.4	7.2	5.2	7.4	5.0	7.6	4.8
42.0	4.9	4.3	5.8	4.7	6.7	5.3	7.1	5.4	7.2	5.2	7.4	5.0	7.6	4.8	
44.0	4.9	4.3	5.8	4.7	6.7	5.3	7.1	5.4	7.2	5.2	7.4	5.0	7.6	4.8	
46.0	4.9	4.3	5.8	4.7	6.7	5.3	7.1	5.4	7.2	5.2	7.4	5.0	7.6	4.8	
8.0	10.0	5.5	4.8	6.5	5.3	7.5	5.9	8.0	6.0	8.5	6.0	9.5	6.3	10.4	6.3
	12.0	5.5	4.8	6.5	5.3	7.5	5.9	8.0	6.0	8.5	6.0	9.5	6.3	10.2	6.2
	14.0	5.5	4.8	6.5	5.3	7.5	5.9	8.0	6.0	8.5	6.0	9.5	6.3	10.2	6.1
	16.0	5.5	4.8	6.5	5.3	7.5	5.9	8.0	6.0	8.5	6.0	9.5	6.3	10.0	6.0
	18.0	5.5	4.8	6.5	5.3	7.5	5.9	8.0	6.0	8.5	6.0	9.5	6.3	9.8	5.9
	20.0	5.5	4.8	6.5	5.3	7.5	5.9	8.0	6.0	8.5	6.0	9.5	6.3	9.6	5.8
	21.0	5.5	4.8	6.5	5.3	7.5	5.9	8.0	6.0	8.5	6.0	9.5	6.3	9.4	5.7
	23.0	5.5	4.8	6.5	5.3	7.5	5.9	8.0	6.0	8.5	6.0	9.4	6.3	9.4	5.7
	25.0	5.5	4.8	6.5	5.3	7.5	5.9	8.0	6.0	8.5	6.0	9.3	6.2	9.3	5.6
	27.0	5.5	4.8	6.5	5.3	7.5	5.9	8.0	6.0	8.5	6.0	9.2	6.2	9.2	5.7
	29.0	5.5	4.8	6.5	5.3	7.5	5.9	8.0	6.0	8.5	6.0	9.1	6.1	9.1	5.6
	31.0	5.5	4.8	6.5	5.3	7.5	5.9	8.0	6.0	8.5	6.0	9.0	6.1	8.8	5.4
	33.0	5.5	4.8	6.5	5.3	7.5	5.9	8.0	6.0	8.5	6.0	9.0	6.0	8.8	5.4
	35.0	5.5	4.8	6.5	5.3	7.5	5.9	8.0	6.0	8.4	6.0	8.6	5.8	8.6	5.4
	37.0	5.5	4.8	6.5	5.3	7.5	5.9	8.0	6.0	8.3	5.9	8.6	5.8	8.6	5.4
	39.0	5.5	4.8	6.5	5.3	7.5	5.9	8.0	6.0	8.2	5.8	8.3	5.7	8.6	5.5
42.0	5.5	4.8	6.5	5.3	7.5	5.9	8.0	6.0	8.2	5.8	8.3	5.7	8.6	5.5	
44.0	5.5	4.8	6.5	5.3	7.5	5.9	8.0	6.0	8.2	5.8	8.3	5.7	8.6	5.5	
46.0	5.5	4.8	6.5	5.3	7.5	5.9	8.0	6.0	8.2	5.8	8.3	5.7	8.6	5.5	
9.0	10.0	6.2	5.4	7.3	6.0	8.5	6.7	9.0	6.8	9.5	6.8	10.7	7.1	11.7	7.1
	12.0	6.2	5.4	7.3	6.0	8.5	6.7	9.0	6.8	9.5	6.8	10.7	7.1	11.5	7.0
	14.0	6.2	5.4	7.3	6.0	8.5	6.7	9.0	6.8	9.5	6.8	10.7	7.1	11.4	6.9
	16.0	6.2	5.4	7.3	6.0	8.5	6.7	9.0	6.8	9.5	6.8	10.7	7.1	11.3	6.8
	18.0	6.2	5.4	7.3	6.0	8.5	6.7	9.0	6.8	9.5	6.8	10.7	7.1	11.0	6.6
	20.0	6.2	5.4	7.3	6.0	8.5	6.7	9.0	6.8	9.5	6.8	10.7	7.1	10.8	6.5
	21.0	6.2	5.4	7.3	6.0	8.5	6.7	9.0	6.8	9.5	6.8	10.7	7.1	10.6	6.4
	23.0	6.2	5.4	7.3	6.0	8.5	6.7	9.0	6.8	9.5	6.8	10.5	7.1	10.5	6.4
	25.0	6.2	5.4	7.3	6.0	8.5	6.7	9.0	6.8	9.5	6.8	10.4	7.0	10.4	6.3
	27.0	6.2	5.4	7.3	6.0	8.5	6.7	9.0	6.8	9.5	6.8	10.4	6.9	10.4	6.4
	29.0	6.2	5.4	7.3	6.0	8.5	6.7	9.0	6.8	9.5	6.8	10.3	6.9	10.3	6.3
	31.0	6.2	5.4	7.3	6.0	8.5	6.7	9.0	6.8	9.5	6.8	10.2	6.8	9.9	6.1
	33.0	6.2	5.4	7.3	6.0	8.5	6.7	9.0	6.8	9.5	6.8	10.1	6.7	9.9	6.1
	35.0	6.2	5.4	7.3	6.0	8.5	6.7	9.0	6.8	9.5	6.7	9.7	6.5	9.7	6.1
	37.0	6.2	5.4	7.3	6.0	8.5	6.7	9.0	6.8	9.4	6.7	9.7	6.5	9.6	6.0
	39.0	6.2	5.4	7.3	6.0	8.5	6.7	9.0	6.8	9.2	6.5	9.4	6.4	9.6	6.1
42.0	6.2	5.4	7.3	6.0	8.5	6.7	9.0	6.8	9.2	6.5	9.4	6.4	9.6	6.1	
44.0	6.2	5.4	7.3	6.0	8.5	6.7	9.0	6.8	9.2	6.5	9.4	6.4	9.6	6.1	
46.0	6.2	5.4	7.3	6.0	8.5	6.7	9.0	6.8	9.2	6.5	9.4	6.4	9.6	6.1	
11.2	10.0	7.7	6.8	9.1	7.4	10.5	8.3	11.2	8.5	11.9	8.5	13.3	8.8	14.6	8.8
	12.0	7.7	6.8	9.1	7.4	10.5	8.3	11.2	8.5	11.9	8.5	13.3	8.8	14.3	8.7

High Static Pressure Duct Unit

	14.0	7.7	6.8	9.1	7.4	10.5	8.3	11.2	8.5	11.9	8.5	13.3	8.8	14.2	8.6
	16.0	7.7	6.8	9.1	7.4	10.5	8.3	11.2	8.5	11.9	8.5	13.3	8.8	14.0	8.5
	18.0	7.7	6.8	9.1	7.4	10.5	8.3	11.2	8.5	11.9	8.5	13.3	8.8	13.7	8.3
	20.0	7.7	6.8	9.1	7.4	10.5	8.3	11.2	8.5	11.9	8.5	13.3	8.8	13.4	8.1
	21.0	7.7	6.8	9.1	7.4	10.5	8.3	11.2	8.5	11.9	8.5	13.3	8.8	13.2	8.0
	23.0	7.7	6.8	9.1	7.4	10.5	8.3	11.2	8.5	11.9	8.5	13.1	8.8	13.1	7.9
	25.0	7.7	6.8	9.1	7.4	10.5	8.3	11.2	8.5	11.9	8.5	13.0	8.7	13.0	7.9
	27.0	7.7	6.8	9.1	7.4	10.5	8.3	11.2	8.5	11.9	8.5	12.9	8.6	12.9	7.9
	29.0	7.7	6.8	9.1	7.4	10.5	8.3	11.2	8.5	11.9	8.5	12.8	8.5	12.8	7.9
	31.0	7.7	6.8	9.1	7.4	10.5	8.3	11.2	8.5	11.9	8.5	12.7	8.5	12.3	7.6
	33.0	7.7	6.8	9.1	7.4	10.5	8.3	11.2	8.5	11.9	8.5	12.5	8.4	12.3	7.6
	35.0	7.7	6.8	9.1	7.4	10.5	8.3	11.2	8.5	11.8	8.4	12.1	8.1	12.1	7.6
	37.0	7.7	6.8	9.1	7.4	10.5	8.3	11.2	8.5	11.6	8.3	12.1	8.1	12.0	7.5
	39.0	7.7	6.8	9.1	7.4	10.5	8.3	11.2	8.5	11.4	8.1	11.6	7.9	12.0	7.6
	42.0	7.7	6.8	9.1	7.4	10.5	8.3	11.2	8.5	11.4	8.1	11.6	7.9	12.0	7.6
	44.0	7.7	6.8	9.1	7.4	10.5	8.3	11.2	8.5	11.4	8.1	11.6	7.9	12.0	7.6
46.0	7.7	6.8	9.1	7.4	10.5	8.3	11.2	8.5	11.4	8.1	11.6	7.9	12.0	7.6	
14.0	10.0	9.7	8.5	11.3	9.3	13.2	10.4	14.0	10.6	14.8	10.6	16.7	11.0	18.2	11.0
	12.0	9.7	8.5	11.3	9.3	13.2	10.4	14.0	10.6	14.8	10.6	16.7	11.0	17.9	10.8
	14.0	9.7	8.5	11.3	9.3	13.2	10.4	14.0	10.6	14.8	10.6	16.7	11.0	17.8	10.8
	16.0	9.7	8.5	11.3	9.3	13.2	10.4	14.0	10.6	14.8	10.6	16.7	11.0	17.5	10.6
	18.0	9.7	8.5	11.3	9.3	13.2	10.4	14.0	10.6	14.8	10.6	16.7	11.0	17.1	10.3
	20.0	9.7	8.5	11.3	9.3	13.2	10.4	14.0	10.6	14.8	10.6	16.7	11.0	16.8	10.2
	21.0	9.7	8.5	11.3	9.3	13.2	10.4	14.0	10.6	14.8	10.6	16.7	11.0	16.5	10.0
	23.0	9.7	8.5	11.3	9.3	13.2	10.4	14.0	10.6	14.8	10.6	16.4	11.0	16.4	9.9
	25.0	9.7	8.5	11.3	9.3	13.2	10.4	14.0	10.6	14.8	10.6	16.2	10.9	16.2	9.8
	27.0	9.7	8.5	11.3	9.3	13.2	10.4	14.0	10.6	14.8	10.6	16.1	10.8	16.1	9.9
	29.0	9.7	8.5	11.3	9.3	13.2	10.4	14.0	10.6	14.8	10.6	16.0	10.7	16.0	9.8
	31.0	9.7	8.5	11.3	9.3	13.2	10.4	14.0	10.6	14.8	10.6	15.8	10.6	15.4	9.5
	33.0	9.7	8.5	11.3	9.3	13.2	10.4	14.0	10.6	14.8	10.6	15.7	10.5	15.4	9.5
	35.0	9.7	8.5	11.3	9.3	13.2	10.4	14.0	10.6	14.7	10.5	15.1	10.1	15.1	9.5
	37.0	9.7	8.5	11.3	9.3	13.2	10.4	14.0	10.6	14.6	10.4	15.1	10.1	15.0	9.4
	39.0	9.7	8.5	11.3	9.3	13.2	10.4	14.0	10.6	14.3	10.2	14.6	9.9	15.0	9.5
42.0	9.7	8.5	11.3	9.3	13.2	10.4	14.0	10.6	14.3	10.2	14.6	9.9	15.0	9.5	
44.0	9.7	8.5	11.3	9.3	13.2	10.4	14.0	10.6	14.3	10.2	14.6	9.9	15.0	9.5	
46.0	9.7	8.5	11.3	9.3	13.2	10.4	14.0	10.6	14.3	10.2	14.6	9.9	15.0	9.5	
16.0	10.0	11.0	9.7	13.0	10.6	15.0	11.9	16.0	12.1	17.0	12.1	19.0	12.5	20.8	12.6
	12.0	11.0	9.7	13.0	10.6	15.0	11.9	16.0	12.1	17.0	12.1	19.0	12.5	20.5	12.4
	14.0	11.0	9.7	13.0	10.6	15.0	11.9	16.0	12.1	17.0	12.1	19.0	12.5	20.3	12.3
	16.0	11.0	9.7	13.0	10.6	15.0	11.9	16.0	12.1	17.0	12.1	19.0	12.5	20.0	12.1
	18.0	11.0	9.7	13.0	10.6	15.0	11.9	16.0	12.1	17.0	12.1	19.0	12.5	19.5	11.8
	20.0	11.0	9.7	13.0	10.6	15.0	11.9	16.0	12.1	17.0	12.1	19.0	12.5	19.2	11.6
	21.0	11.0	9.7	13.0	10.6	15.0	11.9	16.0	12.1	17.0	12.1	19.0	12.5	18.9	11.4
	23.0	11.0	9.7	13.0	10.6	15.0	11.9	16.0	12.1	17.0	12.1	18.7	12.5	18.7	11.3
	25.0	11.0	9.7	13.0	10.6	15.0	11.9	16.0	12.1	17.0	12.1	18.6	12.4	18.6	11.2
	27.0	11.0	9.7	13.0	10.6	15.0	11.9	16.0	12.1	17.0	12.1	18.4	12.3	18.4	11.3
	29.0	11.0	9.7	13.0	10.6	15.0	11.9	16.0	12.1	17.0	12.1	18.2	12.2	18.2	11.2
	31.0	11.0	9.7	13.0	10.6	15.0	11.9	16.0	12.1	17.0	12.1	18.1	12.1	17.6	10.8
	33.0	11.0	9.7	13.0	10.6	15.0	11.9	16.0	12.1	17.0	12.1	17.9	12.0	17.6	10.8
	35.0	11.0	9.7	13.0	10.6	15.0	11.9	16.0	12.1	16.8	12.0	17.3	11.6	17.3	10.8
	37.0	11.0	9.7	13.0	10.6	15.0	11.9	16.0	12.1	16.6	11.9	17.3	11.6	17.1	10.7
	39.0	11.0	9.7	13.0	10.6	15.0	11.9	16.0	12.1	16.3	11.6	16.6	11.3	17.1	10.9
42.0	11.0	9.7	13.0	10.6	15.0	11.9	16.0	12.1	16.3	11.6	16.6	11.3	17.1	10.9	
44.0	11.0	9.7	13.0	10.6	15.0	11.9	16.0	12.1	16.3	11.6	16.6	11.3	17.1	10.9	
46.0	11.0	9.7	13.0	10.6	15.0	11.9	16.0	12.1	16.3	11.6	16.6	11.3	17.1	10.9	
20.0	10.0	13.8	12.1	16.2	13.3	18.8	14.8	20.0	15.1	21.2	15.1	23.8	15.7	26.0	15.7
	12.0	13.8	12.1	16.2	13.3	18.8	14.8	20.0	15.1	21.2	15.1	23.8	15.7	25.6	15.5
	14.0	13.8	12.1	16.2	13.3	18.8	14.8	20.0	15.1	21.2	15.1	23.8	15.7	25.4	15.4
	16.0	13.8	12.1	16.2	13.3	18.8	14.8	20.0	15.1	21.2	15.1	23.8	15.7	25.0	15.1
	18.0	13.8	12.1	16.2	13.3	18.8	14.8	20.0	15.1	21.2	15.1	23.8	15.7	24.4	14.8
	20.0	13.8	12.1	16.2	13.3	18.8	14.8	20.0	15.1	21.2	15.1	23.8	15.7	24.0	14.5
	21.0	13.8	12.1	16.2	13.3	18.8	14.8	20.0	15.1	21.2	15.1	23.8	15.7	23.6	14.3
	23.0	13.8	12.1	16.2	13.3	18.8	14.8	20.0	15.1	21.2	15.1	23.4	15.7	23.4	14.2
	25.0	13.8	12.1	16.2	13.3	18.8	14.8	20.0	15.1	21.2	15.1	23.2	15.5	23.2	14.0
	27.0	13.8	12.1	16.2	13.3	18.8	14.8	20.0	15.1	21.2	15.1	23.0	15.4	23.0	14.2
29.0	13.8	12.1	16.2	13.3	18.8	14.8	20.0	15.1	21.2	15.1	22.8	15.3	22.8	14.0	

	31.0	13.8	12.1	16.2	13.3	18.8	14.8	20.0	15.1	21.2	15.1	22.6	15.1	22.0	13.5
	33.0	13.8	12.1	16.2	13.3	18.8	14.8	20.0	15.1	21.2	15.1	22.4	15.0	22.0	13.5
	35.0	13.8	12.1	16.2	13.3	18.8	14.8	20.0	15.1	21.0	15.0	21.6	14.5	21.6	13.5
	37.0	13.8	12.1	16.2	13.3	18.8	14.8	20.0	15.1	20.8	14.8	21.6	14.5	21.4	13.4
	39.0	13.8	12.1	16.2	13.3	18.8	14.8	20.0	15.1	20.4	14.5	20.8	14.2	21.4	13.6
	42.0	13.8	12.1	16.2	13.3	18.8	14.8	20.0	15.1	20.4	14.5	20.8	14.2	21.4	13.6
	44.0	13.8	12.1	16.2	13.3	18.8	14.8	20.0	15.1	20.4	14.5	20.8	14.2	21.4	13.6
	46.0	13.8	12.1	16.2	13.3	18.8	14.8	20.0	15.1	20.4	14.5	20.8	14.2	21.4	13.6
25.0	10.0	17.3	15.1	20.3	16.6	23.5	18.5	25.0	18.9	26.5	18.9	29.8	19.6	32.5	19.7
	12.0	17.3	15.1	20.3	16.6	23.5	18.5	25.0	18.9	26.5	18.9	29.8	19.6	32.0	19.4
	14.0	17.3	15.1	20.3	16.6	23.5	18.5	25.0	18.9	26.5	18.9	29.8	19.6	31.8	19.2
	16.0	17.3	15.1	20.3	16.6	23.5	18.5	25.0	18.9	26.5	18.9	29.8	19.6	31.3	18.9
	18.0	17.3	15.1	20.3	16.6	23.5	18.5	25.0	18.9	26.5	18.9	29.8	19.6	30.5	18.4
	20.0	17.3	15.1	20.3	16.6	23.5	18.5	25.0	18.9	26.5	18.9	29.8	19.6	30.0	18.1
	21.0	17.3	15.1	20.3	16.6	23.5	18.5	25.0	18.9	26.5	18.9	29.8	19.6	29.5	17.8
	23.0	17.3	15.1	20.3	16.6	23.5	18.5	25.0	18.9	26.5	18.9	29.3	19.6	29.3	17.7
	25.0	17.3	15.1	20.3	16.6	23.5	18.5	25.0	18.9	26.5	18.9	29.0	19.4	29.0	17.5
	27.0	17.3	15.1	20.3	16.6	23.5	18.5	25.0	18.9	26.5	18.9	28.8	19.3	28.8	17.7
	29.0	17.3	15.1	20.3	16.6	23.5	18.5	25.0	18.9	26.5	18.9	28.5	19.1	28.5	17.5
	31.0	17.3	15.1	20.3	16.6	23.5	18.5	25.0	18.9	26.5	18.9	28.3	18.9	27.5	16.9
	33.0	17.3	15.1	20.3	16.6	23.5	18.5	25.0	18.9	26.5	18.9	28.0	18.7	27.5	16.9
	35.0	17.3	15.1	20.3	16.6	23.5	18.5	25.0	18.9	26.3	18.7	27.0	18.1	27.0	16.9
	37.0	17.3	15.1	20.3	16.6	23.5	18.5	25.0	18.9	26.0	18.5	27.0	18.1	26.8	16.8
	39.0	17.3	15.1	20.3	16.6	23.5	18.5	25.0	18.9	25.5	18.2	26.0	17.7	26.8	17.0
	42.0	17.3	15.1	20.3	16.6	23.5	18.5	25.0	18.9	25.5	18.2	26.0	17.7	26.8	17.0
	44.0	17.3	15.1	20.3	16.6	23.5	18.5	25.0	18.9	25.5	18.2	26.0	17.7	26.8	17.0
46.0	17.3	15.1	20.3	16.6	23.5	18.5	25.0	18.9	25.5	18.2	26.0	17.7	26.8	17.0	
28.0	10.0	19.3	16.9	22.7	18.6	26.3	20.8	28.0	21.2	29.7	21.2	33.3	22.0	36.4	22.0
	12.0	19.3	16.9	22.7	18.6	26.3	20.8	28.0	21.2	29.7	21.2	33.3	22.0	35.8	21.7
	14.0	19.3	16.9	22.7	18.6	26.3	20.8	28.0	21.2	29.7	21.2	33.3	22.0	35.6	21.5
	16.0	19.3	16.9	22.7	18.6	26.3	20.8	28.0	21.2	29.7	21.2	33.3	22.0	35.0	21.2
	18.0	19.3	16.9	22.7	18.6	26.3	20.8	28.0	21.2	29.7	21.2	33.3	22.0	34.2	20.7
	20.0	19.3	16.9	22.7	18.6	26.3	20.8	28.0	21.2	29.7	21.2	33.3	22.0	33.6	20.3
	21.0	19.3	16.9	22.7	18.6	26.3	20.8	28.0	21.2	29.7	21.2	33.3	22.0	33.0	20.0
	23.0	19.3	16.9	22.7	18.6	26.3	20.8	28.0	21.2	29.7	21.2	32.8	21.9	32.8	19.8
	25.0	19.3	16.9	22.7	18.6	26.3	20.8	28.0	21.2	29.7	21.2	32.5	21.7	32.5	19.6
	27.0	19.3	16.9	22.7	18.6	26.3	20.8	28.0	21.2	29.7	21.2	32.2	21.6	32.2	19.8
	29.0	19.3	16.9	22.7	18.6	26.3	20.8	28.0	21.2	29.7	21.2	31.9	21.4	31.9	19.6
	31.0	19.3	16.9	22.7	18.6	26.3	20.8	28.0	21.2	29.7	21.2	31.6	21.2	30.8	19.0
	33.0	19.3	16.9	22.7	18.6	26.3	20.8	28.0	21.2	29.7	21.2	31.4	21.0	30.8	19.0
	35.0	19.3	16.9	22.7	18.6	26.3	20.8	28.0	21.2	29.4	21.0	30.2	20.2	30.2	18.9
	37.0	19.3	16.9	22.7	18.6	26.3	20.8	28.0	21.2	29.1	20.8	30.2	20.2	30.0	18.8
	39.0	19.3	16.9	22.7	18.6	26.3	20.8	28.0	21.2	28.6	20.4	29.1	19.8	30.0	19.1
	42.0	19.3	16.9	22.7	18.6	26.3	20.8	28.0	21.2	28.6	20.4	29.1	19.8	30.0	19.1
	44.0	19.3	16.9	22.7	18.6	26.3	20.8	28.0	21.2	28.6	20.4	29.1	19.8	30.0	19.1
46.0	19.3	16.9	22.7	18.6	26.3	20.8	28.0	21.2	28.6	20.4	29.1	19.8	30.0	19.1	
40.0	10.0	27.6	24.1	32.4	26.6	37.6	29.6	40.0	30.2	42.4	30.2	47.6	31.4	52.0	31.4
	12.0	27.6	24.1	32.4	26.6	37.6	29.6	40.0	30.2	42.4	30.2	47.6	31.4	51.2	31.0
	14.0	27.6	24.1	32.4	26.6	37.6	29.6	40.0	30.2	42.4	30.2	47.6	31.4	50.8	30.7
	16.0	27.6	24.1	32.4	26.6	37.6	29.6	40.0	30.2	42.4	30.2	47.6	31.4	50.0	30.2
	18.0	27.6	24.1	32.4	26.6	37.6	29.6	40.0	30.2	42.4	30.2	47.6	31.4	48.8	29.5
	20.0	27.6	24.1	32.4	26.6	37.6	29.6	40.0	30.2	42.4	30.2	47.6	31.4	48.0	29.0
	21.0	27.6	24.1	32.4	26.6	37.6	29.6	40.0	30.2	42.4	30.2	47.6	31.4	47.2	28.5
	23.0	27.6	24.1	32.4	26.6	37.6	29.6	40.0	30.2	42.4	30.2	46.8	31.3	46.8	28.3
	25.0	27.6	24.1	32.4	26.6	37.6	29.6	40.0	30.2	42.4	30.2	46.4	31.1	46.4	28.1
	27.0	27.6	24.1	32.4	26.6	37.6	29.6	40.0	30.2	42.4	30.2	46.0	30.8	46.0	28.3
	29.0	27.6	24.1	32.4	26.6	37.6	29.6	40.0	30.2	42.4	30.2	45.6	30.5	45.6	28.1
	31.0	27.6	24.1	32.4	26.6	37.6	29.6	40.0	30.2	42.4	30.2	45.2	30.3	44.0	27.1
	33.0	27.6	24.1	32.4	26.6	37.6	29.6	40.0	30.2	42.4	30.2	44.8	30.0	44.0	27.1
	35.0	27.6	24.1	32.4	26.6	37.6	29.6	40.0	30.2	42.0	29.9	43.2	28.9	43.2	27.1
	37.0	27.6	24.1	32.4	26.6	37.6	29.6	40.0	30.2	41.6	29.7	43.2	28.9	42.8	26.8
	39.0	27.6	24.1	32.4	26.6	37.6	29.6	40.0	30.2	40.8	29.1	41.6	28.3	42.8	27.3
	41.0	27.6	24.1	32.4	26.6	37.6	29.6	40.0	30.2	40.8	29.1	41.6	28.3	42.8	27.3
	43.0	27.6	24.1	32.4	26.6	37.6	29.6	40.0	30.2	42.4	30.2	47.6	31.4	52.0	31.4
45.0	10.0	31.1	27.2	36.5	29.9	42.3	33.3	45.0	34.0	47.7	34.0	53.6	35.3	58.5	35.4

High Static Pressure Duct Unit

	12.0	31.1	27.2	36.5	29.9	42.3	33.3	45.0	34.0	47.7	34.0	53.6	35.3	57.6	34.8
	14.0	31.1	27.2	36.5	29.9	42.3	33.3	45.0	34.0	47.7	34.0	53.6	35.3	57.2	34.6
	16.0	31.1	27.2	36.5	29.9	42.3	33.3	45.0	34.0	47.7	34.0	53.6	35.3	56.3	34.0
	18.0	31.1	27.2	36.5	29.9	42.3	33.3	45.0	34.0	47.7	34.0	53.6	35.3	54.9	33.2
	20.0	31.1	27.2	36.5	29.9	42.3	33.3	45.0	34.0	47.7	34.0	53.6	35.3	54.0	32.7
	21.0	31.1	27.2	36.5	29.9	42.3	33.3	45.0	34.0	47.7	34.0	53.6	35.3	53.1	32.1
	23.0	31.1	27.2	36.5	29.9	42.3	33.3	45.0	34.0	47.7	34.0	52.7	35.3	52.7	31.8
	25.0	31.1	27.2	36.5	29.9	42.3	33.3	45.0	34.0	47.7	34.0	52.2	35.0	52.2	31.6
	27.0	31.1	27.2	36.5	29.9	42.3	33.3	45.0	34.0	47.7	34.0	51.8	34.7	51.8	31.9
	29.0	31.1	27.2	36.5	29.9	42.3	33.3	45.0	34.0	47.7	34.0	51.3	34.4	51.3	31.6
	31.0	31.1	27.2	36.5	29.9	42.3	33.3	45.0	34.0	47.7	34.0	50.9	34.0	49.5	30.5
	33.0	31.1	27.2	36.5	29.9	42.3	33.3	45.0	34.0	47.7	34.0	50.4	33.7	49.5	30.5
	35.0	31.1	27.2	36.5	29.9	42.3	33.3	45.0	34.0	47.3	33.7	48.6	32.5	48.6	30.4
	37.0	31.1	27.2	36.5	29.9	42.3	33.3	45.0	34.0	46.8	33.4	48.6	32.5	48.2	30.2
	39.0	31.1	27.2	36.5	29.9	42.3	33.3	45.0	34.0	45.9	32.7	46.8	31.8	48.2	30.7
	42.0	31.1	27.2	36.5	29.9	42.3	33.3	45.0	34.0	45.9	32.7	46.8	31.8	48.2	30.7
44.0	31.1	27.2	36.5	29.9	42.3	33.3	45.0	34.0	45.9	32.7	46.8	31.8	48.2	30.7	
46.0	31.1	27.2	36.5	29.9	42.3	33.3	45.0	34.0	45.9	32.7	46.8	31.8	48.2	30.7	
56.0	10.0	38.6	33.8	45.4	37.2	52.6	41.5	56.0	42.3	59.4	42.3	66.6	43.9	72.8	44.0
	12.0	38.6	33.8	45.4	37.2	52.6	41.5	56.0	42.3	59.4	42.3	66.6	43.9	71.7	43.4
	14.0	38.6	33.8	45.4	37.2	52.6	41.5	56.0	42.3	59.4	42.3	66.6	43.9	71.1	43.0
	16.0	38.6	33.8	45.4	37.2	52.6	41.5	56.0	42.3	59.4	42.3	66.6	43.9	70.0	42.3
	18.0	38.6	33.8	45.4	37.2	52.6	41.5	56.0	42.3	59.4	42.3	66.6	43.9	68.3	41.3
	20.0	38.6	33.8	45.4	37.2	52.6	41.5	56.0	42.3	59.4	42.3	66.6	43.9	67.2	40.6
	21.0	38.6	33.8	45.4	37.2	52.6	41.5	56.0	42.3	59.4	42.3	66.6	43.9	66.1	40.0
	23.0	38.6	33.8	45.4	37.2	52.6	41.5	56.0	42.3	59.4	42.3	65.5	43.9	65.5	39.6
	25.0	38.6	33.8	45.4	37.2	52.6	41.5	56.0	42.3	59.4	42.3	65.0	43.5	65.0	39.3
	27.0	38.6	33.8	45.4	37.2	52.6	41.5	56.0	42.3	59.4	42.3	64.4	43.1	64.4	39.6
	29.0	38.6	33.8	45.4	37.2	52.6	41.5	56.0	42.3	59.4	42.3	63.8	42.7	63.8	39.3
	31.0	38.6	33.8	45.4	37.2	52.6	41.5	56.0	42.3	59.4	42.3	63.3	42.4	61.6	37.9
	33.0	38.6	33.8	45.4	37.2	52.6	41.5	56.0	42.3	59.4	42.3	62.7	42.0	61.6	37.9
	35.0	38.6	33.8	45.4	37.2	52.6	41.5	56.0	42.3	58.8	41.9	60.5	40.5	60.5	37.9
	37.0	38.6	33.8	45.4	37.2	52.6	41.5	56.0	42.3	58.2	41.5	60.5	40.5	59.9	37.5
	39.0	38.6	33.8	45.4	37.2	52.6	41.5	56.0	42.3	57.1	40.7	58.2	39.6	59.9	38.2
42.0	38.6	33.8	45.4	37.2	52.6	41.5	56.0	42.3	57.1	40.7	58.2	39.6	59.9	38.2	
44.0	38.6	33.8	45.4	37.2	52.6	41.5	56.0	42.3	57.1	40.7	58.2	39.6	59.9	38.2	
46.0	38.6	33.8	45.4	37.2	52.6	41.5	56.0	42.3	57.1	40.7	58.2	39.6	59.9	38.2	

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
7.1	-20	-19.8	3.98	3.98	3.98	3.98	3.98	3.98
	-19	-18.8	4.26	4.26	4.26	4.26	4.26	4.26
	-17	-16.7	4.47	4.47	4.47	4.47	4.47	4.47
	-15	-14.7	4.62	4.62	4.62	4.62	4.62	4.62
	-13.00	-12.60	4.90	4.90	4.90	4.90	4.90	4.90
	-11.00	-10.50	4.97	5.04	5.04	5.04	5.04	5.04
	-10.00	-9.50	5.18	5.18	5.18	5.18	5.18	5.18
	-9.10	-8.50	5.33	5.33	5.33	5.33	5.33	5.33
	-7.60	-7.00	5.40	5.40	5.40	5.40	5.40	5.40
	-5.60	-5.00	5.61	5.61	5.61	5.61	5.61	5.61
	-3.70	-3.00	5.89	5.89	5.89	5.89	5.89	5.89
	-0.70	0.00	6.32	6.32	6.32	6.32	6.32	5.96
	2.20	3.00	6.67	6.67	6.67	6.67	6.53	5.96
	4.10	5.00	6.89	6.89	6.89	6.89	6.53	5.96
	6.00	7.00	7.10	7.10	7.10	6.89	6.53	5.96
	7.90	9.00	7.31	7.31	7.10	6.89	6.53	5.96
9.80	11.00	7.53	7.53	7.10	6.89	6.53	5.96	
11.80	13.00	7.81	7.67	7.10	6.89	6.53	5.96	
13.70	15.00	8.02	7.67	7.10	6.89	6.53	5.96	
8.0	-20	-19.8	4.48	4.48	4.48	4.48	4.48	4.48
	-19	-18.8	4.80	4.80	4.80	4.80	4.80	4.80
	-17	-16.7	5.04	5.04	5.04	5.04	5.04	5.04
	-15	-14.7	5.20	5.20	5.20	5.20	5.20	5.20
	-13.00	-12.60	5.52	5.52	5.52	5.52	5.52	5.52
	-11.00	-10.50	5.60	5.68	5.68	5.68	5.68	5.68
	-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	8.80	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	
9.0	-20	5.04	5.04	5.04	5.04	5.04	5.04	5.04
	-19	5.40	5.40	5.40	5.40	5.40	5.40	5.40
	-17	5.67	5.67	5.67	5.67	5.67	5.67	5.67
	-15	5.85	5.85	5.85	5.85	5.85	5.85	5.85
	-13.00	6.21	6.21	6.21	6.21	6.21	6.21	6.21
	-11.00	6.30	6.30	6.39	6.39	6.39	6.39	6.39
	-10.00	6.57	6.57	6.57	6.57	6.57	6.57	6.57
	-9.10	6.75	6.75	6.75	6.75	6.75	6.75	6.75
	-7.60	6.84	6.84	6.84	6.84	6.84	6.84	6.84
	-5.60	7.11	7.11	7.11	7.11	7.11	7.11	7.11
	-3.70	7.47	7.47	7.47	7.47	7.47	7.47	7.47
	-0.70	8.01	8.01	8.01	8.01	8.01	8.01	7.56
	2.20	8.46	8.46	8.46	8.46	8.46	8.28	7.56
	4.10	8.73	8.73	8.73	8.73	8.73	8.28	7.56
	6.00	9.00	9.00	9.00	9.00	8.73	8.28	7.56
	7.90	9.27	9.27	9.27	9.00	8.73	8.28	7.56
9.80	9.54	9.54	9.54	9.00	8.73	8.28	7.56	
11.80	9.90	9.90	9.72	9.00	8.73	8.28	7.56	
13.70	10.17	10.17	9.72	9.00	8.73	8.28	7.56	
11.2	-20	-19.8	6.27	6.27	6.27	6.27	6.27	6.27

High Static Pressure Duct Unit

	-19	-18.8	6.72	6.72	6.72	6.72	6.72	6.72
	-17	-16.7	7.06	7.06	7.06	7.06	7.06	7.06
	-15	-14.7	7.28	7.28	7.28	7.28	7.28	7.28
	-13.00	-12.60	7.73	7.73	7.73	7.73	7.73	7.73
	-11.00	-10.50	7.84	7.95	7.95	7.95	7.95	7.95
	-10.00	-9.50	8.18	8.18	8.18	8.18	8.18	8.18
	-9.10	-8.50	8.40	8.40	8.40	8.40	8.40	8.40
	-7.60	-7.00	8.51	8.51	8.51	8.51	8.51	8.51
	-5.60	-5.00	8.85	8.85	8.85	8.85	8.85	8.85
	-3.70	-3.00	9.30	9.30	9.30	9.30	9.30	9.30
	-0.70	0.00	9.97	9.97	9.97	9.97	9.97	9.41
	2.20	3.00	10.53	10.53	10.53	10.53	10.30	9.41
	4.10	5.00	10.86	10.86	10.86	10.86	10.30	9.41
	6.00	7.00	11.20	11.20	11.20	10.86	10.30	9.41
	7.90	9.00	11.54	11.54	11.20	10.86	10.30	9.41
9.80	11.00	11.87	11.87	11.20	10.86	10.30	9.41	
11.80	13.00	12.32	12.10	11.20	10.86	10.30	9.41	
13.70	15.00	12.66	12.10	11.20	10.86	10.30	9.41	
14.0	-20	7.84	7.84	7.84	7.84	7.84	7.84	7.84
	-19	8.40	8.40	8.40	8.40	8.40	8.40	8.40
	-17	8.82	8.82	8.82	8.82	8.82	8.82	8.82
	-15	9.10	9.10	9.10	9.10	9.10	9.10	9.10
	-13.00	9.66	9.66	9.66	9.66	9.66	9.66	9.66
	-11.00	9.80	9.80	9.94	9.94	9.94	9.94	9.94
	-10.00	10.22	10.22	10.22	10.22	10.22	10.22	10.22
	-9.10	10.50	10.50	10.50	10.50	10.50	10.50	10.50
	-7.60	10.64	10.64	10.64	10.64	10.64	10.64	10.64
	-5.60	11.06	11.06	11.06	11.06	11.06	11.06	11.06
	-3.70	11.62	11.62	11.62	11.62	11.62	11.62	11.62
	-0.70	12.46	12.46	12.46	12.46	12.46	12.46	11.76
	2.20	13.16	13.16	13.16	13.16	13.16	12.88	11.76
	4.10	13.58	13.58	13.58	13.58	13.58	12.88	11.76
	6.00	14.00	14.00	14.00	14.00	13.58	12.88	11.76
7.90	14.42	14.42	14.42	14.00	13.58	12.88	11.76	
9.80	14.84	14.84	14.84	14.00	13.58	12.88	11.76	
11.80	15.40	15.40	15.12	14.00	13.58	12.88	11.76	
13.70	15.82	15.82	15.12	14.00	13.58	12.88	11.76	
16.0	-20	-19.8	8.96	8.96	8.96	8.96	8.96	8.96
	-19	-18.8	9.60	9.60	9.60	9.60	9.60	9.60
	-17	-16.7	10.08	10.08	10.08	10.08	10.08	10.08
	-15	-14.7	10.40	10.40	10.40	10.40	10.40	10.40
	-13.00	-12.6	11.04	11.04	11.04	11.04	11.04	11.04
	-11.00	-10.5	11.20	11.36	11.36	11.36	11.36	11.36
	-10.00	-9.5	11.68	11.68	11.68	11.68	11.68	11.68
	-9.10	-8.5	12.00	12.00	12.00	12.00	12.00	12.00
	-7.60	-7	12.16	12.16	12.16	12.16	12.16	12.16
	-5.60	-5	12.64	12.64	12.64	12.64	12.64	12.64
	-3.70	-3	13.28	13.28	13.28	13.28	13.28	13.28
	-0.70	0	14.24	14.24	14.24	14.24	14.24	13.44
	2.20	3	15.04	15.04	15.04	15.04	14.72	13.44
	4.10	5	15.52	15.52	15.52	15.52	14.72	13.44
	6.00	7	16.00	16.00	16.00	15.52	14.72	13.44
7.90	9	16.48	16.48	16.00	15.52	14.72	13.44	
9.80	11	16.96	16.96	16.00	15.52	14.72	13.44	
11.80	13	17.60	17.28	16.00	15.52	14.72	13.44	
13.70	15	18.08	17.28	16.00	15.52	14.72	13.44	
20.0	-20	-19.8	11.20	11.20	11.20	11.20	11.20	11.20
	-19	-18.8	12.00	12.00	12.00	12.00	12.00	12.00
	-17	-16.7	12.60	12.60	12.60	12.60	12.60	12.60
	-15	-14.7	13.00	13.00	13.00	13.00	13.00	13.00
	-13.00	-12.6	13.80	13.80	13.80	13.80	13.80	13.80
	-11.00	-10.5	14.00	14.20	14.20	14.20	14.20	14.20
	-10.00	-9.5	14.60	14.60	14.60	14.60	14.60	14.60
	-9.10	-8.5	15.00	15.00	15.00	15.00	15.00	15.00
	-7.60	-7	15.20	15.20	15.20	15.20	15.20	15.20

	-5.60	-5	15.80	15.80	15.80	15.80	15.80	15.80
	-3.70	-3	16.60	16.60	16.60	16.60	16.60	16.60
	-0.70	0	17.80	17.80	17.80	17.80	17.80	16.80
	2.20	3	18.80	18.80	18.80	18.80	18.40	16.80
	4.10	5	19.40	19.40	19.40	19.40	18.40	16.80
	6.00	7	20.00	20.00	20.00	19.40	18.40	16.80
	7.90	9	20.60	20.60	20.00	19.40	18.40	16.80
	9.80	11	21.20	21.20	20.00	19.40	18.40	16.80
	11.80	13	22.00	21.60	20.00	19.40	18.40	16.80
13.70	15	22.60	21.60	20.00	19.40	18.40	16.80	
25.0	-20	-19.8	14.00	14.00	14.00	14.00	14.00	14.00
	-19	-18.8	15.00	15.00	15.00	15.00	15.00	15.00
	-17	-16.7	15.75	15.75	15.75	15.75	15.75	15.75
	-15	-14.7	16.25	16.25	16.25	16.25	16.25	16.25
	-13.00	-12.6	17.25	17.25	17.25	17.25	17.25	17.25
	-11.00	-10.5	17.50	17.75	17.75	17.75	17.75	17.75
	-10.00	-9.5	18.25	18.25	18.25	18.25	18.25	18.25
	-9.10	-8.5	18.75	18.75	18.75	18.75	18.75	18.75
	-7.60	-7	19.00	19.00	19.00	19.00	19.00	19.00
	-5.60	-5	19.75	19.75	19.75	19.75	19.75	19.75
	-3.70	-3	20.75	20.75	20.75	20.75	20.75	20.75
	-0.70	0	22.25	22.25	22.25	22.25	22.25	21.00
	2.20	3	23.50	23.50	23.50	23.50	23.00	21.00
	4.10	5	24.25	24.25	24.25	24.25	23.00	21.00
	6.00	7	25.00	25.00	25.00	24.25	23.00	21.00
7.90	9	25.75	25.75	25.00	24.25	23.00	21.00	
9.80	11	26.50	26.50	25.00	24.25	23.00	21.00	
11.80	13	27.50	27.00	25.00	24.25	23.00	21.00	
13.70	15	28.25	27.00	25.00	24.25	23.00	21.00	
28.0	-20	-19.8	15.68	15.68	15.68	15.68	15.68	15.68
	-19	-18.8	16.80	16.80	16.80	16.80	16.80	16.80
	-17	-16.7	17.64	17.64	17.64	17.64	17.64	17.64
	-15	-14.7	18.20	18.20	18.20	18.20	18.20	18.20
	-13.00	-12.6	19.32	19.32	19.32	19.32	19.32	19.32
	-11.00	-10.5	19.60	19.88	19.88	19.88	19.88	19.88
	-10.00	-9.5	20.44	20.44	20.44	20.44	20.44	20.44
	-9.10	-8.5	21.00	21.00	21.00	21.00	21.00	21.00
	-7.60	-7	21.28	21.28	21.28	21.28	21.28	21.28
	-5.60	-5	22.12	22.12	22.12	22.12	22.12	22.12
	-3.70	-3	23.24	23.24	23.24	23.24	23.24	23.24
	-0.70	0	24.92	24.92	24.92	24.92	24.92	23.52
	2.20	3	26.32	26.32	26.32	26.32	25.76	23.52
	4.10	5	27.16	27.16	27.16	27.16	25.76	23.52
	6.00	7	28.00	28.00	28.00	27.16	25.76	23.52
7.90	9	28.84	28.84	28.00	27.16	25.76	23.52	
9.80	11	29.68	29.68	28.00	27.16	25.76	23.52	
11.80	13	30.80	30.24	28.00	27.16	25.76	23.52	
13.70	15	31.64	30.24	28.00	27.16	25.76	23.52	
40.0	-20	-19.8	22.40	22.40	22.40	22.40	22.40	22.40
	-19	-18.8	24.00	24.00	24.00	24.00	24.00	24.00
	-17	-16.7	25.20	25.20	25.20	25.20	25.20	25.20
	-15	-14.7	26.00	26.00	26.00	26.00	26.00	26.00
	-13.00	-12.6	27.60	27.60	27.60	27.60	27.60	27.60
	-11.00	-10.5	28.00	28.40	28.40	28.40	28.40	28.40
	-10.00	-9.5	29.20	29.20	29.20	29.20	29.20	29.20
	-9.10	-8.5	30.00	30.00	30.00	30.00	30.00	30.00
	-7.60	-7	30.40	30.40	30.40	30.40	30.40	30.40
	-5.60	-5	31.60	31.60	31.60	31.60	31.60	31.60
	-3.70	-3	33.20	33.20	33.20	33.20	33.20	33.20
	-0.70	0	35.60	35.60	35.60	35.60	35.60	33.60
	2.20	3	37.60	37.60	37.60	37.60	36.80	33.60
	4.10	5	38.80	38.80	38.80	38.80	36.80	33.60
	6.00	7	40.00	40.00	40.00	38.80	36.80	33.60
7.90	9	41.20	41.20	40.00	38.80	36.80	33.60	
9.80	11	42.40	42.40	40.00	38.80	36.80	33.60	

High Static Pressure Duct Unit

	11.80	13	44.00	43.20	40.00	38.80	36.80	33.60
	13.70	15	45.20	43.20	40.00	38.80	36.80	33.60
45.0	-20	-19.8	25.20	25.20	25.20	25.20	25.20	25.20
	-19	-18.8	27.00	27.00	27.00	27.00	27.00	27.00
	-17	-16.7	28.35	28.35	28.35	28.35	28.35	28.35
	-15	-14.7	29.25	29.25	29.25	29.25	29.25	29.25
	-13.00	-12.6	31.05	31.05	31.05	31.05	31.05	31.05
	-11.00	-10.5	31.50	31.95	31.95	31.95	31.95	31.95
	-10.00	-9.5	32.85	32.85	32.85	32.85	32.85	32.85
	-9.10	-8.5	33.75	33.75	33.75	33.75	33.75	33.75
	-7.60	-7	34.20	34.20	34.20	34.20	34.20	34.20
	-5.60	-5	35.55	35.55	35.55	35.55	35.55	35.55
	-3.70	-3	37.35	37.35	37.35	37.35	37.35	37.35
	-0.70	0	40.05	40.05	40.05	40.05	40.05	37.80
	2.20	3	42.30	42.30	42.30	42.30	41.40	37.80
	4.10	5	43.65	43.65	43.65	43.65	41.40	37.80
	6.00	7	45.00	45.00	45.00	43.65	41.40	37.80
	7.90	9	46.35	46.35	45.00	43.65	41.40	37.80
	9.80	11	47.70	47.70	45.00	43.65	41.40	37.80
11.80	13	49.50	48.60	45.00	43.65	41.40	37.80	
13.70	15	50.85	48.60	45.00	43.65	41.40	37.80	
56.0	-20	-19.8	31.36	31.36	31.36	31.36	31.36	31.36
	-19	-18.8	33.60	33.60	33.60	33.60	33.60	33.60
	-17	-16.7	35.28	35.28	35.28	35.28	35.28	35.28
	-15	-14.7	36.40	36.40	36.40	36.40	36.40	36.40
	-13.00	-12.6	38.64	38.64	38.64	38.64	38.64	38.64
	-11.00	-10.5	39.20	39.76	39.76	39.76	39.76	39.76
	-10.00	-9.5	40.88	40.88	40.88	40.88	40.88	40.88
	-9.10	-8.5	42.00	42.00	42.00	42.00	42.00	42.00
	-7.60	-7	42.56	42.56	42.56	42.56	42.56	42.56
	-5.60	-5	44.24	44.24	44.24	44.24	44.24	44.24
	-3.70	-3	46.48	46.48	46.48	46.48	46.48	46.48
	-0.70	0	49.84	49.84	49.84	49.84	49.84	47.04
	2.20	3	52.64	52.64	52.64	52.64	51.52	47.04
	4.10	5	54.32	54.32	54.32	54.32	51.52	47.04
	6.00	7	56.00	56.00	56.00	54.32	51.52	47.04
	7.90	9	57.68	57.68	56.00	54.32	51.52	47.04
	9.80	11	59.36	59.36	56.00	54.32	51.52	47.04
11.80	13	61.60	60.48	56.00	54.32	51.52	47.04	
13.70	15	63.28	60.48	56.00	54.32	51.52	47.04	

9. Electrical Characteristics

Model	Indoor Unit				Power Supply		IFM	
	Hz	Voltage	Min.	Max.	MCA	MFA	KW	FLA
TMVDHN71/I4RN1S	50	220-240	198	254	1.23	5	0.1	1.17
TMVDHN80/I4RN1S	50	220-240	198	254	1.23	5	0.1	1.17
TMVDHN90/I4RN1S	50	220-240	198	254	1.87	5	0.16	1.71
TMVDHN112/I4RN1S	50	220-240	198	254	2.3	5	0.2	2.18
TMVDHN140/I4RN1S	50	220-240	198	254	2.85	5	0.3	2.56
TMVDHN160/I4RN1S	50	220-240	198	254	4.77	6	0.4	3.52
TMVDHN200/I4RN1S	50	220-240	198	254	8.6	10	0.55(*2)	3.1(*2)
TMVDHN250/I4RN1S	50	220-240	198	254	8.6	10	0.55(*2)	3.1(*2)
TMVDHN280/I4RN1S	50	220-240	198	254	8.6	10	0.55(*2)	3.25(*2)
TMVDHN400/I4RN1S	50	220-240	198	254	18.75	25	0.55(*3)	5(*3)
TMVDHN450/I4RN1S	50	220-240	198	254	18.75	25	0.55(*3)	5(*3)
TMVDHN560/I4RN1S	50	220-240	198	254	23.1	30	0.6(*3)	6.2(*3)

Remark:

MCA: Min. Current Amps. (A)

MFA: Max. Fuse Amps. (A)

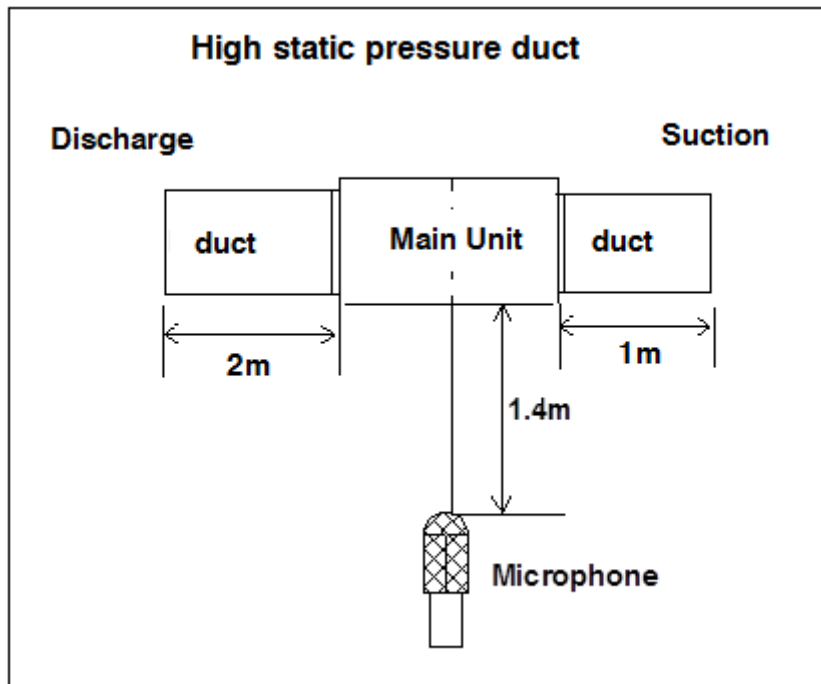
KW: Fan Motor Rated Output (kW)

FLA: Full Load Amps. (A)

IFM:Indoor Fan Motor

10. Sound Levels

10.1 Test condition



10.2 Test value

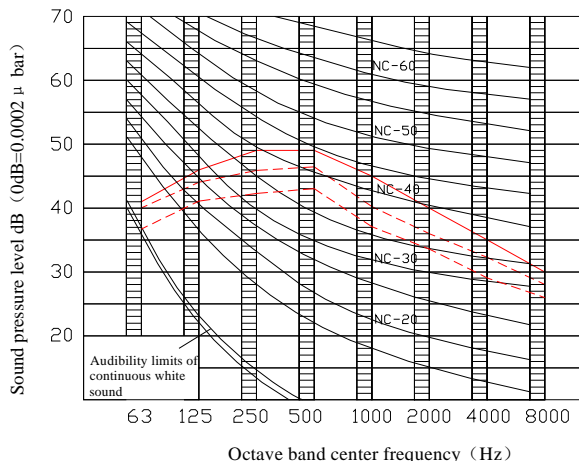
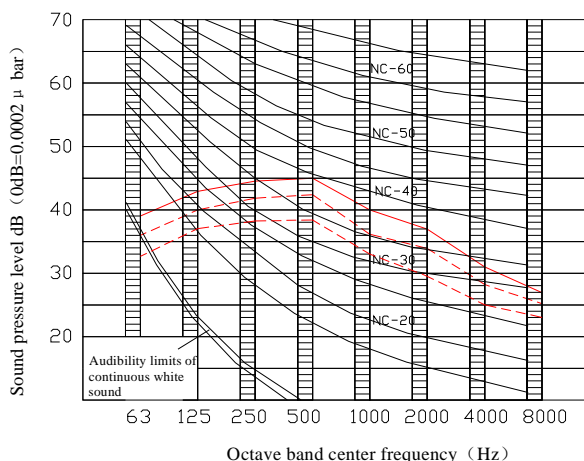
Model	Sound test value dB(A)		
	H	M	L
TMVDHN71/I4RN1S	48	46	44.5
TMVDHN80/I4RN1S	48	46	44.5
TMVDHN90/I4RN1S	52	49	47
TMVDHN112/I4RN1S	52	49	47
TMVDHN140/I4RN1S	53	50	48
TMVDHN160/I4RN1S	54	52	50
TMVDHN200/I4RN1S	58	55	52
TMVDHN250/I4RN1S	58	55	52
TMVDHN280/I4RN1S	58	55	52
TMVDHN400/I4RN1S	61	59	56
TMVDHN450/I4RN1S	61	59	56
TMVDHN560/I4RN1S	63	60	57

TMVDHN71/I4RN1S

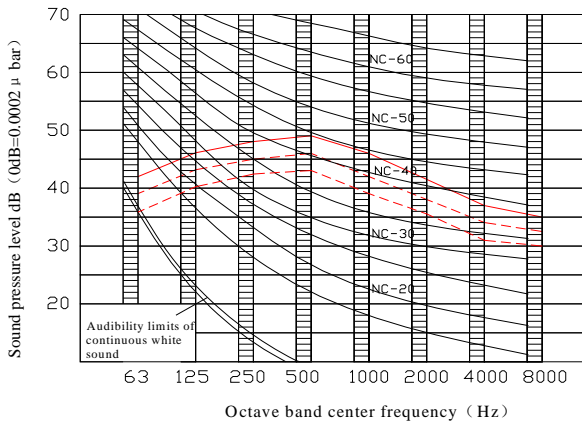
TMVDHN80/I4RN1S

TMVDHN90/I4RN1S

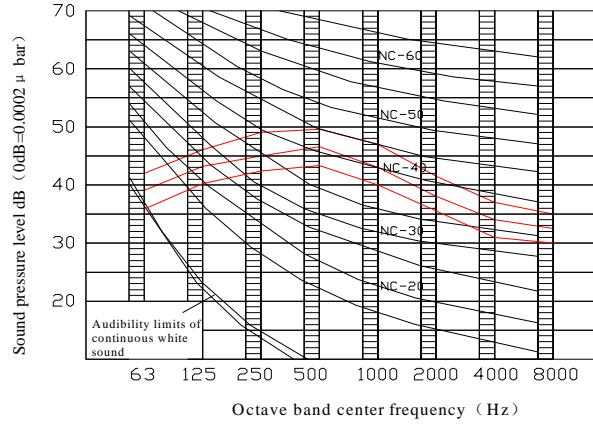
TMVDHN112/I4RN1S



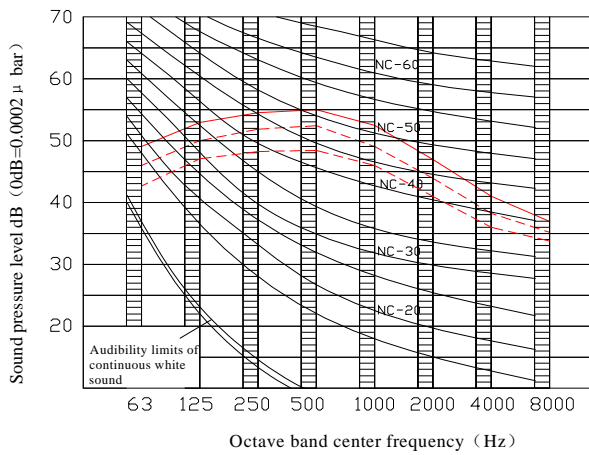
TMVDHN140/I4RN1S



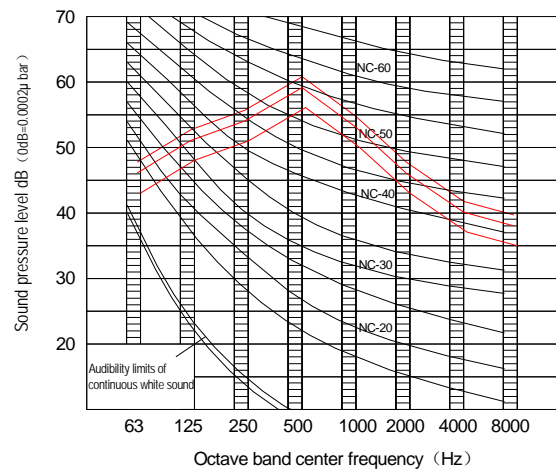
TMVDHN160/I4RN1S



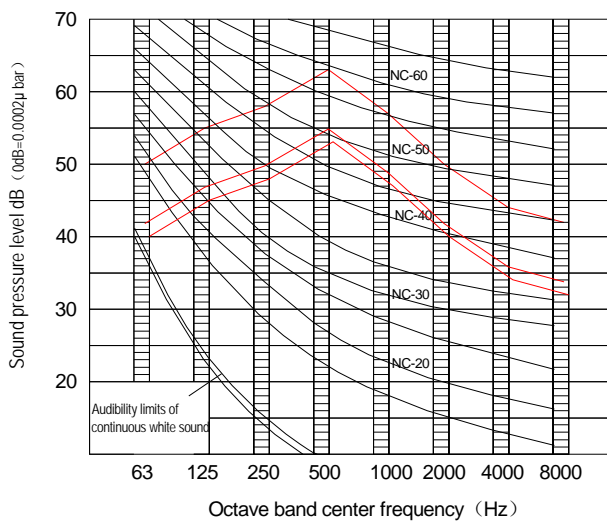
TMVDHN200/I4RN1S, TMVDHN250/I4RN1S, TMVDHN280/I4RN1S



TMVDHN400/I4RN1S, TMVDHN450/I4RN1S



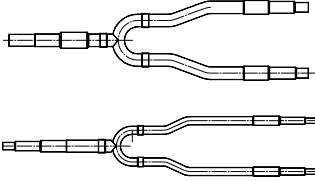
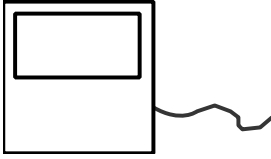








TMVDHN560/I4RN1S



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 (except 400,450,560 model)	2		To connect drain pipe
Branch header (for 200 and up model) package Code: 201609891015 Model:CE-MDV-BY101N1(MDV-BY101N1)	2		1 liquid and 1 gas branch To connect the two circuits of indoor unit as one system.
Wired controller (KJR-29B1/BK-E)	1		Control the air conditioner.
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 (except 400,450,560 model)	1		For drainage
Clasp	1		Chucking the joint which connect the drain hose and the outlet of indoor unit
Water connecting pipe (only for 400,450,560 model)	1		To connect drain pipe
EXV connecting pipe ass'y (only for 400,450,560 model)	2		To connect the throttle components.
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



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برترین نام و نشان های تجاری ایران

