



Technical Service Manual

TVR LX Systems

Low Static Pressure Duct Units with DC Fan Motor
220-240V/50-60Hz/1ph



August 2015

Low Static Pressure Duct with DC Fan Motor

1. Features	2
2. Specifications	3
3. Dimensions	7
4. Service Spaces	8
5. Piping Diagrams	9
6. Wiring Diagrams	10
7. Fan Performance	11
8. Capacity Tables.....	13
9. Electrical Characteristics	19
10. Sound Levels	20
11. Accessories.....	25

1. Features

1.1 Adopting DC fan motor

Efficiency can be up to 90%. Contrast with the AC fan motor, the power consumption of DC fan motor can reduce up to 30%.



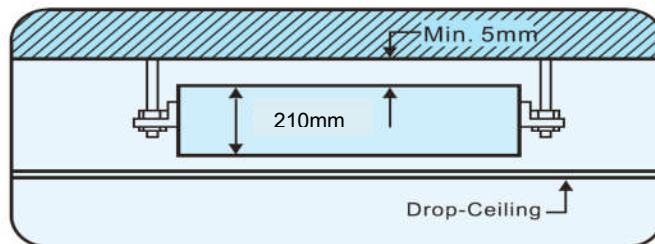
1.2 V shape evaporator

—V shape evaporator design enhances heat exchanging efficiency about 22%.

1.3 Less weight and super thin

—Flat design for easy fit when ceiling over head space is minimal. Only 210 mm in height, this model can be installed in rooms with as little as 220 mm depth between the drop-ceiling and ceiling slab.

1.4 The length of air duct can be 6m.



1.5 Wide capacity range

—The capacity range is from 1.8kw to 7.1kw, totally 7 models available.

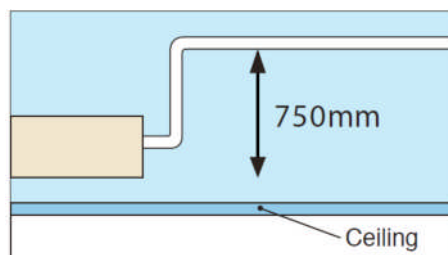
1.6 Convenient installation and maintenance

1.6.1 The EXV is fixed inside the indoor unit.

1.6.2 The connection pipe is flexible pipe, so it can change the connection direction conveniently.

1.6.3 Optional drain pump

With a drain-up pump (750mm pump head) as an optional accessory.



1.7 Meet CE certification requirements

Thanks to the DC fan motor, this low static pressure duct indoor unit can meet the latest CE certification requirements.

2. Specifications

Model			4TVL0006DF000AA	4TVL0007DF000AA
Power supply		V-Hz-Ph	220-240V~50/60Hz	
Cooling	Capacity	kW	1.8	2.2
		Btu/h	6100	7500
	Input	W	23	23
	Rated current	A	0.31	0.31
Heating	Capacity	kW	2.2	2.6
		Btu/h	7500	8900
	Input	W	23	23
	Rated current	A	0.31	0.31
Indoor fan motor	Model		WZDK100-38GS	WZDK100-38GS
	Type		DC motor	DC motor
	Brand		Panasonic/Nidec/Welling	Panasonic/Nidec/Welling
	Input	W	21	21
	Speed (H/M/L)	r/min	940/840/690	940/840/690
Indoor coil	Number of rows		2	2
	Tube pitch(a)x row pitch(b)	in(mm)	13/16 ×17/32(21×13.37)	13/16 ×17/32(21×13.37)
	Fin spacing	in(mm)	1/16 (1.5)	1/16 (1.5)
	Fin type		Hydrophilic aluminum	Hydrophilic aluminum
	Tube outside diameter and type	in(mm)	9/32 (Φ7)	9/32 (Φ7)
			Inner groove tube	Inner groove tube
	Coil length x height	in(mm)	20-9/32×5-25/32 (515×147)	20-9/32×5-25/32 (515×147)
	Number of circuits		3	3
Indoor air flow (H/M/L)		m ³ /h	590/520/415	590/520/415
		CFM	347/306/244	347/306/244
Indoor external static pressure (H)		Pa	10(10-30)	10(10-30)
Indoor noise level (H/M/L)		dB(A)	34/26/24	34/26/24
Indoor unit	Dimension (W×H×D)	mm	740×210×470	740×210×470
	Packing (W×H×D)	mm	910×230×510	910×230×510
	Net/Gross weight	kg	13.5/17	13.5/17
Refrigerant type			R410A	R410A
Throttle		Type	EXV	EXV
		Model	D20MISZ-1R(L)	D20MISZ-1R(L)
Design pressure(H/L)		MPa	4.4/2.6	4.4/2.6
Refrigerant piping	Liquid side/ Gas side	mm	Φ6.35/ Φ12.7	Φ6.35/ Φ12.7
Connecting wiring	Power wiring	mm ²	3x2.5	3x2.5
	Signal wiring	mm ²	3x0.75	3x0.75
Drainage water pipe diameter			ODΦ25	ODΦ25

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

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

Low Static Pressure Duct with DC Fan Motor

Model			4TVL0009DF000AA	4TVL0012DF000AA
Power supply		V-Hz-Ph	220-240V~50/60Hz	
Cooling	Capacity	kW	2.8	3.6
		Btu/h	9600	12300
	Input	W	23	30
	Rated current	A	0.31	0.36
Heating	Capacity	kW	3.2	4
		Btu/h	10900	13600
	Input	W	23	30
	Rated current	A	0.31	0.36
Indoor fan motor	Model		WZDK100-38GS	WZDK100-38GS
	Type		DC motor	DC motor
	Brand		Panasonic/Nidec/Welling	Panasonic/Nidec/Welling
	Input	W	21	27
	Speed (H/M/L)	r/min	940/840/690	1010/890/770
Indoor coil	Number of rows		2	2
	Tube pitch(a)x row pitch(b)	in(mm)	13/16 ×17/32(21×13.37)	13/16 ×17/32(21×13.37)
	Fin spacing	in(mm)	1/16 (1.5)	1/16 (1.5)
	Fin type		Hydrophilic aluminum	Hydrophilic aluminum
	Tube outside diameter and type	in(mm)	9/32 (Φ7)	9/32 (Φ7)
			Inner groove tube	Inner groove tube
	Coil length x height	in(mm)	20-9/32×5-25/32 (515×147)	20-9/32×5-25/32 (515×147)
Number of circuits		3	3	
Indoor air flow (H/M/L)		m ³ /h	590/520/415	655/560/465
		CFM	347/306/244	386/330/274
Indoor external static pressure (H)		Pa	10(10~30)	10(10~30)
Indoor noise level (H/M/L)		dB(A)	34/26/24	37/31/28
Indoor unit	Dimension (W×H×D)	mm	740×210×470	740×210×470
	Packing (W×H×D)	mm	910×230×510	910×230×510
	Net/Gross weight	kg	13.5/17	13.5/17
Refrigerant type			R410A	R410A
Throttle		Type	EXV	EXV
		Model	D20MISZ-1R(L)	D20MISZ-1R(L)
Design pressure(H/L)		MPa	4.4/2.6	4.4/2.6
Refrigerant piping	Liquid side/ Gas side	mm	Φ6.35/ Φ12.7	Φ6.35/ Φ12.7
Connecting wiring	Power wiring	mm ²	3x2.5	3x2.5
	Signal wiring	mm ²	3x0.75	3x0.75
Drainage water pipe diameter			ODΦ25	ODΦ25

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

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

Model			4TVL0015DF000AA	4TVL0018DF000AA
Power supply		V-Hz-Ph	220-240V~50/60Hz	
Cooling	Capacity	kW	4.5	5.6
		Btu/h	15400	19100
	Input	W	46	53
	Rated current	A	0.4	0.5
Heating	Capacity	kW	5	6.3
		Btu/h	17100	21500
	Input	W	46	53
	Rated current	A	0.4	0.5
Indoor fan motor	Model		WZDK100-38GS-2	WZDK100-38GS-2
	Type		DC motor	DC motor
	Brand		Panasonic/Nidec/Welling	Panasonic/Nidec/Welling
	Input	W	41	47
	Speed (H/M/L)	r/min	1030/930/780	1080/930/780
Indoor coil	Number of rows		2	2
	Tube pitch(a)x row pitch(b)	in(mm)	13/16 ×17/32(21×13.37)	13/16 ×17/32(21×13.37)
	Fin spacing	in(mm)	1/16 (1.5)	1/16 (1.5)
	Fin type		Hydrophilic aluminum	Hydrophilic aluminum
	Tube outside diameter and type	in(mm)	9/32 (Φ7)	9/32 (Φ7)
			Inner groove tube	Inner groove tube
	Coil length x height	in(mm)	28-57/64×5-25/32 (735×147)	28-57/64×5-25/32 (735×147)
Number of circuits		6	6	
Indoor air flow (H/M/L)		m ³ /h	856/740/600	905/740/580
		CFM	504/436/353	533/436/341
Indoor external static pressure (H)		Pa	10(10~30)	10(10~30)
Indoor noise level (H/M/L)		dB(A)	38/31/28	38/31/28
Indoor unit	Dimension (W×H×D)	mm	960×210×470	960×210×470
	Packing (W×H×D)	mm	1130×230×510	1130×230×510
	Net/Gross weight	kg	17.5/22	17.5/22
Refrigerant type			R410A	R410A
Throttle		Type	EXV	EXV
		Model	D20MISZ-1R(L)	D20MISZ-1R(L)
Design pressure(H/L)		MPa	4.4/2.6	4.4/2.6
Refrigerant piping	Liquid side/ Gas side	mm	Φ6.35/ Φ12.7	Φ9.53/ Φ15.9
Connecting wiring	Power wiring	mm ²	3x2.5	3x2.5
	Signal wiring	mm ²	3x0.75	3x0.75
Drainage water pipe diameter			ODΦ25	ODΦ25

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

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

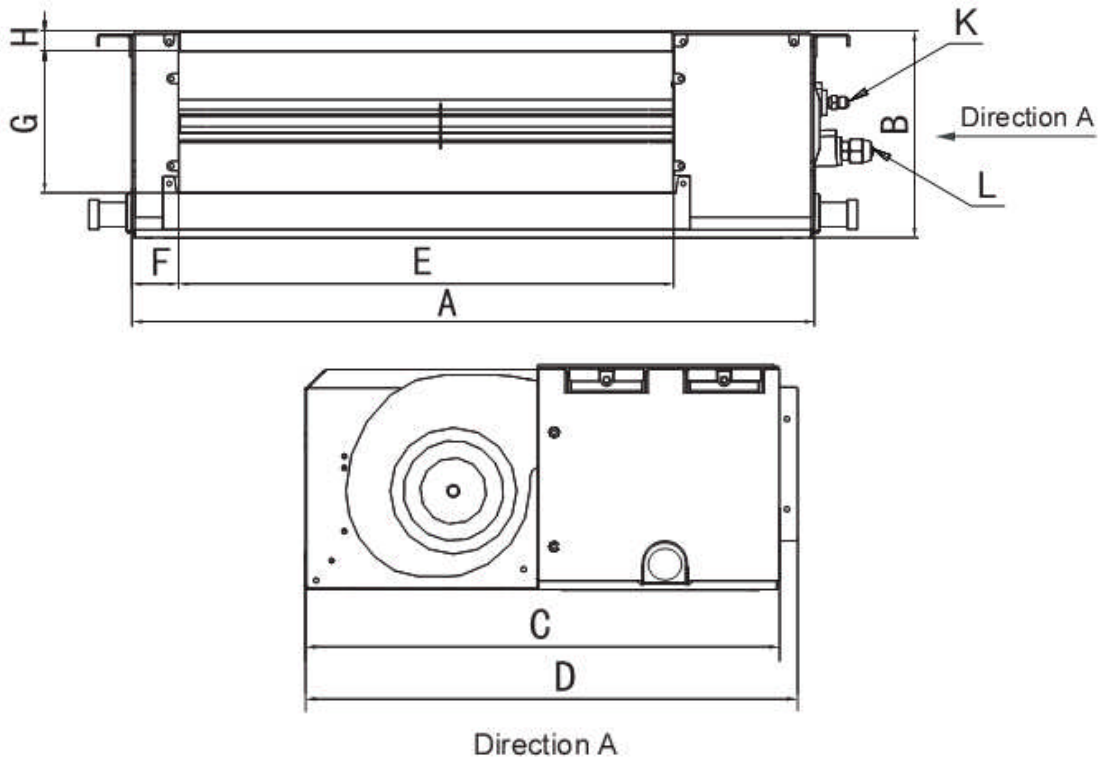
Low Static Pressure Duct with DC Fan Motor

Model			4TVL0024DF000AA
Power supply		V-Hz-Ph	220-240V~50/60Hz
Cooling	Capacity	kW	7.1
		Btu/h	24200
	Input	W	53
	Rated current	A	0.5
Heating	Capacity	kW	8
		Btu/h	27300
	Input	W	53
	Rated current	A	0.5
Indoor fan motor	Model		WZDK100-38GS-1
	Type		DC motor
	Brand		Panasonic/Nidec/Welling
	Input	W	48
	Speed (H/M/L)	r/min	1070/980/840
Indoor coil	Number of rows		2
	Tube pitch(a)x row pitch(b)	in(mm)	13/16 ×17/32(21×13.37)
	Fin spacing	in(mm)	1/16 (1.5)
	Fin type		Hydrophilic aluminum
	Tube outside diameter and type	in(mm)	9/32 (Φ7)
			Inner groove tube
	Coil length x height	in(mm)	37-31/64x5-25/32 (952x147)
Number of circuits		6	
Indoor air flow (H/M/L)		m ³ /h	970/800/660
		CFM	571/471/388
Indoor external static pressure (H)		Pa	10(10~30)
Indoor noise level (H/M/L)		dB(A)	40/32/29
Indoor unit	Dimension (W×H×D)	mm	1180×210×470
	Packing (W×H×D)	mm	1350×230×510
	Net/Gross weight	kg	21/26.5
Refrigerant type			R410A
Throttle		Type	EXV
		Model	D20MISZ-1R(L)
Design pressure(H/L)		MPa	4.4/2.6
Refrigerant piping	Liquid side/ Gas side	mm	Φ9.53/ Φ15.9
Connecting wiring	Power wiring	mm ²	3x2.5
	Signal wiring	mm ²	3x0.75
Drainage water pipe diameter			ODΦ25

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

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

3. Dimensions



Mounted lug size

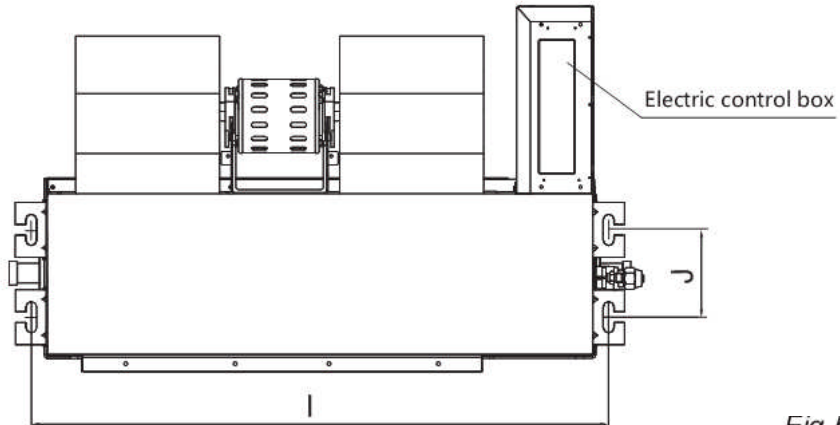


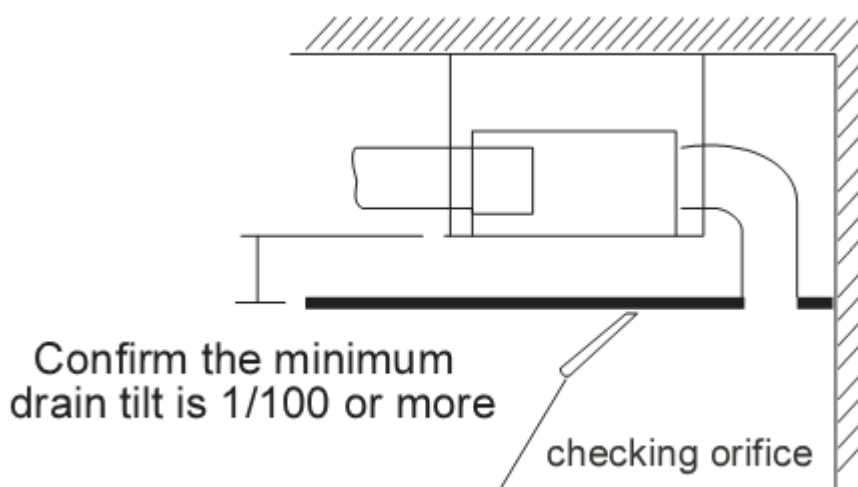
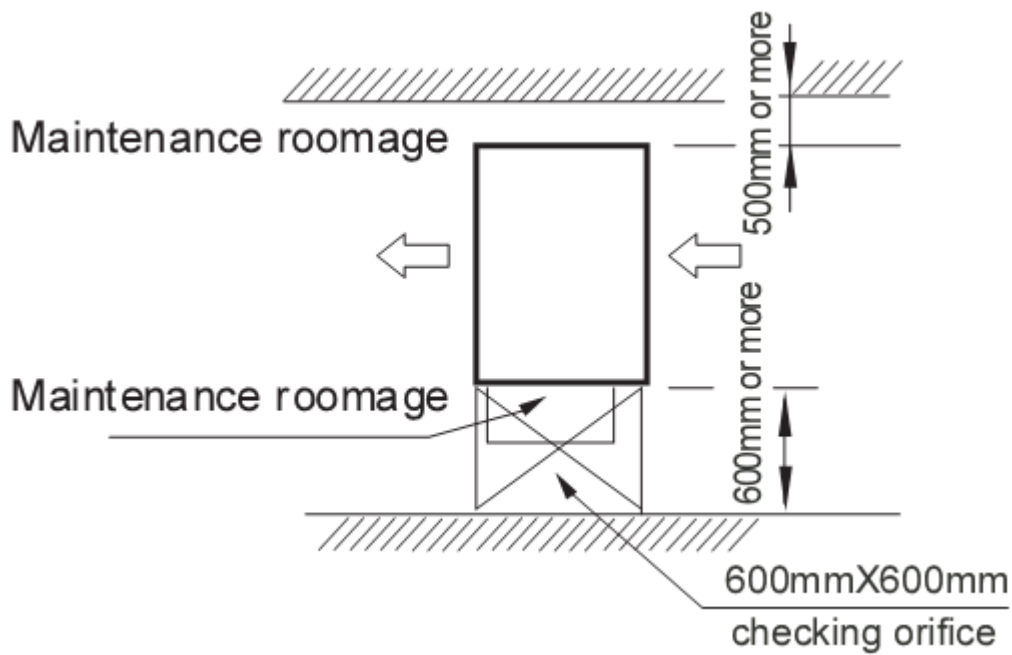
Fig.5-9

MODEL(kW)	A	B	C	D	E
18~36	700	210	450	470	512
45~56	920	210	450	470	732
71	1140	210	450	470	952

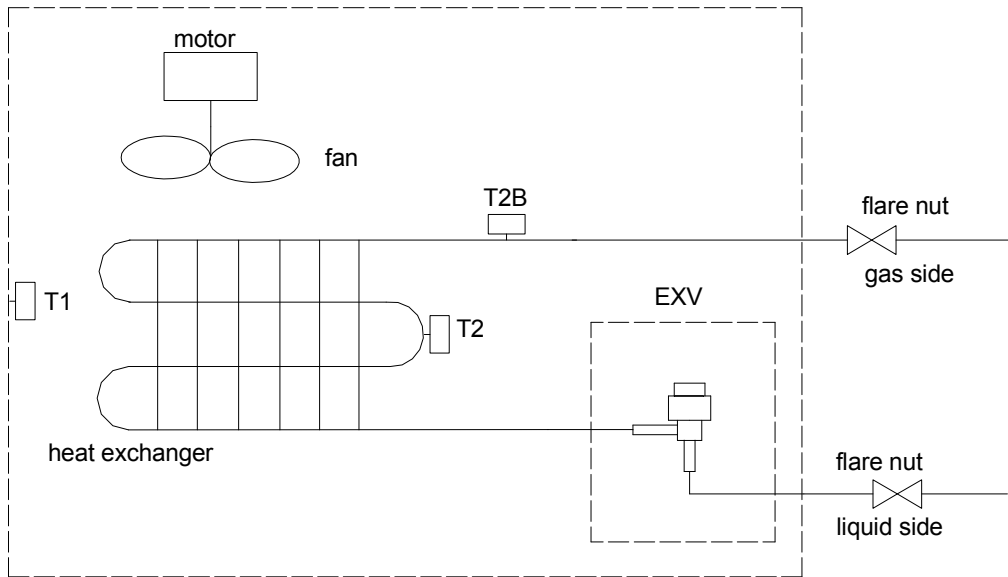
MODEL(kW)	F	G	H	I	J
18~36	45	145	17	740	112
45~56	45	145	17	960	112
71	45	145	17	1180	112

4. Service Spaces

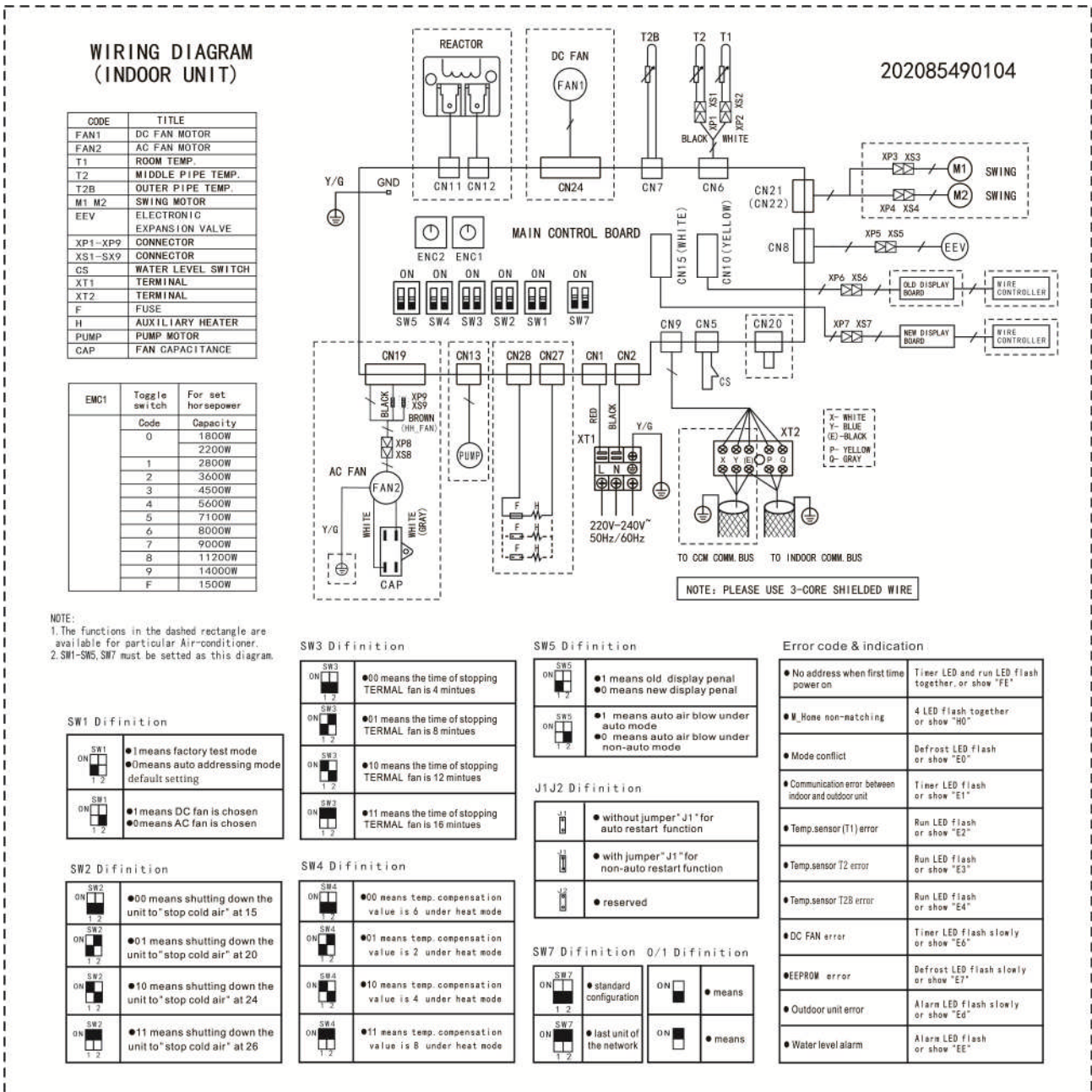
- Ensure the needed spaces for installation and maintenance.
- The ceiling is horizontal, and its structure can endure the weight of the indoor unit.
- The outlet and the inlet are not impeded, and the influence of external air is the least.
- The air flow can reach throughout the room.
- The connecting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



5.Piping Diagrams



6. Wiring Diagrams



SW1 Dification

ON SW1 1 2	●1 means factory test mode ●0 means auto addressing mode default setting.
ON SW1 1 2	●1 means DC fan is chosen ●0 means AC fan is chosen

SW2 Dification

ON SW2 1 2	●00 means shutting down the unit to "stop cold air" at 15
ON SW2 1 2	●01 means shutting down the unit to "stop cold air" at 20
ON SW2 1 2	●10 means shutting down the unit to "stop cold air" at 24
ON SW2 1 2	●11 means shutting down the unit to "stop cold air" at 26

SW3 Dification

ON SW3 1 2	●00 means the time of stopping TERMAL fan is 4 minutes
ON SW3 1 2	●01 means the time of stopping TERMAL fan is 8 minutes
ON SW3 1 2	●10 means the time of stopping TERMAL fan is 12 minutes
ON SW3 1 2	●11 means the time of stopping TERMAL fan is 16 minutes

SW4 Dification

ON SW4 1 2	●00 means temp. compensation value is 6 under heat mode
ON SW4 1 2	●01 means temp. compensation value is 2 under heat mode
ON SW4 1 2	●10 means temp. compensation value is 4 under heat mode
ON SW4 1 2	●11 means temp. compensation value is 8 under heat mode

SW5 Dification

ON SW5 1 2	●1 means old display penal ●0 means new display penal
ON SW5 1 2	●1 means auto air blow under auto mode ●0 means auto air blow under non-auto mode

J1J2 Dification

J1	● without jumper "J1" for auto restart function
J1	● with jumper "J1" for non-auto restart function
J2	● reserved

SW7 Dification 0/1 Dification

ON SW7 1 2	● standard configuration	ON	● means
ON SW7 1 2	● last unit of the network	ON	● means

Error code & indication

● No address when first time power on	Timer LED and run LED flash together, or show "FE"
● Home non-matching	4 LED flash together or show "H0"
● Mode conflict	Defrost LED flash or show "E0"
● Communication error between indoor and outdoor unit	Timer LED flash or show "E1"
● Temp. sensor (T1) error	Run LED flash or show "E2"
● Temp. sensor T2 error	Run LED flash or show "E3"
● Temp. sensor T2B error	Run LED flash or show "E4"
● DC FAN error	Timer LED flash slowly or show "E6"
● EEPROM error	Defrost LED flash slowly or show "E7"
● Outdoor unit error	Alarm LED flash slowly or show "E8"
● Water level alarm	Alarm LED flash or show "EE"

7.Fan Performance

How to Read the Diagram

For static pressure dial code, please see the following Table:

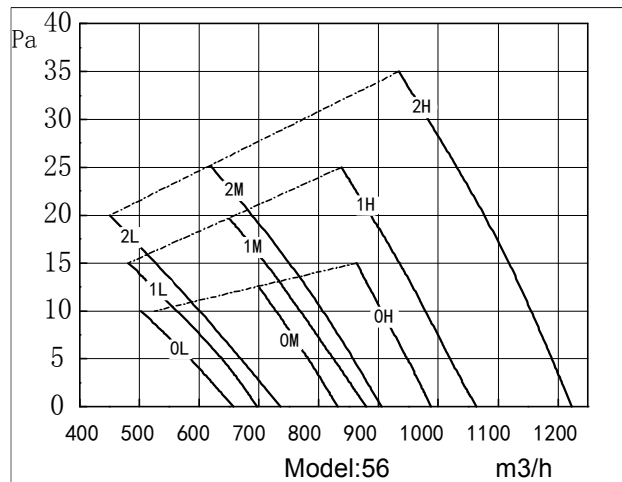
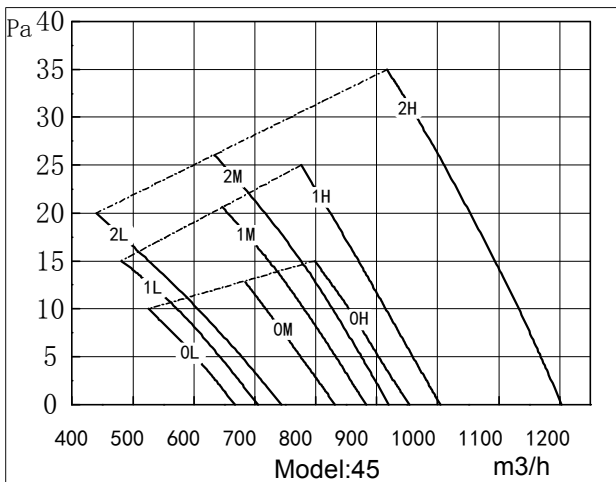
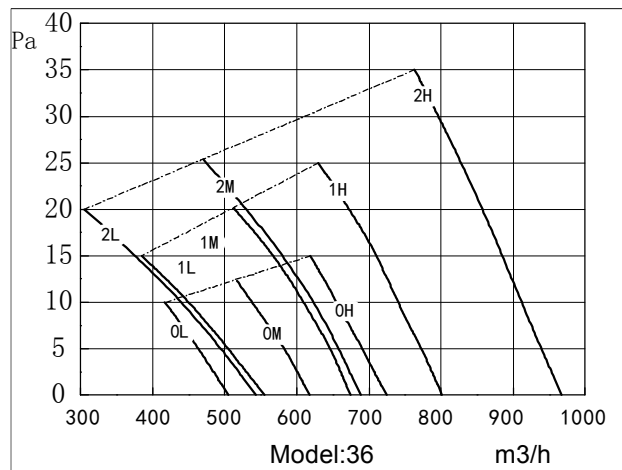
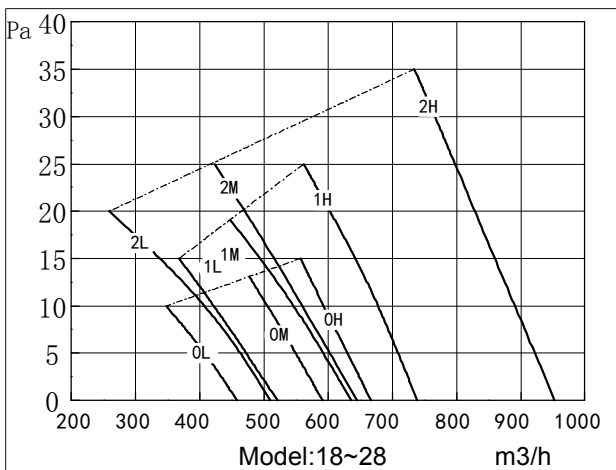
ENC2	Low static pressure	Medium static pressure	High static pressure
Model			
18~71	0~15Pa	10~25Pa	15~30Pa

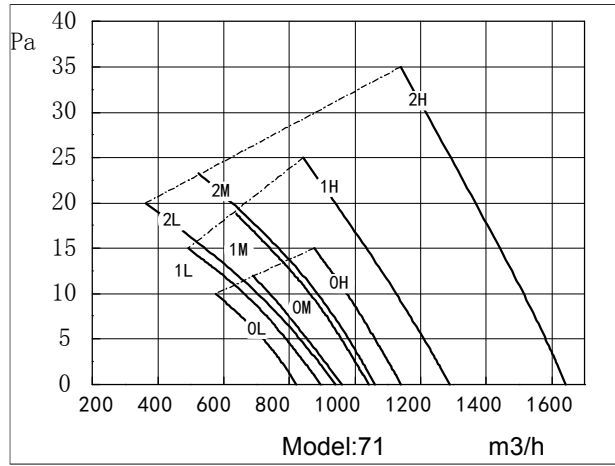
1.The noise is higher when ENC2 is than that when it is , and the noise is higher when ENC2 is than that when it is .

2.In the curve diagram for static pressure air flow volume, 2H means ENC2 is , and the fan in high speed. 2M means ENC2 is , and the fan in medium speed. 2L means ENC2 is , and the fan in low speed.

1H,1M,1L indicate the testing diagram of the fan in high, medium and low speed when ENC2 is .

0H,0M,0L indicate the testing diagram of the fan in high, medium and low speed when ENC2 is .





- 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 for each speed and it is the min. airflow of this duct unit. At this flow volume, the fan achieves the max. ESP and indoor evaporator may be protected by low temperature.
- As well, there's a limit airflow volume, which is the max. value at each speed. It requests the unit to connect ducts for air inlet and outlet to prevent damage from the high temperature of motor/evaporator.

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
1.8	10.0	1.2	1.1	1.5	1.1	1.7	1.2	1.8	1.2	1.9	1.3	2.1	1.3	2.4	1.3
	12.0	1.2	1.1	1.5	1.1	1.7	1.2	1.8	1.2	1.9	1.3	2.1	1.3	2.3	1.2
	14.0	1.2	1.1	1.5	1.1	1.7	1.2	1.8	1.2	1.9	1.3	2.1	1.3	2.3	1.2
	16.0	1.2	1.1	1.5	1.1	1.7	1.2	1.8	1.2	1.9	1.3	2.1	1.3	2.3	1.2
	18.0	1.2	1.1	1.5	1.1	1.7	1.2	1.8	1.2	1.9	1.3	2.1	1.3	2.3	1.2
	20.0	1.2	1.1	1.5	1.1	1.7	1.2	1.8	1.2	1.9	1.3	2.1	1.3	2.2	1.1
	21.0	1.2	1.1	1.5	1.1	1.7	1.2	1.8	1.2	1.9	1.3	2.1	1.3	2.2	1.1
	23.0	1.2	1.1	1.5	1.1	1.7	1.2	1.8	1.2	1.9	1.3	2.1	1.2	2.2	1.1
	25.0	1.2	1.1	1.5	1.1	1.7	1.2	1.8	1.2	1.9	1.3	2.1	1.2	2.1	1.1
	27.0	1.2	1.1	1.5	1.1	1.7	1.2	1.8	1.2	1.9	1.3	2.1	1.2	2.1	1.1
	29.0	1.2	1.1	1.5	1.1	1.7	1.2	1.8	1.2	1.9	1.3	2.0	1.2	2.1	1.1
	31.0	1.2	1.1	1.5	1.1	1.7	1.2	1.8	1.2	1.9	1.3	2.0	1.2	2.1	1.1
	33.0	1.2	1.1	1.5	1.1	1.7	1.2	1.8	1.2	1.9	1.3	2.0	1.2	2.0	1.2
	35.0	1.2	1.1	1.5	1.1	1.7	1.2	1.8	1.2	1.9	1.3	1.9	1.1	2.0	1.2
	37.0	1.2	1.1	1.5	1.1	1.7	1.2	1.8	1.2	1.9	1.3	1.9	1.1	1.9	1.1
	39.0	1.2	1.1	1.5	1.1	1.7	1.2	1.8	1.2	1.8	1.2	1.9	1.1	1.9	1.1
42.0	1.2	1.1	1.5	1.1	1.7	1.2	1.8	1.2	1.8	1.2	1.9	1.1	1.9	1.1	
44.0	1.2	1.1	1.5	1.1	1.7	1.2	1.8	1.2	1.8	1.2	1.9	1.1	1.9	1.1	
46.0	1.2	1.1	1.5	1.2	1.7	1.2	1.8	1.2	1.8	1.2	1.9	1.1	1.9	1.1	
2.2	10.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.6	1.6	2.9	1.5
	12.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.6	1.6	2.8	1.5
	14.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.6	1.6	2.8	1.5
	16.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.6	1.6	2.8	1.5
	18.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.6	1.6	2.8	1.4
	20.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.6	1.6	2.7	1.4
	21.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.6	1.6	2.7	1.4
	23.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.5	1.5	2.7	1.4
	25.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.5	1.5	2.6	1.4
	27.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.5	1.5	2.6	1.4
	29.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.4	1.4	2.5	1.4
	31.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.4	1.4	2.5	1.4
	33.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.4	1.4	2.4	1.4
	35.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.3	1.3	2.4	1.4
	37.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.3	1.6	2.3	1.3	2.3	1.4
	39.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.2	1.5	2.3	1.3	2.3	1.4
42.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.2	1.5	2.3	1.3	2.3	1.4	
44.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.2	1.5	2.3	1.3	2.3	1.4	
46.0	1.5	1.3	1.8	1.4	2.1	1.5	2.2	1.5	2.2	1.5	2.3	1.3	2.3	1.4	
2.8	10.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	3.0	1.9	3.3	2.0	3.7	2.0
	12.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	3.0	1.9	3.3	2.0	3.6	2.0
	14.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	3.0	1.9	3.3	2.0	3.6	2.0
	16.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	3.0	1.9	3.3	2.0	3.5	1.9
	18.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	3.0	1.9	3.3	2.0	3.5	1.9
	20.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	3.0	1.9	3.3	2.0	3.4	1.9

Low Static Pressure Duct with DC Fan Motor

	21.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	3.0	1.9	3.3	2.0	3.4	1.9
	23.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	3.0	1.9	3.3	2.0	3.4	1.9
	25.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	3.0	1.9	3.2	1.9	3.3	1.9
	27.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	3.0	1.9	3.2	1.9	3.3	1.9
	29.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	3.0	1.9	3.1	1.8	3.2	1.8
	31.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	3.0	1.9	3.1	1.8	3.2	1.7
	33.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	3.0	1.9	3.1	1.8	3.1	1.7
	35.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	2.9	1.9	3.0	1.8	3.1	1.7
	37.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	2.9	1.9	3.0	1.8	3.0	1.7
	39.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	2.9	1.9	3.0	1.9	3.0	1.7
	42.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	2.9	1.9	3.0	1.9	3.0	1.7
	44.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	2.9	1.9	3.0	1.9	3.0	1.7
	46.0	1.9	1.6	2.3	1.8	2.6	1.9	2.8	1.9	2.9	1.9	3.0	1.9	3.0	1.7
3.6	10.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.8	2.5	4.3	2.4	4.7	2.5
	12.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.8	2.5	4.3	2.4	4.7	2.5
	14.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.8	2.5	4.3	2.4	4.6	2.4
	16.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.8	2.5	4.3	2.4	4.5	2.4
	18.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.8	2.5	4.3	2.4	4.5	2.4
	20.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.8	2.5	4.3	2.4	4.4	2.3
	21.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.8	2.5	4.3	2.4	4.4	2.3
	23.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.8	2.5	4.1	2.3	4.3	2.2
	25.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.8	2.5	4.1	2.3	4.2	2.2
	27.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.8	2.5	4.0	2.2	4.2	2.2
	29.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.8	2.5	4.0	2.2	4.1	2.2
	31.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.8	2.5	4.2	2.6	4.1	2.2
	33.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.8	2.5	4.2	2.6	3.9	2.1
35.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.8	2.5	4.2	2.6	3.9	2.1	
37.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.7	2.4	3.8	2.3	3.9	2.1	
39.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.7	2.4	3.8	2.3	3.8	2.1	
42.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.7	2.4	3.8	2.3	3.8	2.1	
44.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.7	2.4	3.8	2.3	3.8	2.1	
46.0	2.5	1.9	2.9	2.1	3.4	2.3	3.6	2.4	3.7	2.4	3.8	2.3	3.8	2.1	
4.5	10.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	5.3	3.4	5.9	3.0
	12.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	5.3	3.4	5.9	3.0
	14.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	5.3	3.4	5.8	3.0
	16.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	5.3	3.4	5.6	2.9
	18.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	5.3	3.4	5.7	3.0
	20.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	5.3	3.4	5.7	3.0
	21.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	5.3	3.4	5.6	3.0
	23.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	5.3	3.4	5.5	3.0
	25.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	5.2	3.0	5.4	2.9
	27.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	5.1	3.0	5.2	2.8
	29.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	5.1	2.9	5.2	2.8
	31.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	5.0	2.9	5.1	2.7
	33.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	4.9	2.8	5.1	2.7
35.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	4.8	2.8	5.0	2.7	
37.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.8	3.0	4.8	2.9	4.9	2.6	
39.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.6	2.8	4.7	2.8	4.8	2.6	
42.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.6	2.8	4.7	2.8	4.8	2.6	
44.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.6	2.8	4.7	2.8	4.8	2.6	
46.0	3.1	2.4	3.7	2.6	4.2	2.8	4.5	2.9	4.6	2.8	4.7	3.1	4.8	2.6	
5.6	10.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	6.6	3.6	7.3	3.5

	12.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	6.6	3.6	7.2	3.5
	14.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	6.6	3.6	7.1	3.5
	16.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	6.6	3.6	7.0	3.4
	18.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	6.6	3.6	6.8	3.4
	20.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	6.6	3.6	6.7	3.3
	21.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	6.6	3.6	6.6	3.3
	23.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	6.6	3.6	6.6	3.3
	25.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	6.6	3.6	6.5	3.2
	27.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	6.4	3.5	6.4	3.2
	29.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	6.3	3.5	6.4	3.3
	31.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	6.2	3.4	6.2	3.2
	33.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	6.2	3.4	6.2	3.2
	35.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	6.0	3.3	6.0	3.1
	37.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.9	3.5	5.9	3.2	6.0	3.1
	39.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.7	3.4	5.8	3.2	6.0	3.1
	42.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.7	3.4	5.8	3.2	6.0	3.1
	44.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.7	3.4	5.8	3.2	6.0	3.1
	46.0	3.9	2.7	4.6	3.0	5.3	3.3	5.6	3.4	5.7	3.7	5.8	3.2	6.0	3.1
7.1	10.0	4.9	3.6	5.8	4.0	6.7	4.3	7.1	4.5	7.5	4.4	8.4	4.5	9.2	4.6
	12.0	4.9	3.6	5.8	4.0	6.7	4.3	7.1	4.5	7.5	4.4	8.4	4.5	9.1	4.5
	14.0	4.9	3.6	5.8	4.0	6.7	4.3	7.1	4.5	7.5	4.4	8.4	4.5	9.0	4.5
	16.0	4.9	3.6	5.8	4.0	6.7	4.3	7.1	4.5	7.5	4.4	8.4	4.5	8.9	4.4
	18.0	4.9	3.6	5.8	4.0	6.7	4.3	7.1	4.5	7.5	4.4	8.4	4.5	8.7	4.3
	20.0	4.9	3.6	5.8	4.0	6.7	4.3	7.1	4.5	7.5	4.4	8.4	4.5	8.5	4.2
	21.0	4.9	3.6	5.8	4.0	6.7	4.3	7.1	4.5	7.5	4.4	8.4	4.5	8.4	4.2
	23.0	4.9	3.6	5.8	4.0	6.7	4.3	7.1	4.5	7.5	4.4	8.4	4.5	8.3	4.1
	25.0	4.9	3.6	5.8	4.0	6.7	4.3	7.1	4.5	7.5	4.4	8.4	4.5	8.2	4.1
	27.0	4.9	3.6	5.8	4.0	6.7	4.3	7.1	4.5	7.5	4.4	8.1	4.3	8.2	4.1
	29.0	4.9	3.6	5.8	4.0	6.7	4.3	7.1	4.5	7.5	4.5	8.0	4.3	8.1	4.1
	31.0	4.9	3.6	5.8	4.0	6.7	4.3	7.1	4.5	7.5	4.5	7.9	4.3	7.8	4.0
	33.0	4.9	3.6	5.8	4.0	6.7	4.3	7.1	4.5	7.5	4.5	7.8	4.2	7.8	4.0
	35.0	4.9	3.6	5.8	4.0	6.7	4.3	7.1	4.5	7.5	4.5	7.6	4.1	7.7	3.9
	37.0	4.9	3.6	5.8	4.0	6.7	4.3	7.1	4.5	7.4	4.4	7.5	4.1	7.6	4.0
	39.0	4.9	3.6	5.8	4.0	6.7	4.3	7.1	4.5	7.2	4.3	7.4	4.1	7.6	4.0
42.0	4.9	3.6	5.8	4.0	6.7	4.3	7.1	4.5	7.2	4.3	7.4	4.1	7.6	4.0	
44.0	4.9	3.6	5.8	4.0	6.7	4.3	7.1	4.5	7.2	4.3	7.4	4.1	7.6	4.0	
46.0	4.9	3.6	5.8	4.0	6.7	4.3	7.1	4.5	7.2	4.3	7.4	4.1	7.6	4.0	

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
1.8	-20	-19.8	1.23	1.23	1.23	1.23	1.23	1.23
	-19	-18.8	1.32	1.32	1.32	1.32	1.32	1.32
	-17	-16.7	1.39	1.39	1.39	1.39	1.39	1.39
	-15	-14.7	1.43	1.43	1.43	1.43	1.43	1.43
	-13.00	-12.60	1.52	1.52	1.52	1.52	1.52	1.52
	-11.00	-10.50	1.54	1.56	1.56	1.56	1.56	1.56
	-10.00	-9.50	1.61	1.61	1.61	1.61	1.61	1.61
	-9.10	-8.50	1.65	1.65	1.65	1.65	1.65	1.65
	-7.60	-7.00	1.67	1.67	1.67	1.67	1.67	1.67
	-5.60	-5.00	1.74	1.74	1.74	1.74	1.74	1.74
	-3.70	-3.00	1.83	1.83	1.83	1.83	1.83	1.83
	-0.70	0.00	1.96	1.96	1.96	1.96	1.96	1.85
	2.20	3.00	2.07	2.07	2.07	2.07	2.02	1.85
	4.10	5.00	2.13	2.13	2.13	2.13	2.02	1.85
	6.00	7.00	2.20	2.20	2.20	2.13	2.02	1.85
	7.90	9.00	2.27	2.27	2.20	2.13	2.02	1.85
9.80	11.00	2.33	2.33	2.20	2.13	2.02	1.85	
11.80	13.00	2.42	2.38	2.20	2.13	2.02	1.85	
13.70	15.00	2.49	2.38	2.20	2.13	2.02	1.85	
2.2	-20	-19.8	1.46	1.46	1.46	1.46	1.46	1.46
	-19	-18.8	1.56	1.56	1.56	1.56	1.56	1.56
	-17	-16.7	1.64	1.64	1.64	1.64	1.64	1.64
	-15	-14.7	1.69	1.69	1.69	1.69	1.69	1.69
	-13.00	-12.60	1.79	1.79	1.79	1.79	1.79	1.79
	-11.00	-10.50	1.82	1.85	1.85	1.85	1.85	1.85
	-10.00	-9.50	1.90	1.90	1.90	1.90	1.90	1.90
	-9.10	-8.50	1.95	1.95	1.95	1.95	1.95	1.95
	-7.60	-7.00	1.98	1.98	1.98	1.98	1.98	1.98
	-5.60	-5.00	2.05	2.05	2.05	2.05	2.05	2.05
	-3.70	-3.00	2.16	2.16	2.16	2.16	2.16	2.16
	-0.70	0.00	2.31	2.31	2.31	2.31	2.31	2.18
	2.20	3.00	2.44	2.44	2.44	2.44	2.39	2.18
	4.10	5.00	2.52	2.52	2.52	2.52	2.39	2.18
	6.00	7.00	2.60	2.60	2.60	2.52	2.39	2.18
	7.90	9.00	2.68	2.68	2.60	2.52	2.39	2.18
9.80	11.00	2.76	2.76	2.60	2.52	2.39	2.18	
11.80	13.00	2.86	2.81	2.60	2.52	2.39	2.18	
13.70	15.00	2.94	2.81	2.60	2.52	2.39	2.18	
2.8	-20	-19.8	1.79	1.79	1.79	1.79	1.79	1.79
	-19	-18.8	1.92	1.92	1.92	1.92	1.92	1.92
	-17	-16.7	2.02	2.02	2.02	2.02	2.02	2.02
	-15	-14.7	2.02	2.02	2.02	2.02	2.02	2.02
	-13.00	-12.60	2.14	2.14	2.14	2.14	2.14	2.14
	-11.00	-10.50	2.24	2.24	2.24	2.24	2.24	2.24
	-10.00	-9.50	2.34	2.34	2.34	2.34	2.34	2.34
	-9.10	-8.50	2.40	2.40	2.40	2.40	2.40	2.40

	-7.60	-7.00	2.43	2.43	2.43	2.43	2.43	2.43
	-5.60	-5.00	2.53	2.53	2.53	2.53	2.53	2.53
	-3.70	-3.00	2.66	2.66	2.66	2.66	2.66	2.66
	-0.70	0.00	2.85	2.85	2.85	2.85	2.85	2.69
	2.20	3.00	3.01	3.01	3.01	3.01	2.94	2.69
	4.10	5.00	3.10	3.10	3.10	3.10	2.94	2.69
	6.00	7.00	3.20	3.20	3.20	3.10	2.94	2.69
	7.90	9.00	3.30	3.30	3.20	3.10	2.94	2.69
	9.80	11.00	3.39	3.39	3.20	3.10	2.94	2.69
	11.80	13.00	3.52	3.46	3.20	3.10	2.94	2.69
	13.70	15.00	3.62	3.46	3.20	3.10	2.94	2.69
3.6	-20	-19.8	2.24	2.24	2.24	2.24	2.24	2.24
	-19	-18.8	2.40	2.40	2.40	2.40	2.40	2.40
	-17	-16.7	2.52	2.52	2.52	2.52	2.52	2.52
	-15	-14.7	2.60	2.60	2.60	2.60	2.60	2.60
	-13.00	-12.60	2.68	2.68	2.68	2.68	2.68	2.68
	-11.00	-10.50	2.80	2.80	2.80	2.80	2.80	2.80
	-10.00	-9.50	2.92	2.92	2.92	2.92	2.92	2.92
	-9.10	-8.50	3.00	3.00	3.00	3.00	3.00	3.00
	-7.60	-7.00	3.04	3.04	3.04	3.04	3.04	3.04
	-5.60	-5.00	3.16	3.16	3.16	3.16	3.16	3.16
	-3.70	-3.00	3.32	3.32	3.32	3.32	3.32	3.32
	-0.70	0.00	3.56	3.56	3.56	3.56	3.56	3.36
	2.20	3.00	3.76	3.76	3.76	3.76	3.68	3.36
	4.10	5.00	3.88	3.88	3.88	3.88	3.68	3.36
	6.00	7.00	4.00	4.00	4.00	3.88	3.68	3.36
	7.90	9.00	4.12	4.12	4.00	3.88	3.68	3.36
9.80	11.00	4.24	4.24	4.00	3.88	3.68	3.36	
11.80	13.00	4.40	4.32	4.00	3.88	3.68	3.36	
13.70	15.00	4.52	4.32	4.00	3.88	3.68	3.36	
4.5	-20	-19.8	2.80	2.80	2.80	2.80	2.80	2.80
	-19	-18.8	3.00	3.00	3.00	3.00	3.00	3.00
	-17	-16.7	3.15	3.15	3.15	3.15	3.15	3.15
	-15	-14.7	3.25	3.25	3.25	3.25	3.25	3.25
	-13.00	-12.60	3.35	3.35	3.35	3.35	3.35	3.35
	-11.00	-10.50	3.50	3.50	3.50	3.50	3.50	3.50
	-10.00	-9.50	3.65	3.65	3.65	3.65	3.65	3.65
	-9.10	-8.50	3.75	3.75	3.75	3.75	3.75	3.75
	-7.60	-7.00	3.80	3.80	3.80	3.80	3.80	3.80
	-5.60	-5.00	3.95	3.95	3.95	3.95	3.95	3.95
	-3.70	-3.00	4.15	4.15	4.15	4.15	4.15	4.15
	-0.70	0.00	4.45	4.45	4.45	4.45	4.45	4.20
	2.20	3.00	4.70	4.70	4.70	4.70	4.60	4.20
	4.10	5.00	4.85	4.85	4.85	4.85	4.60	4.20
	6.00	7.00	5.00	5.00	5.00	4.85	4.60	4.20
	7.90	9.00	5.15	5.15	5.00	4.85	4.60	4.20
9.80	11.00	5.30	5.30	5.00	4.85	4.60	4.20	
11.80	13.00	5.50	5.40	5.00	4.85	4.60	4.20	
13.70	15.00	5.65	5.40	5.00	4.85	4.60	4.20	
5.6	-20	-19.8	3.53	3.53	3.53	3.53	3.53	3.53
	-19	-18.8	3.78	3.78	3.78	3.78	3.78	3.78
	-17	-16.7	3.97	3.97	3.97	3.97	3.97	3.97

Low Static Pressure Duct with DC Fan Motor

	-15	-14.7	4.10	4.10	4.10	4.10	4.10	4.10
	-13.00	-12.60	4.22	4.22	4.22	4.22	4.22	4.22
	-11.00	-10.50	4.41	4.41	4.41	4.41	4.41	4.41
	-10.00	-9.50	4.60	4.60	4.60	4.60	4.60	4.60
	-9.10	-8.50	4.73	4.73	4.73	4.73	4.73	4.73
	-7.60	-7.00	4.79	4.79	4.79	4.79	4.79	4.79
	-5.60	-5.00	4.98	4.98	4.98	4.98	4.98	4.98
	-3.70	-3.00	5.23	5.23	5.23	5.23	5.23	5.23
	-0.70	0.00	5.61	5.61	5.61	5.61	5.61	5.29
	2.20	3.00	5.92	5.92	5.92	5.92	5.80	5.29
	4.10	5.00	6.11	6.11	6.11	6.11	5.80	5.29
	6.00	7.00	6.30	6.30	6.30	6.11	5.80	5.29
	7.90	9.00	6.49	6.49	6.30	6.11	5.80	5.29
	9.80	11.00	6.68	6.68	6.30	6.11	5.80	5.29
	11.80	13.00	6.93	6.80	6.30	6.11	5.80	5.29
	13.70	15.00	7.12	6.80	6.30	6.11	5.80	5.29
7.1	-20	-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. Electrical Characteristics

Model	Indoor Unit				Power Supply		IFM	
	Hz	Voltage	Min.	Max.	MCA	MFA	KW	FLA
4TVL0006DF000AA	50/60	220-240	187	264	0.375	15	0.016	0.3
4TVL0007DF000AA	50/60	220-240	187	264	0.375	15	0.016	0.3
4TVL0009DF000AA	50/60	220-240	187	264	0.375	15	0.016	0.3
4TVL0012DF000AA	50/60	220-240	187	264	0.375	15	0.021	0.3
4TVL0015DF000AA	50/60	220-240	187	264	0.5	15	0.032	0.4
4TVL0018DF000AA	50/60	220-240	187	264	0.625	15	0.037	0.5
4TVL0024DF000AA	50/60	220-240	187	264	0.5	15	0.027	0.4

Remark:

MCA: Min. Current Amps. (A)

MFA: Max. Fuse Amps. (A)

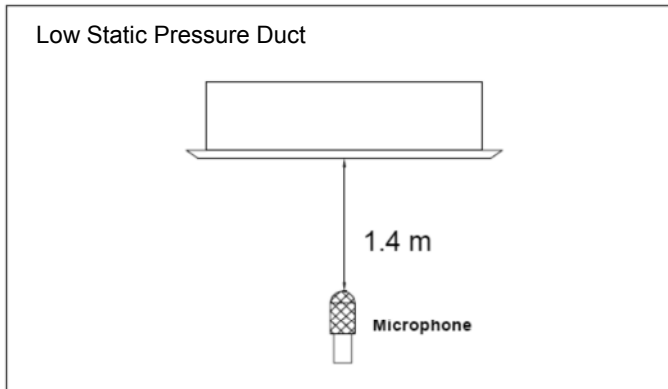
KW: Fan Motor Rated Output (kW)

FLA: Full Load Amps. (A)

IFM: Indoor Fan Motor

10.Sound Levels

10.1 Test condition

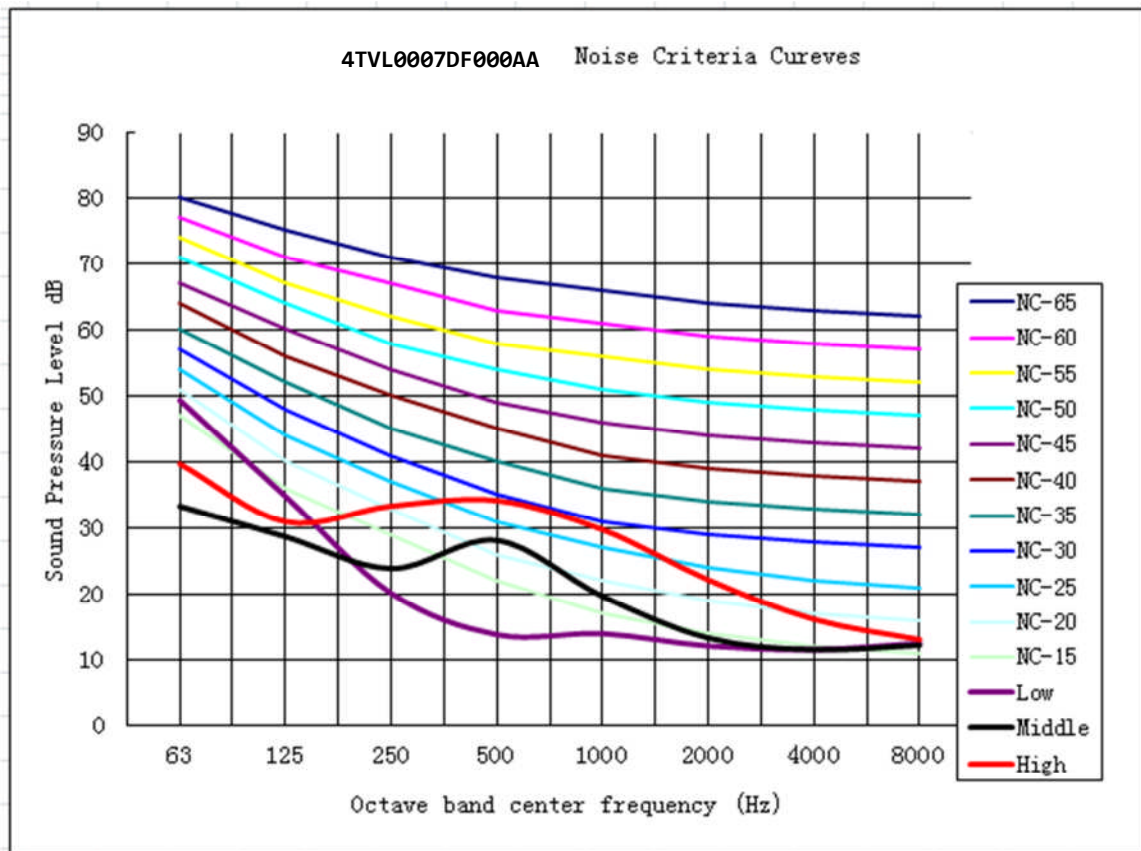
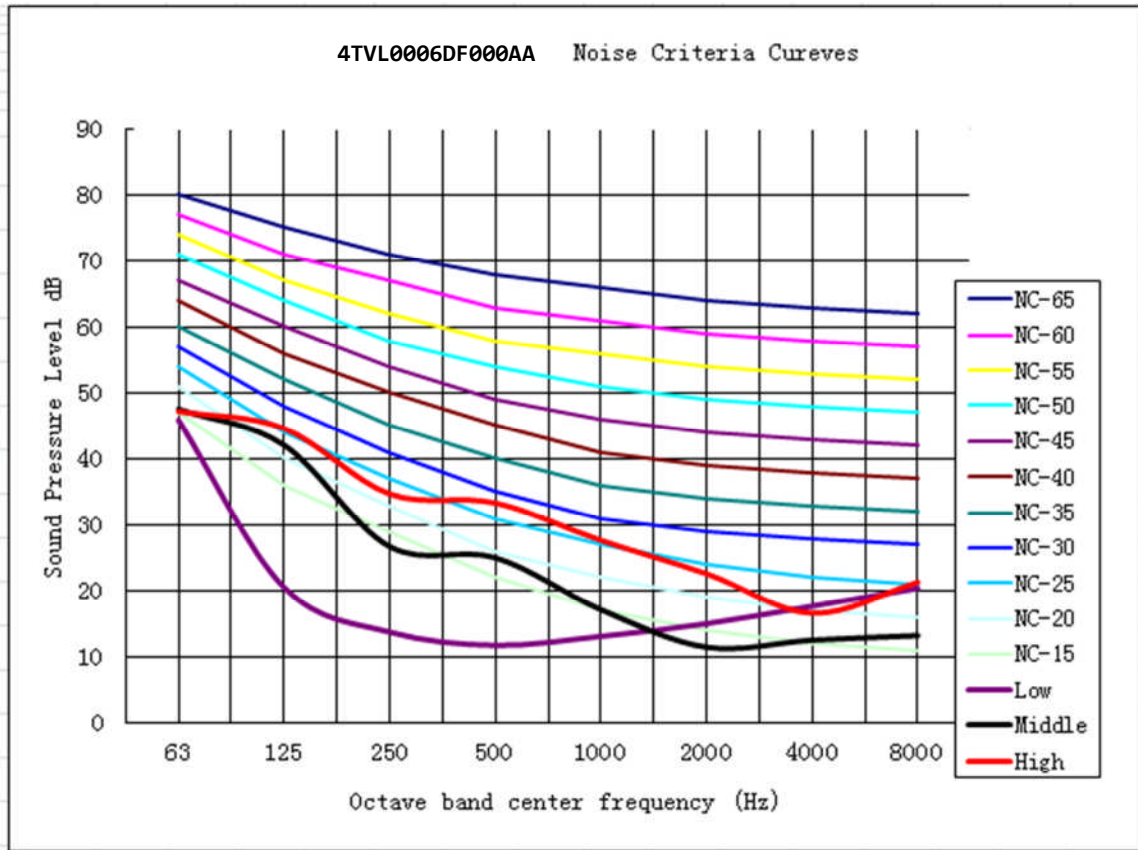


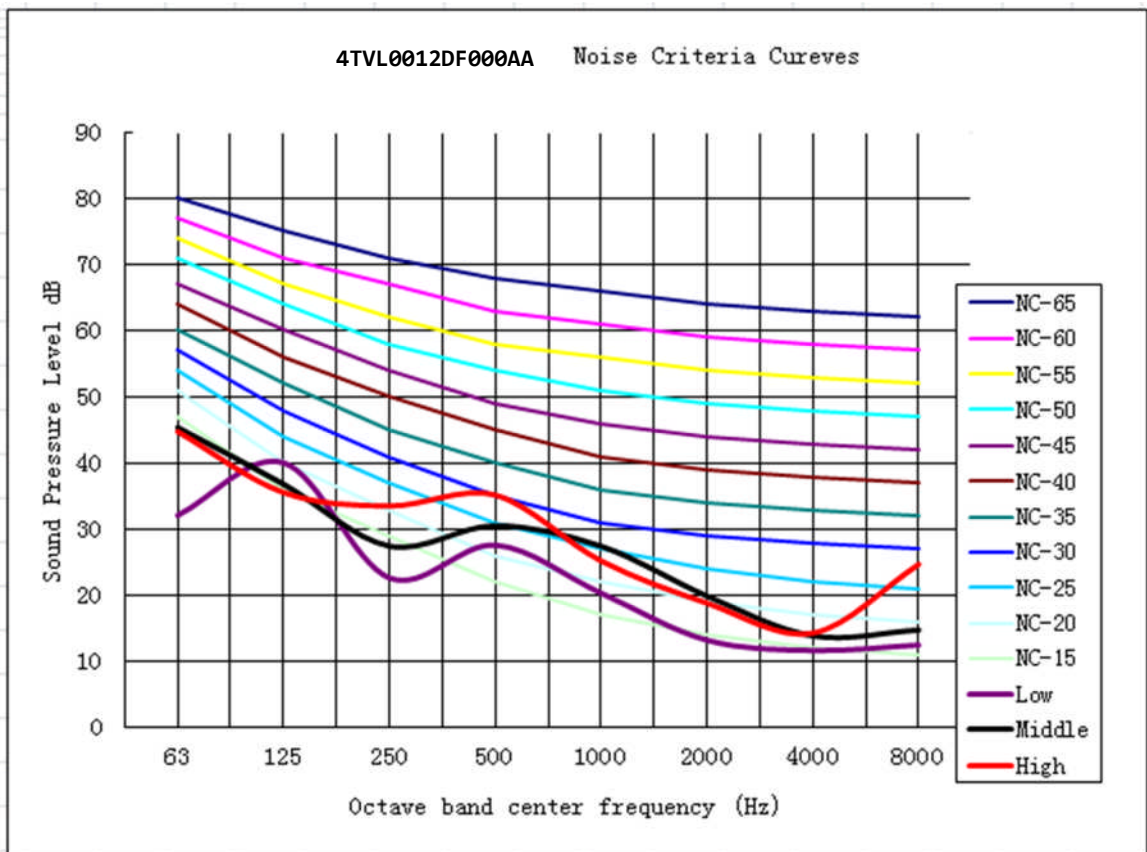
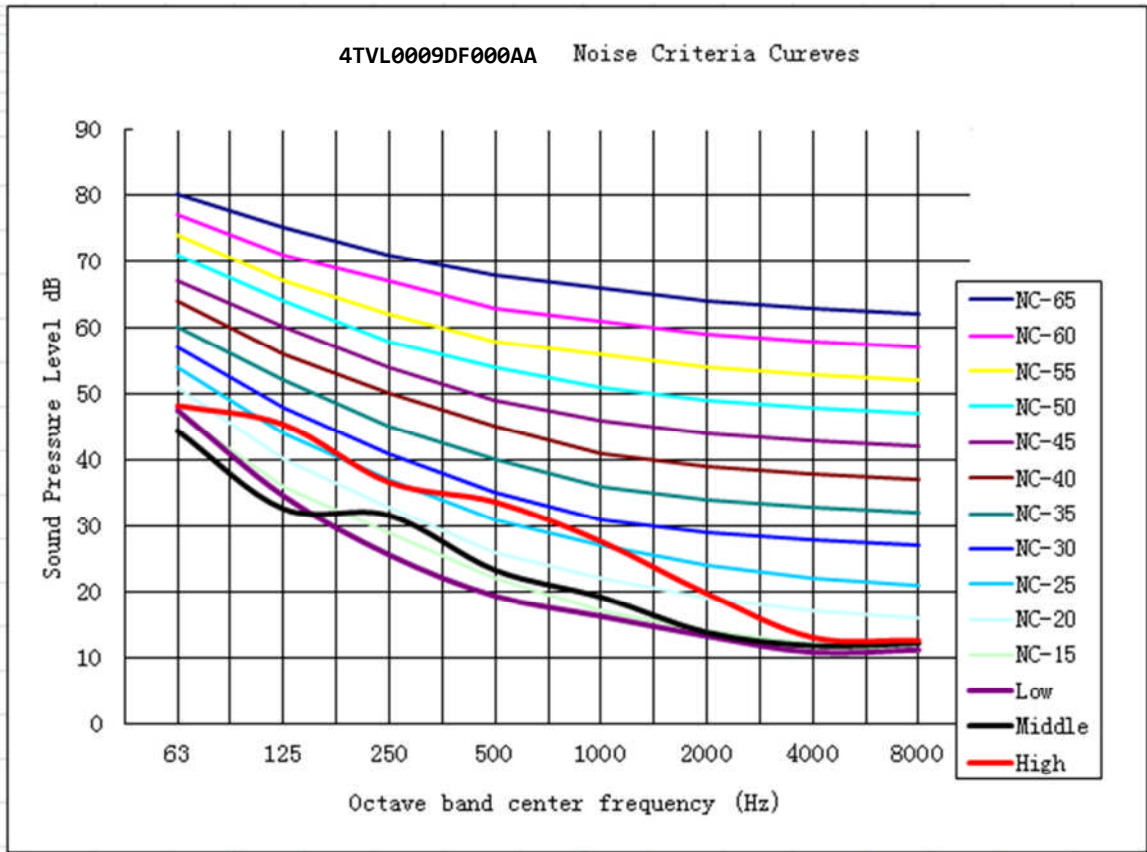
Note:

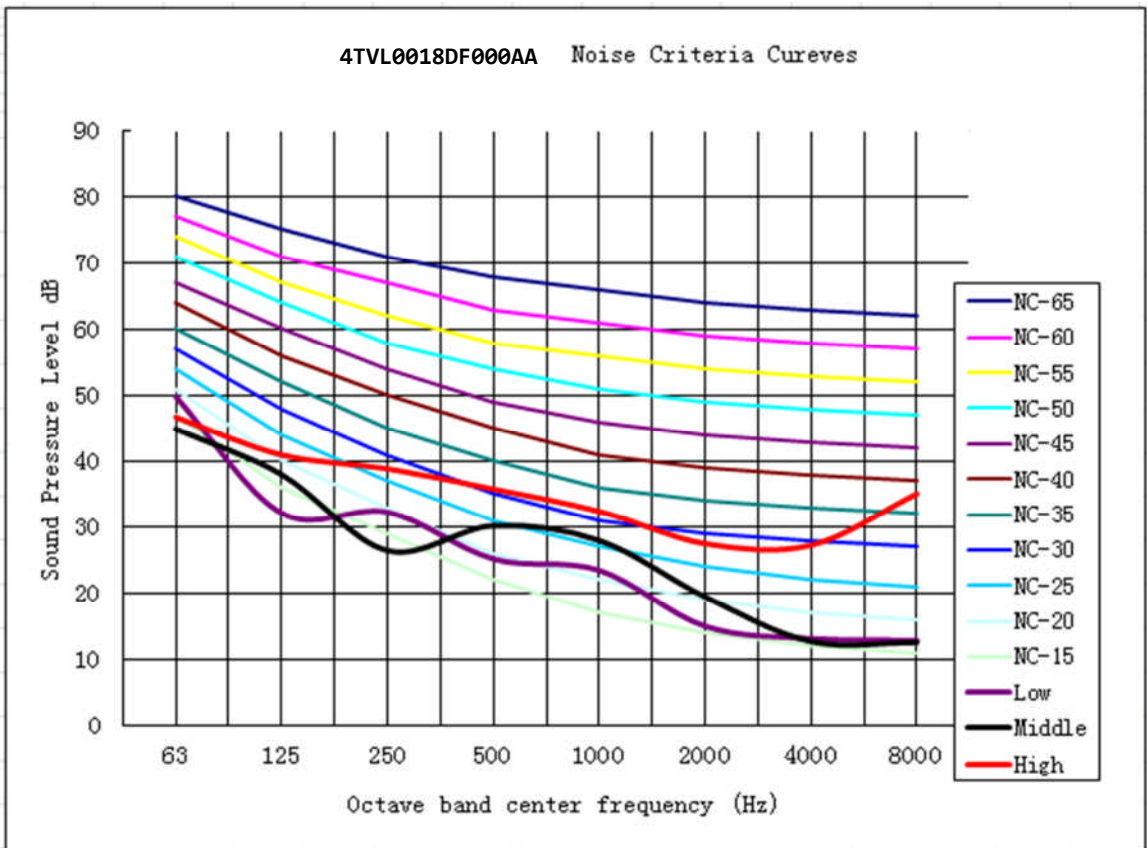
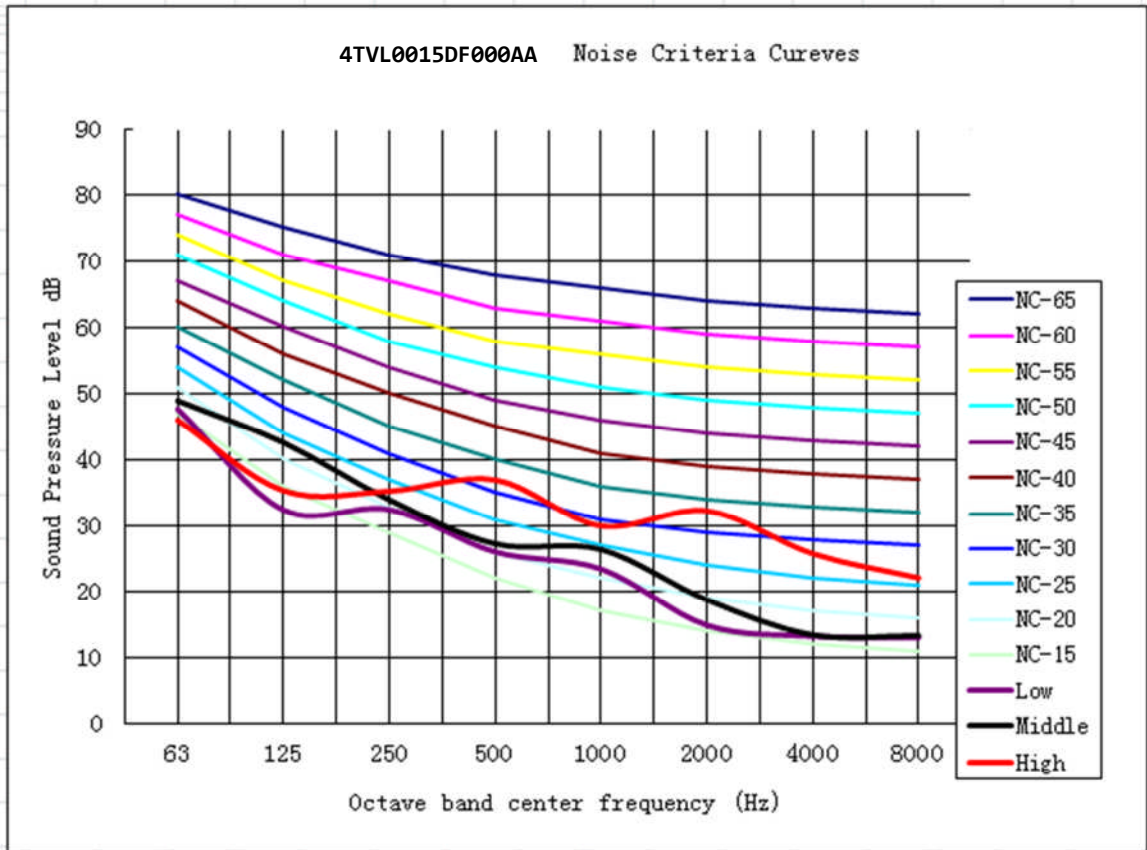
1. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
2. Semi-anechoic chamber conversion value, measured at a point which is 1.4m under the unit.

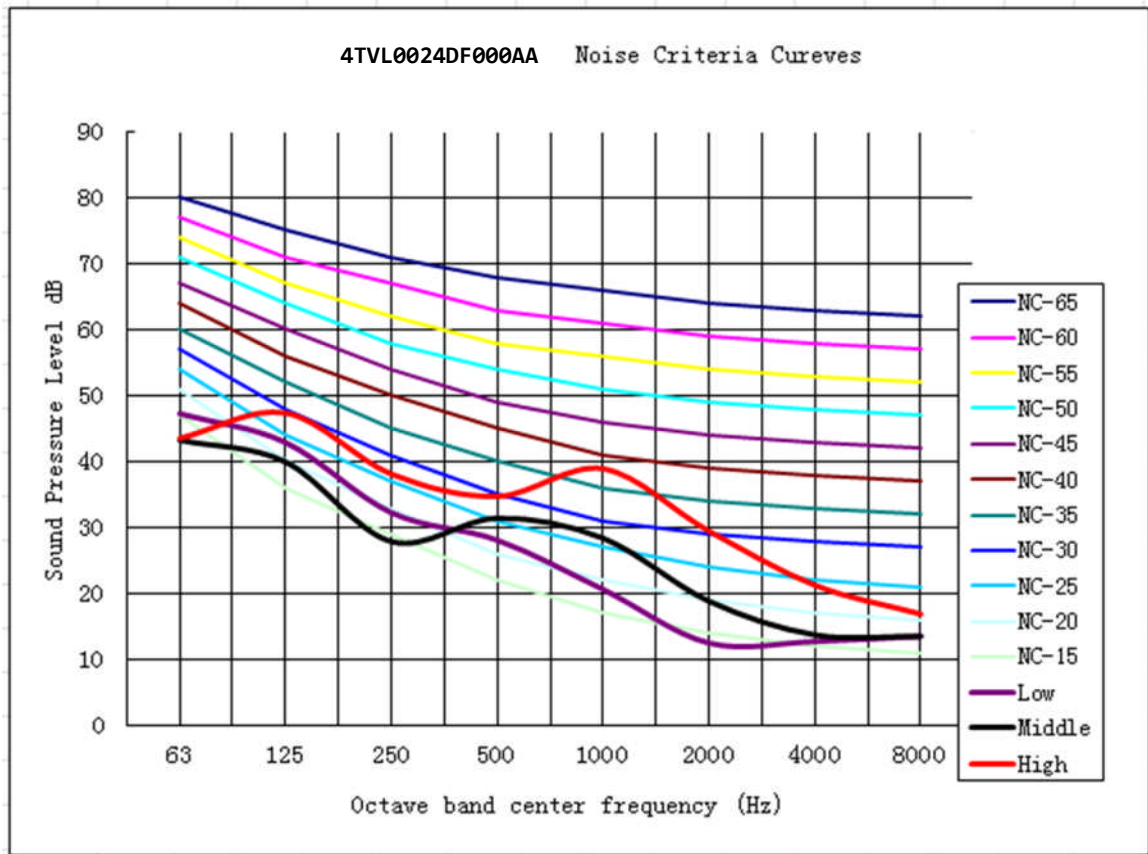
10.2 Test value

Model	Sound Levels value dB(A)		
	H	M	L
4TVL0006DF000AA	34	26	24
4TVL0007DF000AA	34	26	24
4TVL0009DF000AA	34	26	24
4TVL0012DF000AA	37	31	28
4TVL0015DF000AA	38	31	28
4TVL0018DF000AA	38	31	28
4TVL0024DF000AA	40	32	29






















11. Accessories

11.1 Standard accessories

Name of accessories	Quantity	Outline	Usage
Installation manual	1	(This manual)	/
Remote controller	1		Remote control the air-conditioner
Frame	1		/
7# alkaline battery	2		For remote controller
Remote controller manual	1		/
Pipe insulation material	2		Heat insulation
Water outlet joint	1		For drainage
Clasp	1		Chucking the joint which connect the drain hose and the outlet of indoor unit
Copper nut	1		Use for pipe connection of engineering installation
Signal receive and display box	1		Receive and display signal
Mounting screw (ST2.9×10-C-H)	2		For frame
Signal receive and display box installation manual	1		Display box installation manual
Gasket	8		Secure the Installation lifting lug
Network matching wire	1		Chucking the joint which connect the drain hose and the outlet of indoor unit