

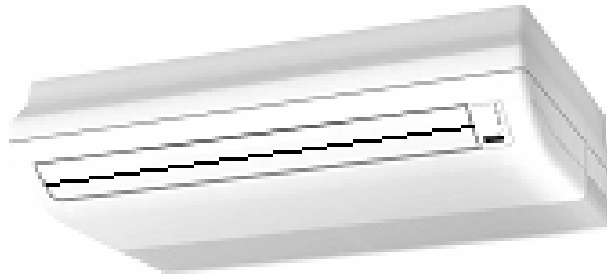
# Ceiling & floor type

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## 4.1 Features

### 4.1.1 Convenient installation

---The ceiling type can be easily installed into a corner of the ceiling even if the ceiling is very narrow



New Floor & ceiling type (R410a)

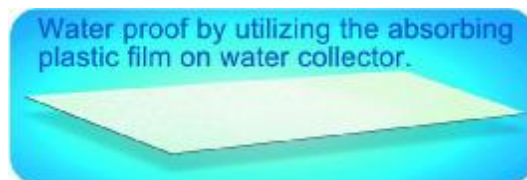
### 4.1.2 Double auto swing and wide angle air flow

---Air flow directional control minimizes the air resistance and produces wider air flow to vertical direction

---The range of horizontal air discharge is widened which secures wider air flow distribution to provide more comfortable air circulation no matter where the unit is set up



### 4.1.3 Water proof by utilizing the waterproof film on water collector



### 4.1.4 Low noise level plus compact size

---Shape of the blades has been improved to prevent noise caused by turbulence

### 4.1.5 Dual drain pipe design

---Freely select drain pipe out from left or right side of indoor unit

## 4.2 Specifications

Model			MDV-D36DL/N1-B	MDV-D45DL/N1-B	MDV-D56DL/N1-B	MDV-D71DL/N1-B
Power Supply		Ph-V-Hz	220-240V~,1Ph, 50Hz			
Nominal Capacity						
Cooling	Capacity	Btu/h	12000	16000	18000	24000
	Input	W	130	140	140	140
Heating	Capacity	Btu/h	13500	17500	21000	28000
	Input	W	130	140	140	140
Electric Parameter						
Max. input consumption		W	150	170	170	170
Running current		A	0.55	0.55	0.55	0.55
Starting current		A	4.7	5.4	5.4	5.4
Indoor Motor						
Model			YSK25-6L	YSK55-4L	YSK55-4L	YSK55-4L
Type			Centrifugal fan			
Brand			Weiling			
Input		W	120	120	120	120
Capacitor		uF	1.2uF/450V	2uF/450V	2.5uF/450V	2.5uF/450V
Speed (hi/lo)		r/min	750/660/590	1280/ 1190/1000		
Indoor air flow (Hi/Lo)		m <sup>3</sup> /h	650/570/500	800/600/500	800/600/500	800/600/500
Indoor noise level (Hi/Mid/Low)		dB(A)	43/41/38	43/41/38	43/41/38	43/41/38
Indoor Coil						
a. Number of rows			2	3		
b. Tube pitch(a)x row pitch(b)		mm	25.4×22			
c. Fin spacing		mm	1.8			
d. Fin type (code)			Hydrophilic aluminium			
e. Tube outside dia. and type		mm	Φ9.52 Inner groove tube			
f. Coil length x height x width		mm	804*254*44	804*254*66		
g. Number of circuits			5			
Technical Specification						
Indoor unit	Dimension (W*H*D)	mm	995*660*198			
	Packing (W*H*D)	mm	1089×744×296			
	Net/Gross weight	Kg	29/35			
Piping size	Liquid/ Gas side	mm(inch)	Φ6.35(1/4)/ Φ12.7(1/2)	Φ 9.53 (3/8) /φ16(5/8)		
Qty per 20'/40'/40'HQ		Pieces	128/270/300			

Model			MDV-D80DL/N1-B	MDV-D90DL/N1-B	MDV-D112DL/N1-B	MDV-D140DL/N1-B
Power Supply		Ph-V-Hz	220-240V~,1Ph, 50Hz			
Nominal Capacity						
Cooling	Capacity	Btu/h	27000	30000	40000	48000
	Input	W	155	155	240	240
Heating	Capacity	Btu/h	32000	36000	45000	53000
	Input	W	155	155	240	240
Electric Parameter						
Max. input consumption		W	200	200	280	280
Running current		A	0.60	0.60	0.83	0.83
Starting current		A	6.2	6.2	7.7	7.7
Indoor Motor						
Model			YSK80-4A		YSK59-4D	
Type			Centrifugal fan			
Brand			Weiling			
Input		W	130	130	182	182
Capacitor		uF	3.5uF/450V	3.5 uF /450v	2.5 uF /450v	2.5 uF /450v
Speed (hi/lo)		r/min	1310/1200/1000	1310/1200/1000	820/695/620	820/695/620
Indoor air flow (Hi/Lo)		m <sup>3</sup> /h	1400/1200/1000	1400/1200/1000	2000/1800/1600	2000/1800/1600
Indoor noise level (Hi/Mid/Low)		dB(A)	45/43/40	45/43/40	47/45/42	47/45/42
Indoor Coil						
a. Number of rows			3			
b. Tube pitch(a)x row pitch(b)		mm	25.4×22			
c. Fin spacing		mm	1.7			
d. Fin type (code)			Hydrophilic aluminium			
e. Tube outside dia. and type		mm	Φ9.53 Inner groove tube			
f. Coil length x height x width		mm	905*203*66	905*203*66	1150x254x66	1150x254x66
g. Number of circuits			5			
Technical Specification						
Indoor unit	Dimension (W*H*D)	mm	1285×660×198	1285×660×198	1670×680×240	1670×680×240
	Packing (W*H*D)	mm	1379×744×296	1379×744×296	1764×760×329	1764×760×329
	Net/Gross weight	Kg	37/42		54/61	
Piping size	Liquid/ Gas side	mm(inch)	φ 9.53 (3/8') /φ16(5/8)			
Qty per 20'/40'/40'HQ		Pieces	128/270/300	99/203/228	99/203/228	99/203/228

**Notes:** 1. Nominal cooling capacities are based on the following conditions:

indoor temperature : 27°CDB,19°CWB,outdoor temperature:35°CDB,equivalent ref.Piping: 8m(horizontal)

2. Nominal heating capacities are based on the following conditions:

indoor temperature: 20°CDB,outdoor temperature: 7°CDB,6°CWB,equivalent ref.Piping: 8m(horizontal)

3. Capacities are net, not including a deduction for cooling (an addition for heating) for indoor fan motor heat

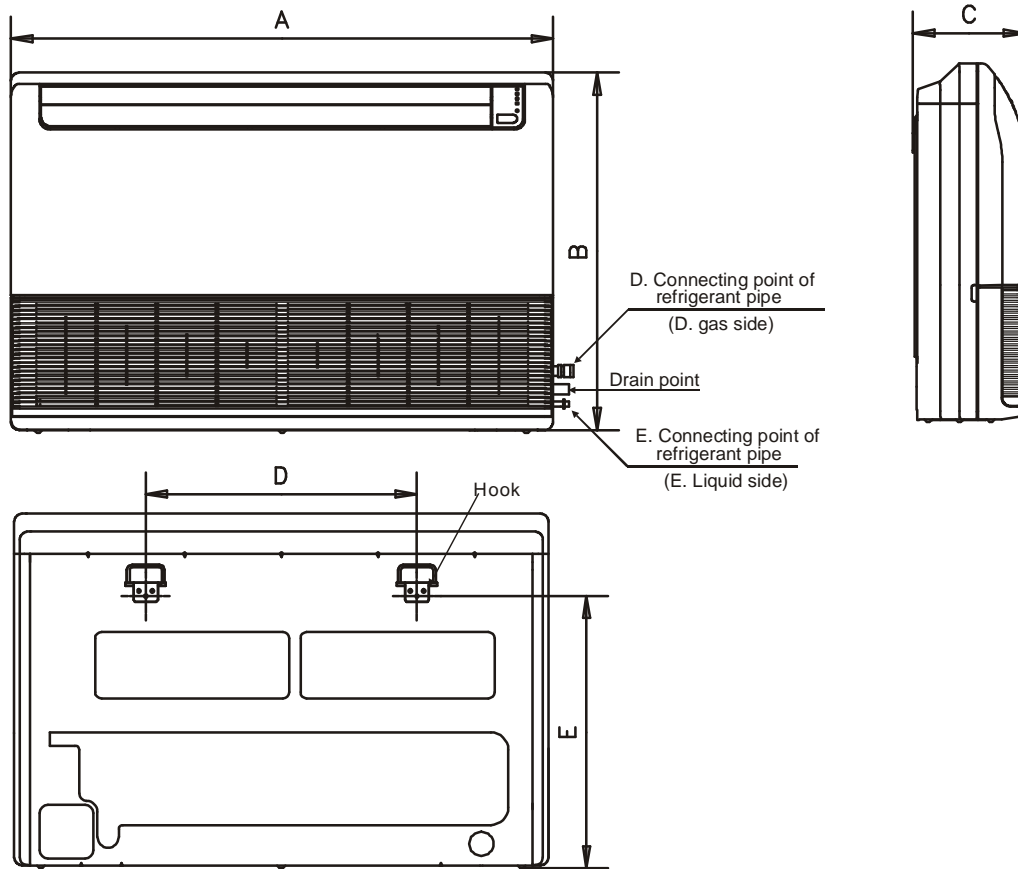




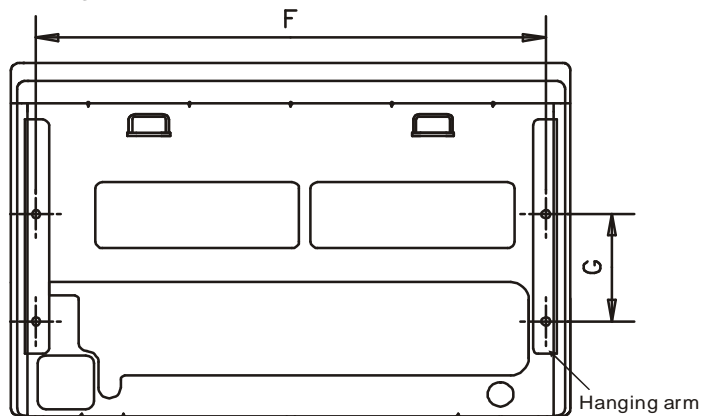
**4.3 Dimension**

MDV-D36DL/N1-B    MDV-D45DL/N1-B    MDV-D56DL/N1-B    MDV-D71DL/N1-B  
 MDV-D80DL/N1-B    MDV-D90DL/N1-B    MDV-D112DL/N1-B    MDV-D140DL/N1-B

Wall mounting installation



Ceiling installation

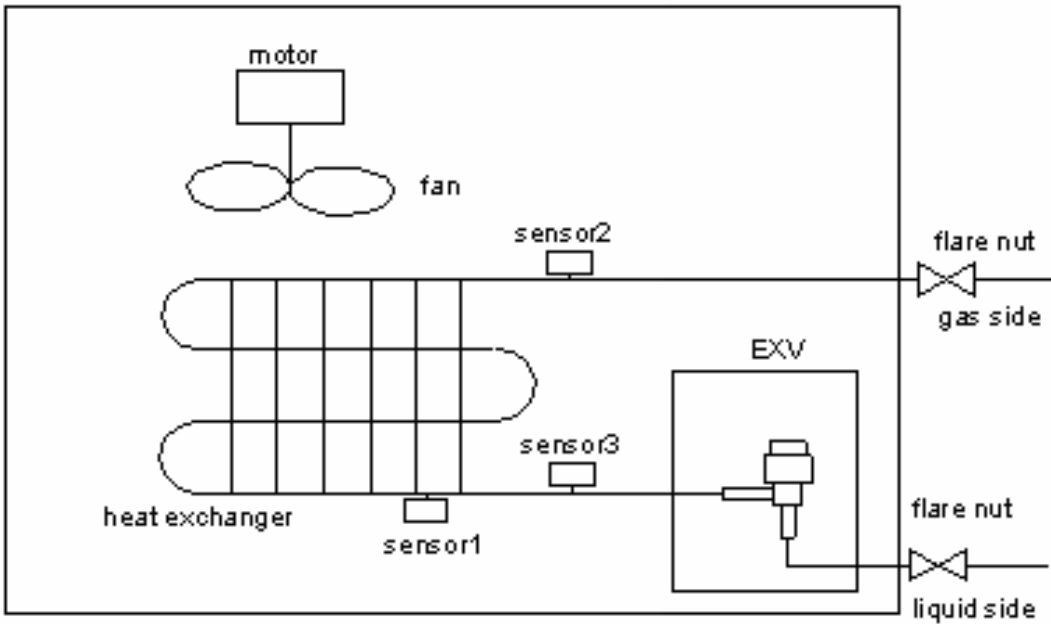


Unit:mm

Capacity (KW)	A	B	C	D	E	F	G
3.6~7.1	990	660	206	505	506	907	200
8.0~9.0	1280	660	206	795	506	1195	200
11.2~14.0	1670	680	244	1070	450	1542	200

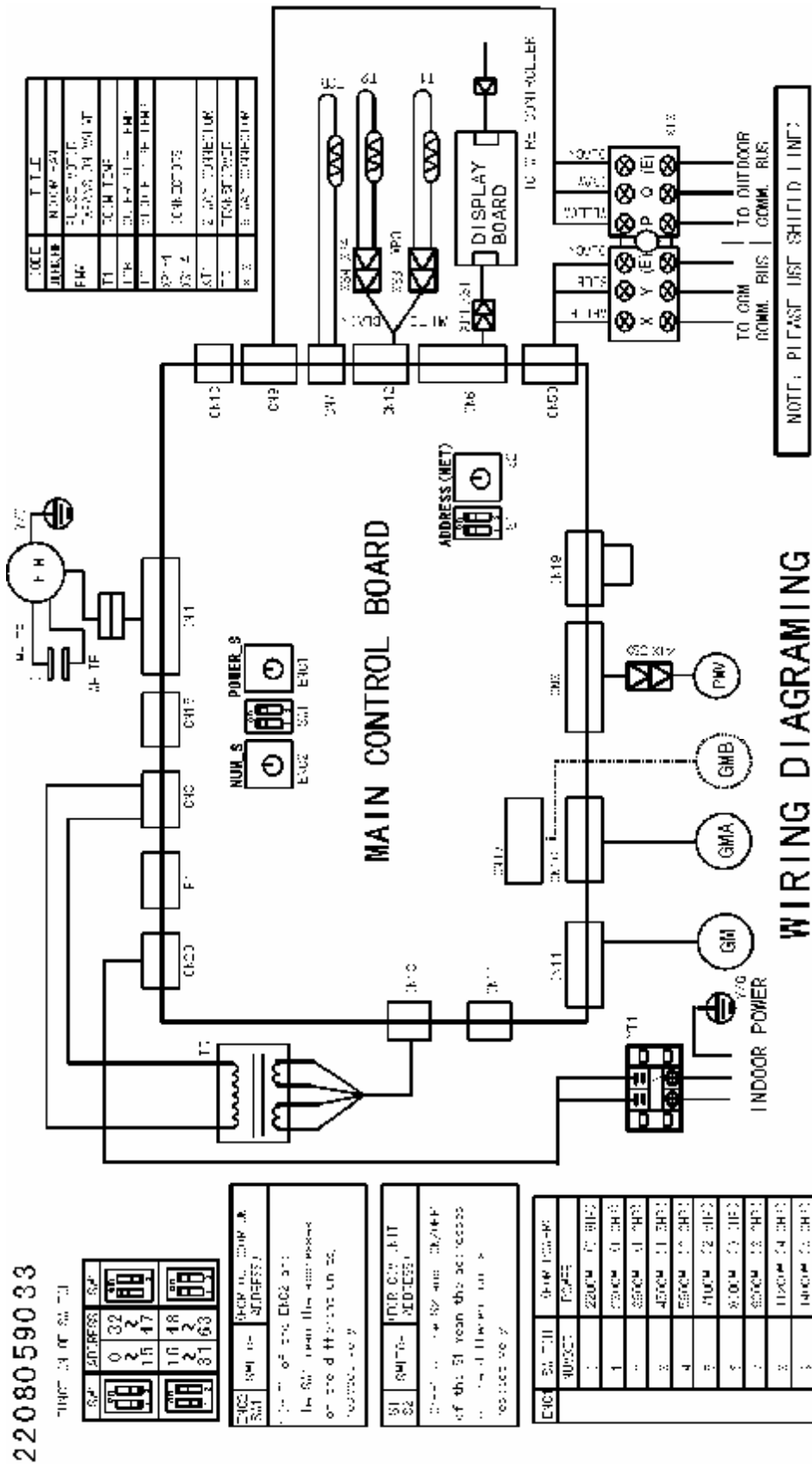
**4.4 Piping diagrams**

MDV-D36DL/N1-B MDV-D45DL/N1-B MDV-D56DL/N1-B MDV-D71DL/N1-B  
 MDV-D80DL/N1-B MDV-D90DL/N1-B MDV-D112DL/N1-B MDV-D140DL/N1-B



**4.5 Wiring diagrams**

MDV-D36DL/N1-B MDV-D45DL/N1-B MDV-D56DL/N1-B MDV-D71DL/N1-B  
 MDV-D80DL/N1-B MDV-D90DL/N1-B MDV-D112DL/N1-B MDV-D140DL/N1-B



**4.6 Capacity table**

**4.6.1 Cooling**

**TC: total capacity SHC: sensible capacity**

Indoor Unit size (kw)	Outdoor temperature (°c ,DB)	Indoor temperature (°c,WB)													
		14		16		18		19		20		22		24	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
3.6	10	2.8	2.5	3.2	2.7	3.6	2.9	3.8	3.0	4.0	3.1	4.4	3.2	4.8	3.3
	12	2.8	2.5	3.2	2.7	3.6	2.9	3.8	3.0	4.0	3.1	4.4	3.2	4.8	3.3
	14	2.8	2.5	3.2	2.7	3.6	2.9	3.8	3.0	4.0	3.1	4.4	3.2	4.8	3.3
	16	2.8	2.5	3.2	2.7	3.6	2.9	3.8	3.0	4.0	3.1	4.4	3.2	4.8	3.3
	18	2.8	2.5	3.2	2.7	3.6	2.9	3.8	3.0	4.0	3.1	4.4	3.2	4.8	3.3
	20	2.8	2.5	3.2	2.7	3.6	2.9	3.8	3.0	4.0	3.1	4.4	3.2	4.8	3.3
	21	2.8	2.5	3.2	2.7	3.6	2.9	3.8	3.0	4.0	3.1	4.4	3.2	4.8	3.3
	23	2.8	2.5	3.2	2.7	3.6	2.9	3.8	3.0	4.0	3.1	4.4	3.2	4.8	3.3
	25	2.8	2.5	3.2	2.7	3.6	2.9	3.8	3.0	4.0	3.1	4.4	3.2	4.8	3.3
	27	2.8	2.5	3.2	2.7	3.6	2.9	3.8	3.0	4.0	3.1	4.4	3.2	4.8	3.3
	29	2.8	2.5	3.2	2.7	3.6	2.9	3.8	3.0	4.0	3.1	4.4	3.2	4.8	3.3
	31	2.7	2.4	3.1	2.6	3.5	2.8	3.7	2.9	3.9	3.0	4.3	3.1	4.7	3.2
	33	2.7	2.4	3.1	2.6	3.5	2.8	3.7	2.9	3.9	3.0	4.3	3.1	4.7	3.2
	35	2.7	2.4	3.1	2.6	3.5	2.8	<b>3.6</b>	2.9	3.9	3.0	4.3	3.1	4.7	3.2
	37	2.7	2.4	3.1	2.6	3.5	2.8	3.6	2.9	3.9	3.0	4.3	3.1	4.7	3.2
39	2.7	2.4	3.1	2.6	3.5	2.8	3.6	2.9	3.9	3.0	4.3	3.1	4.7	3.2	
4.5	10	3.3	3.0	3.9	3.3	4.4	3.7	4.8	3.8	5.1	3.9	5.6	4.0	6.2	4.1
	12	3.3	3.0	3.9	3.3	4.4	3.7	4.8	3.8	5.1	3.9	5.6	4.0	6.2	4.1
	14	3.3	3.0	3.9	3.3	4.4	3.7	4.8	3.8	5.1	3.9	5.6	4.0	6.2	4.1
	16	3.3	3.0	3.9	3.3	4.4	3.7	4.8	3.8	5.1	3.9	5.6	4.0	6.2	4.1
	18	3.3	3.0	3.9	3.3	4.4	3.7	4.8	3.8	5.1	3.9	5.6	4.0	6.2	4.1
	20	3.3	3.0	3.9	3.3	4.4	3.7	4.8	3.8	5.1	3.9	5.6	4.0	6.2	4.1
	21	3.2	2.9	3.8	3.2	4.3	3.6	4.7	3.7	5.0	3.8	5.5	4.0	6.1	4.1
	23	3.2	2.9	3.8	3.2	4.3	3.6	4.7	3.7	5.0	3.8	5.5	4.0	6.1	4.1
	25	3.2	2.9	3.8	3.2	4.3	3.6	4.7	3.7	5.0	3.8	5.5	4.0	6.1	4.1
	27	3.2	2.9	3.8	3.2	4.3	3.6	4.7	3.7	5.0	3.8	5.5	4.0	6.1	4.1
	29	3.2	2.9	3.8	3.2	4.3	3.6	4.7	3.7	5.0	3.8	5.5	4.0	6.1	4.1
	31	3.2	2.9	3.8	3.2	4.3	3.6	4.7	3.7	5.0	3.8	5.5	4.0	6.1	4.1
	33	3.2	2.9	3.8	3.2	4.3	3.6	4.7	3.7	5.0	3.8	5.5	4.0	6.1	4.1
	35	3.1	2.8	3.7	3.1	4.2	3.5	<b>4.5</b>	3.6	4.9	3.7	5.4	3.9	6.0	4.0
	37	3.1	2.8	3.7	3.1	4.2	3.5	4.5	3.6	4.9	3.7	5.4	3.9	6.0	4.0
39	3.1	2.8	3.7	3.1	4.2	3.5	4.5	3.6	4.8	3.7	5.3	3.8	5.9	3.9	

TC: total capacity SHC: sensible capacity

Indoor Unit size (kw)	Outdoor temperature (°c ,DB)	Indoor temperature (°c,WB)													
		14		16		18		19		20		22		24	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
5.6	10	4.3	3.7	4.9	3.9	5.5	4.2	5.8	4.3	6.1	4.4	6.7	4.5	7.3	4.6
	12	4.3	3.7	4.9	3.9	5.5	4.2	5.8	4.3	6.1	4.4	6.7	4.5	7.3	4.6
	14	4.3	3.7	4.9	3.9	5.5	4.2	5.8	4.3	6.1	4.4	6.7	4.5	7.3	4.6
	16	4.3	3.7	4.9	3.9	5.5	4.2	5.8	4.3	6.1	4.4	6.7	4.5	7.3	4.6
	18	4.3	3.7	4.9	3.9	5.5	4.2	5.8	4.3	6.1	4.4	6.7	4.5	7.3	4.6
	20	4.3	3.7	4.9	3.9	5.5	4.2	5.8	4.3	6.1	4.4	6.7	4.5	7.3	4.6
	21	4.3	3.7	4.9	3.9	5.5	4.2	5.8	4.3	6.1	4.4	6.7	4.5	7.3	4.6
	23	4.3	3.7	4.9	3.9	5.5	4.2	5.8	4.3	6.1	4.4	6.7	4.5	7.3	4.6
	25	4.3	3.7	4.9	3.9	5.5	4.2	5.8	4.3	6.1	4.4	6.7	4.5	7.3	4.6
	27	4.3	3.7	4.9	3.9	5.5	4.2	5.8	4.3	6.1	4.4	6.7	4.5	7.3	4.6
	29	4.3	3.7	4.9	3.9	5.5	4.2	5.8	4.3	6.1	4.4	6.7	4.5	7.3	4.6
	31	4.3	3.7	4.9	3.9	5.5	4.2	5.8	4.3	6.1	4.4	6.7	4.5	7.3	4.6
	33	4.2	3.6	4.8	3.8	5.4	4.1	5.7	4.2	6.0	4.3	6.6	4.4	7.2	4.5
	35	4.2	3.6	4.8	3.8	5.4	4.1	<b>5.6</b>	4.2	6.0	4.3	6.6	4.4	7.2	4.5
	37	4.2	3.6	4.8	3.8	5.4	4.1	5.6	4.2	6.0	4.3	6.6	4.4	7.2	4.5
39	4.2	3.6	4.8	3.8	5.4	4.1	5.6	4.2	6.0	4.3	6.6	4.4	7.2	4.5	
7.1	10	5.3	4.7	6.1	5.1	6.9	5.4	7.3	5.6	7.7	5.8	8.5	6.0	9.3	6.2
	12	5.3	4.7	6.1	5.1	6.9	5.4	7.3	5.6	7.7	5.8	8.5	6.0	9.3	6.2
	14	5.3	4.7	6.1	5.1	6.9	5.4	7.3	5.6	7.7	5.8	8.5	6.0	9.3	6.2
	16	5.3	4.7	6.1	5.1	6.9	5.4	7.3	5.6	7.7	5.8	8.5	6.0	9.3	6.2
	18	5.3	4.7	6.1	5.1	6.9	5.4	7.3	5.6	7.7	5.8	8.5	6.0	9.3	6.2
	20	5.3	4.7	6.1	5.1	6.9	5.4	7.3	5.6	7.7	5.8	8.5	6.0	9.3	6.2
	21	5.3	4.7	6.1	5.1	6.9	5.4	7.3	5.6	7.7	5.8	8.5	6.0	9.3	6.2
	23	5.3	4.7	6.1	5.1	6.9	5.4	7.3	5.6	7.7	5.8	8.5	6.0	9.3	6.2
	25	5.3	4.7	6.1	5.1	6.9	5.4	7.3	5.6	7.7	5.8	8.5	6.0	9.3	6.2
	27	5.3	4.7	6.1	5.1	6.9	5.4	7.3	5.6	7.7	5.8	8.5	6.0	9.3	6.2
	29	5.3	4.7	6.1	5.1	6.9	5.4	7.3	5.6	7.7	5.8	8.5	6.0	9.3	6.2
	31	5.2	4.6	6.0	5.0	6.8	5.3	7.2	5.5	7.6	5.7	8.4	5.9	9.2	6.1
	33	5.2	4.6	6.0	5.0	6.8	5.3	7.2	5.5	7.6	5.7	8.4	5.9	9.2	6.1
	35	5.2	4.6	6.0	5.0	6.8	5.3	<b>7.1</b>	5.5	7.6	5.7	8.4	5.9	9.2	6.1
	37	5.2	4.6	6.0	5.0	6.8	5.3	7.1	5.5	7.6	5.7	8.4	5.9	9.2	6.1
39	5.2	4.6	6.0	5.0	6.8	5.3	7.1	5.5	7.6	5.7	8.4	5.9	9.2	6.1	

TC: total capacity SHC: sensible capacity

Indoor Unit size (kw)	Outdoor temperature (°c ,DB)	Indoor temperature (°c,WB)													
		14		16		18		19		20		22		24	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
8.0	10	5.8	5.4	6.8	5.8	7.8	6.0	8.4	6.2	9.0	6.4	10.0	6.6	11.0	6.8
	12	5.8	5.4	6.8	5.8	7.8	6.0	8.4	6.2	9.0	6.4	10.0	6.6	11.0	6.8
	14	5.8	5.4	6.8	5.8	7.8	6.0	8.4	6.2	9.0	6.4	10.0	6.6	11.0	6.8
	16	5.8	5.4	6.8	5.8	7.8	6.0	8.4	6.2	9.0	6.4	10.0	6.6	11.0	6.8
	18	5.8	5.4	6.8	5.8	7.8	6.0	8.4	6.2	9.0	6.4	10.0	6.6	11.0	6.8
	20	5.8	5.4	6.8	5.8	7.8	6.0	8.4	6.2	9.0	6.4	10.0	6.6	11.0	6.8
	21	5.8	5.4	6.8	5.8	7.8	6.0	8.4	6.2	9.0	6.4	10.0	6.6	11.0	6.8
	23	5.8	5.4	6.8	5.8	7.8	6.0	8.4	6.2	9.0	6.4	10.0	6.6	11.0	6.8
	25	5.8	5.4	6.8	5.8	7.8	6.0	8.4	6.2	9.0	6.4	10.0	6.6	11.0	6.8
	27	5.8	5.4	6.8	5.8	7.8	6.0	8.4	6.2	9.0	6.4	10.0	6.6	11.0	6.8
	29	5.8	5.4	6.8	5.8	7.8	6.0	8.4	6.2	9.0	6.4	10.0	6.6	11.0	6.8
	31	5.8	5.4	6.8	5.8	7.8	6.0	8.4	6.2	9.0	6.4	10.0	6.6	11.0	6.8
	33	5.7	5.3	6.7	5.7	7.7	5.9	8.2	6.0	8.8	6.2	9.8	6.4	10.8	6.6
	35	5.7	5.3	6.7	5.7	7.7	5.9	<b>8.0</b>	6.0	8.8	6.2	9.8	6.4	10.8	6.6
	37	5.7	5.3	6.7	5.7	7.7	5.9	8.0	6.0	8.8	6.2	9.8	6.4	10.8	6.6
39	5.7	5.3	6.7	5.7	7.7	5.9	8.0	6.0	8.8	6.2	9.8	6.4	10.8	6.6	
9.0	10	6.2	5.8	7.4	6.4	8.6	6.8	9.2	7.1	9.8	7.3	11.0	7.4	12.0	7.5
	12	6.2	5.8	7.4	6.4	8.6	6.8	9.2	7.1	9.8	7.3	11.0	7.4	12.0	7.5
	14	6.2	5.8	7.4	6.4	8.6	6.8	9.2	7.1	9.8	7.3	11.0	7.4	12.0	7.5
	16	6.2	5.8	7.4	6.4	8.6	6.8	9.2	7.1	9.8	7.3	11.0	7.4	12.0	7.5
	18	6.2	5.8	7.4	6.4	8.6	6.8	9.2	7.1	9.8	7.3	11.0	7.4	12.0	7.5
	20	6.2	5.8	7.4	6.4	8.6	6.8	9.2	7.1	9.8	7.3	11.0	7.4	12.0	7.5
	21	6.2	5.8	7.4	6.4	8.6	6.8	9.2	7.1	9.8	7.3	11.0	7.4	12.0	7.5
	23	6.2	5.8	7.4	6.4	8.6	6.8	9.2	7.1	9.8	7.3	11.0	7.4	12.0	7.5
	25	6.2	5.8	7.4	6.4	8.6	6.8	9.2	7.1	9.8	7.3	11.0	7.4	12.0	7.5
	27	6.2	5.8	7.4	6.4	8.6	6.8	9.2	7.1	9.8	7.3	11.0	7.4	12.0	7.5
	29	6.2	5.8	7.4	6.4	8.6	6.8	9.2	7.1	9.8	7.3	11.0	7.4	12.0	7.5
	31	6.2	5.8	7.4	6.4	8.6	6.8	9.2	7.1	9.8	7.3	11.0	7.4	12.0	7.5
	33	6.0	5.6	7.2	6.2	8.4	6.6	9.0	6.9	9.6	7.1	10.8	7.2	11.8	7.3
	35	6.0	5.6	7.2	6.2	8.4	6.6	<b>9.0</b>	6.9	9.6	7.1	10.8	7.2	11.8	7.3
	37	6.0	5.6	7.2	6.2	8.4	6.6	9.0	6.9	9.6	7.1	10.8	7.2	11.8	7.3
39	6.0	5.6	7.2	6.2	8.4	6.6	9.0	6.9	9.6	7.1	10.8	7.2	11.8	7.3	

TC: total capacity SHC: sensible capacity

Indoor Unit size (kw)	Outdoor temperature (°c ,DB)	Indoor temperature (°c,WB)													
		14		16		18		19		20		22		24	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
11.2	10	8.4	7.4	9.6	8.0	10.8	8.8	11.4	9.0	12.0	9.2	13.2	9.4	14.6	9.6
	12	8.4	7.4	9.6	8.0	10.8	8.8	11.4	9.0	12.0	9.2	13.2	9.4	14.6	9.6
	14	8.4	7.4	9.6	8.0	10.8	8.8	11.4	9.0	12.0	9.2	13.2	9.4	14.6	9.6
	16	8.4	7.4	9.6	8.0	10.8	8.8	11.4	9.0	12.0	9.2	13.2	9.4	14.6	9.6
	18	8.4	7.4	9.6	8.0	10.8	8.8	11.4	9.0	12.0	9.2	13.2	9.4	14.6	9.6
	20	8.4	7.4	9.6	8.0	10.8	8.8	11.4	9.0	12.0	9.2	13.2	9.4	14.6	9.6
	21	8.4	7.4	9.6	8.0	10.8	8.8	11.4	9.0	12.0	9.2	13.2	9.4	14.6	9.6
	23	8.4	7.4	9.6	8.0	10.8	8.8	11.4	9.0	12.0	9.2	13.2	9.4	14.6	9.6
	25	8.4	7.4	9.6	8.0	10.8	8.8	11.4	9.0	12.0	9.2	13.2	9.4	14.6	9.6
	27	8.4	7.4	9.6	8.0	10.8	8.8	11.4	9.0	12.0	9.2	13.2	9.4	14.6	9.6
	29	8.4	7.4	9.6	8.0	10.8	8.8	11.4	9.0	12.0	9.2	13.2	9.4	14.6	9.6
	31	8.3	7.3	9.5	7.9	10.7	8.7	11.3	8.9	11.9	9.1	13.1	9.3	14.5	9.5
	33	8.3	7.3	9.5	7.9	10.7	8.7	11.3	8.9	11.9	9.1	13.1	9.3	14.5	9.5
	35	8.3	7.3	9.5	7.9	10.7	8.7	<b>11.2</b>	8.9	11.9	9.1	13.1	9.3	14.5	9.5
	37	8.2	7.2	9.4	7.8	10.6	8.6	11.2	8.8	11.8	9.0	13.0	9.2	14.4	9.4
39	8.2	7.2	9.4	7.8	10.6	8.6	11.2	8.8	11.8	9.0	13.0	9.2	14.4	9.4	

4.6.2 Heating

TC: total capacity

Indoor Unit size (kw)	Outdoor temperature		Indoor temperature (°c,)DB					
			14	16	18	20	22	24
	DB	WB	TC	TC	TC	TC	TC	TC
3.6	-15.0	-15.8	2.6	2.6	2.6	2.6	2.5	2.4
	-14.0	-14.8	2.6	2.6	2.6	2.6	2.6	2.6
	-12.0	-12.8	2.8	2.8	2.8	2.7	2.7	2.7
	-10.0	-10.8	3.0	3.0	3.0	2.7	2.7	2.7
	-8.0	-8.8	3.2	3.2	3.2	2.8	2.8	2.8
	-6.0	-7.0	3.4	3.4	3.4	3.0	3.0	3.0
	-4.0	-5.0	3.6	3.6	3.6	3.2	3.2	3.2
	-2.0	-3.0	4.0	4.0	3.7	3.4	3.4	3.4
	0.0	-1.0	4.2	4.2	3.9	3.6	3.6	3.6
	3.0	2.0	4.4	4.4	4.1	3.8	3.8	3.8
	5.0	4.0	4.6	4.6	4.3	4.0	3.7	3.4
	7.0	6.0	4.6	4.6	4.3	<b>4.0</b>	3.7	3.4
	9.0	8.0	4.6	4.6	4.3	4.0	3.7	3.4
	11	10.0	4.6	4.6	4.3	4.0	3.7	3.4
	13	12.0	4.6	4.6	4.3	4.0	3.7	3.4
15	14.0	4.6	4.6	4.3	4.0	3.7	3.4	
4.5	-15.0	-15.8	3.2	3.2	3.1	3.1	3.0	3.0
	-14.0	-14.8	3.5	3.5	3.5	3.2	3.2	3.2
	-12.0	-12.8	3.7	3.7	3.7	3.4	3.4	3.4
	-10.0	-10.8	4.0	4.0	4.0	3.6	3.6	3.6
	-8.0	-8.8	4.3	4.3	4.3	3.8	3.8	3.8
	-6.0	-7.0	4.6	4.6	4.6	4.0	4.0	4.0
	-4.0	-5.0	5.0	5.0	5.0	4.2	4.2	4.0
	-2.0	-3.0	5.3	5.3	5.3	4.4	4.4	4.0
	0.0	-1.0	5.5	5.5	5.3	4.6	4.4	4.2
	3.0	2.0	5.8	5.8	5.4	4.8	4.6	4.2
	5.0	4.0	5.8	5.8	5.4	5.0	4.6	4.2
	7.0	6.0	5.8	5.8	5.4	<b>5.0</b>	4.6	4.2
	9.0	8.0	5.8	5.8	5.4	5.0	4.6	4.2
	11	10.0	5.8	5.8	5.4	5.0	4.6	4.2
	13	12.0	5.8	5.8	5.4	5.0	4.6	4.2
15	14.0	5.8	5.8	5.4	5.0	4.6	4.2	

TC: total capacity

Indoor Unit size (kw)	Outdoor temperature		Indoor temperature (°c,)DB					
			14	16	18	20	22	24
	DB	WB	TC	TC	TC	TC	TC	TC
			kW	kW	kW	kW	KW	Kw
5.6	-15.0	-15.8	4.0	4.0	4.0	4.0	3.8	3.8
	-14.0	-14.8	4.2	4.2	4.2	4.2	4.2	4.2
	-12.0	-12.8	4.4	4.4	4.4	4.4	4.4	4.4
	-10.0	-10.8	4.6	4.6	4.6	4.6	4.6	4.6
	-8.0	-8.8	4.8	4.8	4.8	4.8	4.8	4.8
	-6.0	-7.0	5.2	5.2	5.2	5.1	4.8	4.8
	-4.0	-5.0	5.6	5.6	5.6	5.4	5.1	5.1
	-2.0	-3.0	6.0	6.0	6.0	5.7	5.3	5.1
	0.0	-1.0	6.4	6.4	6.4	6.0	5.5	5.1
	3.0	2.0	6.8	6.8	6.8	6.3	5.8	5.3
	5.0	4.0	6.8	6.8	6.8	6.3	5.8	5.3
	7.0	6.0	6.8	6.8	6.8	<b>6.3</b>	5.8	5.3
	9.0	8.0	6.8	6.8	6.8	6.3	5.8	5.3
	11	10.0	6.8	6.8	6.8	6.3	5.8	5.3
	13	12.0	6.8	6.8	6.8	6.3	5.8	5.3
15	14.0	6.8	6.8	6.8	6.3	5.8	5.3	
7.1	-15.0	-15.8	5.2	5.2	5.0	5.0	4.8	4.8
	-14.0	-14.8	5.3	5.3	5.4	5.3	5.0	4.8
	-12.0	-12.8	5.5	5.5	5.5	5.5	5.3	5.0
	-10.0	-10.8	5.7	5.7	5.7	5.7	5.6	5.0
	-8.0	-8.8	5.9	5.9	5.9	5.9	5.9	5.3
	-6.0	-7.0	6.2	6.2	6.2	6.2	6.2	5.6
	-4.0	-5.0	6.5	6.5	6.5	6.5	6.5	5.9
	-2.0	-3.0	6.8	6.8	6.8	6.8	6.8	6.2
	0.0	-1.0	7.1	7.1	7.1	7.0	7.0	6.5
	3.0	2.0	7.4	7.4	7.4	7.4	7.1	6.8
	5.0	4.0	7.7	7.7	7.7	7.7	7.4	6.8
	7.0	6.0	8.0	8.0	8.0	<b>8.0</b>	7.4	6.8
	9.0	8.0	8.3	8.3	8.3	8.0	7.4	6.8
	11	10.0	8.6	8.6	8.6	8.0	7.4	6.8
	13	12.0	8.6	8.6	8.6	8.0	7.4	6.8
15	14.0	8.6	8.6	8.6	8.0	7.4	6.8	

TC: total capacity

Indoor Unit size (kw)	Outdoor temperature		Indoor temperature (°c,)DB					
			14	16	18	20	22	24
	DB	WB	TC	TC	TC	TC	TC	TC
			kW	kW	kW	kW	KW	Kw
8.0	-15.0	-15.8	6.3	6.3	6.2	6.2	6.1	6.0
	-14.0	-14.8	6.4	6.4	6.3	6.3	6.3	6.3
	-12.0	-12.8	6.6	6.6	6.5	6.5	6.5	6.5
	-10.0	-10.8	6.8	6.8	6.7	6.7	6.7	6.7
	-8.0	-8.8	7.0	7.0	6.9	6.9	6.9	6.9
	-6.0	-7.0	7.2	7.2	7.1	7.1	7.1	7.1
	-4.0	-5.0	7.5	7.5	7.4	7.4	7.4	7.4
	-2.0	-3.0	7.8	7.8	7.7	7.7	7.7	7.7
	0.0	-1.0	8.1	8.1	7.8	7.8	7.8	7.8
	3.0	2.0	8.4	8.4	7.9	7.9	7.9	7.8
	5.0	4.0	8.7	8.7	8.1	8.1	8.1	7.8
	7.0	6.0	9.0	9.0	8.4	<b>8.4</b>	8.4	7.8
	9.0	8.0	9.3	9.3	8.7	8.7	8.4	7.8
	11	10.0	9.6	9.6	9.0	9.0	8.4	7.8
	13	12.0	9.9	9.9	9.3	9.0	8.4	7.8
15	14.0	10.2	10.2	9.6	9.0	8.4	7.8	
9.0	-15.0	-15.8	6.4	6.4	6.3	6.3	6.2	6.1
	-14.0	-14.8	6.8	6.8	6.7	6.7	6.7	6.6
	-12.0	-12.8	7.2	7.2	7.1	7.1	7.1	7.0
	-10.0	-10.8	7.6	7.6	7.6	7.6	7.6	7.5
	-8.0	-8.8	8.0	8.0	8.0	8.0	8.0	7.9
	-6.0	-7.0	8.4	8.4	8.4	8.4	8.4	8.2
	-4.0	-5.0	8.7	8.7	8.7	8.7	8.7	8.4
	-2.0	-3.0	9.0	9.0	9.0	9.0	9.0	8.4
	0.0	-1.0	9.3	9.3	9.3	9.3	9.2	8.4
	3.0	2.0	9.7	9.7	9.7	9.7	9.2	8.4
	5.0	4.0	10.0	10.0	10.0	10.0	9.2	8.4
	7.0	6.0	10.4	10.4	10.4	<b>10.0</b>	9.2	8.4
	9.0	8.0	10.7	10.7	10.7	10.0	9.2	8.4
	11	10.0	11.0	11.0	10.8	10.0	9.2	8.4
	13	12.0	11.3	11.3	10.8	10.0	9.2	8.4
15	14.0	11.6	11.6	10.8	10.0	9.2	8.4	

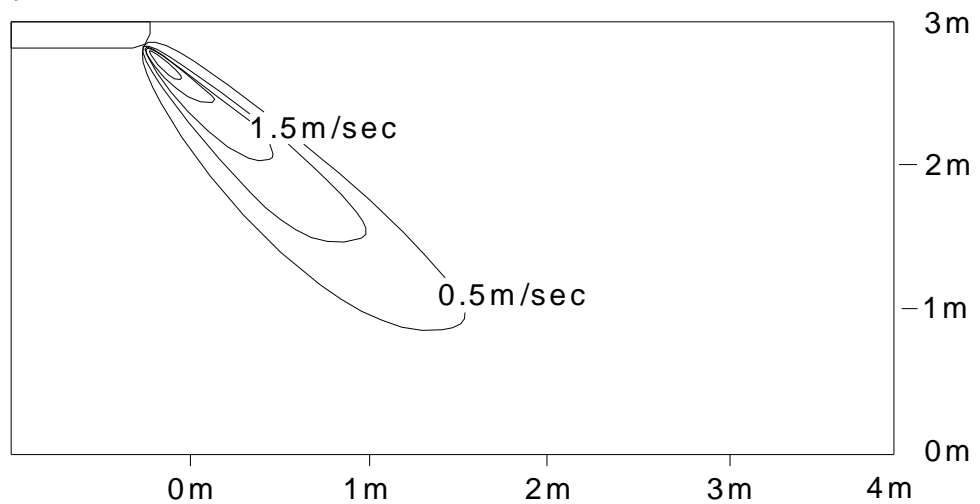
TC: total capacity

Indoor Unit size (kw)	Outdoor temperature		Indoor temperature (°c,)DB					
			14	16	18	20	22	24
	DB	WB	TC	TC	TC	TC	TC	TC
			kW	kW	kW	kW	KW	Kw
11.2	-15.0	-15.8	8.2	8.2	8.0	8.0	7.9	7.8
	-14.0	-14.8	8.5	8.5	8.5	8.5	8.4	8.3
	-12.0	-12.8	8.8	8.8	8.8	8.8	8.8	8.8
	-10.0	-10.8	9.2	9.2	9.2	9.2	9.2	9.2
	-8.0	-8.8	9.6	9.6	9.6	9.6	9.6	9.6
	-6.0	-7.0	10.0	10.0	10.0	10.0	10.0	9.9
	-4.0	-5.0	10.5	10.5	10.5	10.5	10.5	10.5
	-2.0	-3.0	11.0	11.0	11.0	11.0	11.0	11.0
	0.0	-1.0	11.5	11.5	11.5	11.5	11.4	11.0
	3.0	2.0	12.0	12.0	12.0	12.0	12.0	11.0
	5.0	4.0	12.5	12.5	12.5	12.5	12.0	11.0
	7.0	6.0	13.0	13.0	13.0	<b>13.0</b>	12.0	11.0
	9.0	8.0	13.5	13.5	13.5	13.0	12.0	11.0
	11	10.0	14.0	14.0	14.0	13.0	12.0	11.0
	13	12.0	14.5	14.5	14.0	13.0	12.0	11.0
15	14.0	15.0	15.0	14.0	13.0	12.0	11.0	

4.7 Velocity distribution

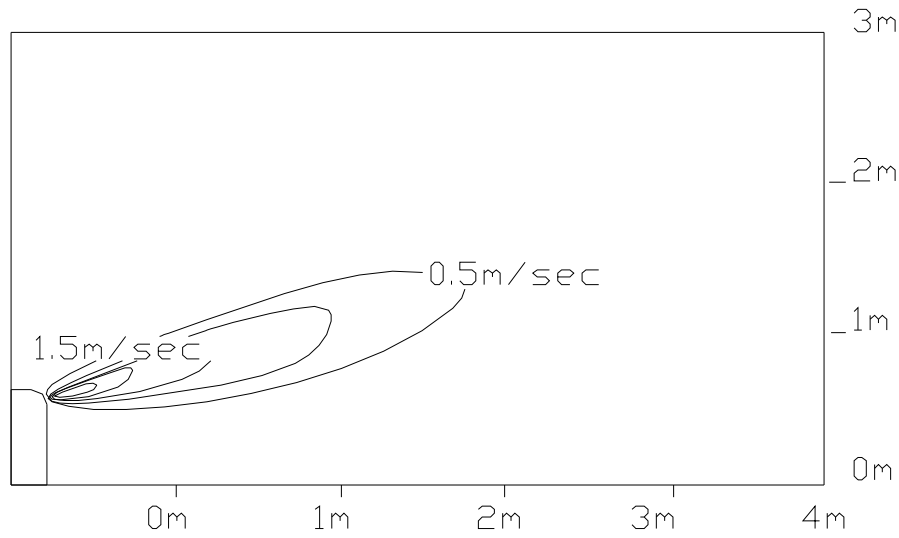
Discharge angle 60°C

Airflow velocity



Discharge angle 60°C

Airflow velocity



**4.8 Functional part & safety device**

	Model MDV-D	36DL/N1-B	45DL/N1-B	56DL/N1-B	71DL/N1-B
Safety Device	PC board fuse	5A	5A	5A	5A
	Fan motor thermal protector	BW130°C	BW130°C	BW130°C	BW130°C
Functional Device	Electronic throttle kit	Inner	Inner	Inner	Inner

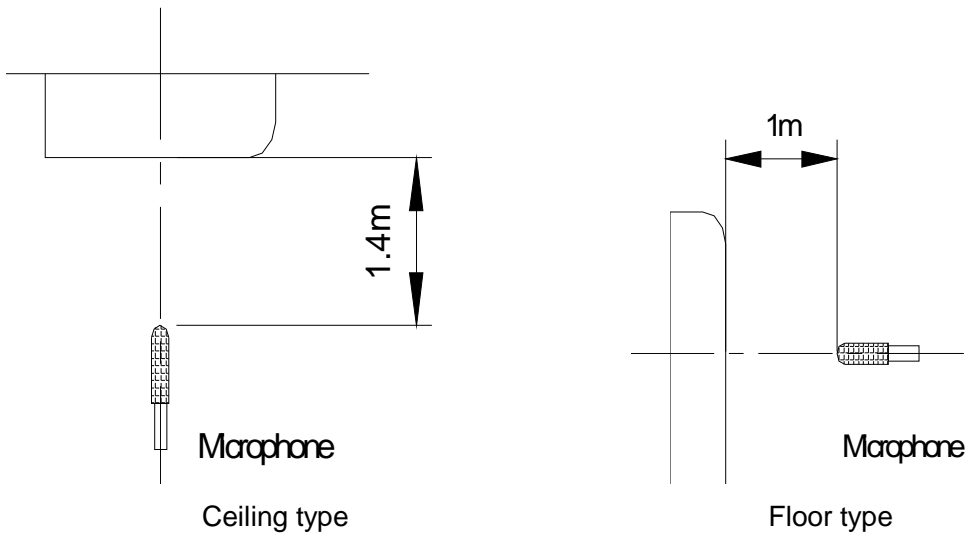
	Model MDV-D	80DL/N1-B	90DL/N1-B	112DL/N1-B	140DL/N1-B
Safety Device	PC board fuse	5A	5A	5A	5A
	Fan motor thermal protector	BW130°C	BW130°C	BW130°C	BW130°C
Functional Device	Electronic throttle kit	Inner	Inner	Inner	Inner

**Remark:** 1. BW130°C - cut off at 130°C±15°C and recover at 85°C±15°C

2.All the electronic throttle kits are inside in the indoor unit, no independent electronic throttle kit.

### 4.9 Sound levels

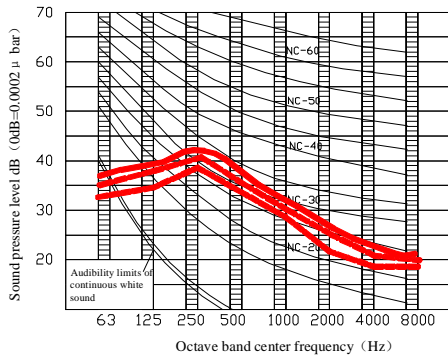
#### 4.9.1 Test condition



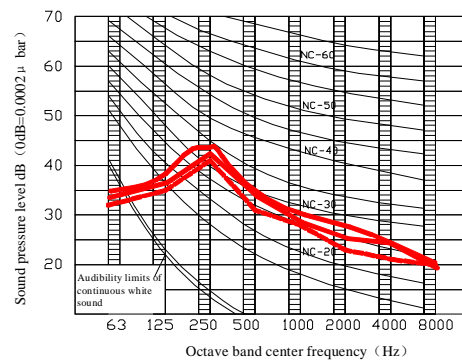
—————	High airflow
- - - - -	Mid airflow
- · - · -	Low airflow

#### 4.9.2 Noise spectrums

##### MDV-D36、45、56DL/N1-B

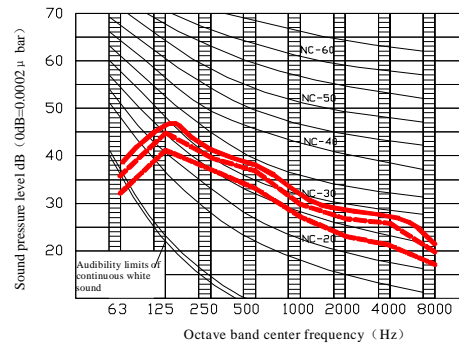
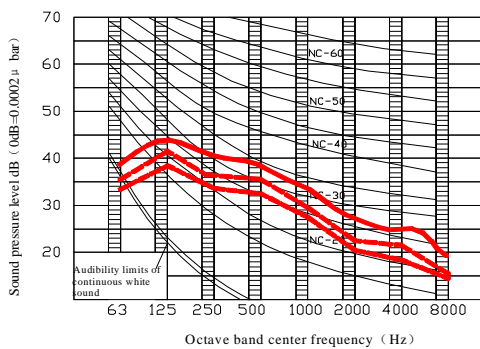


Ceiling



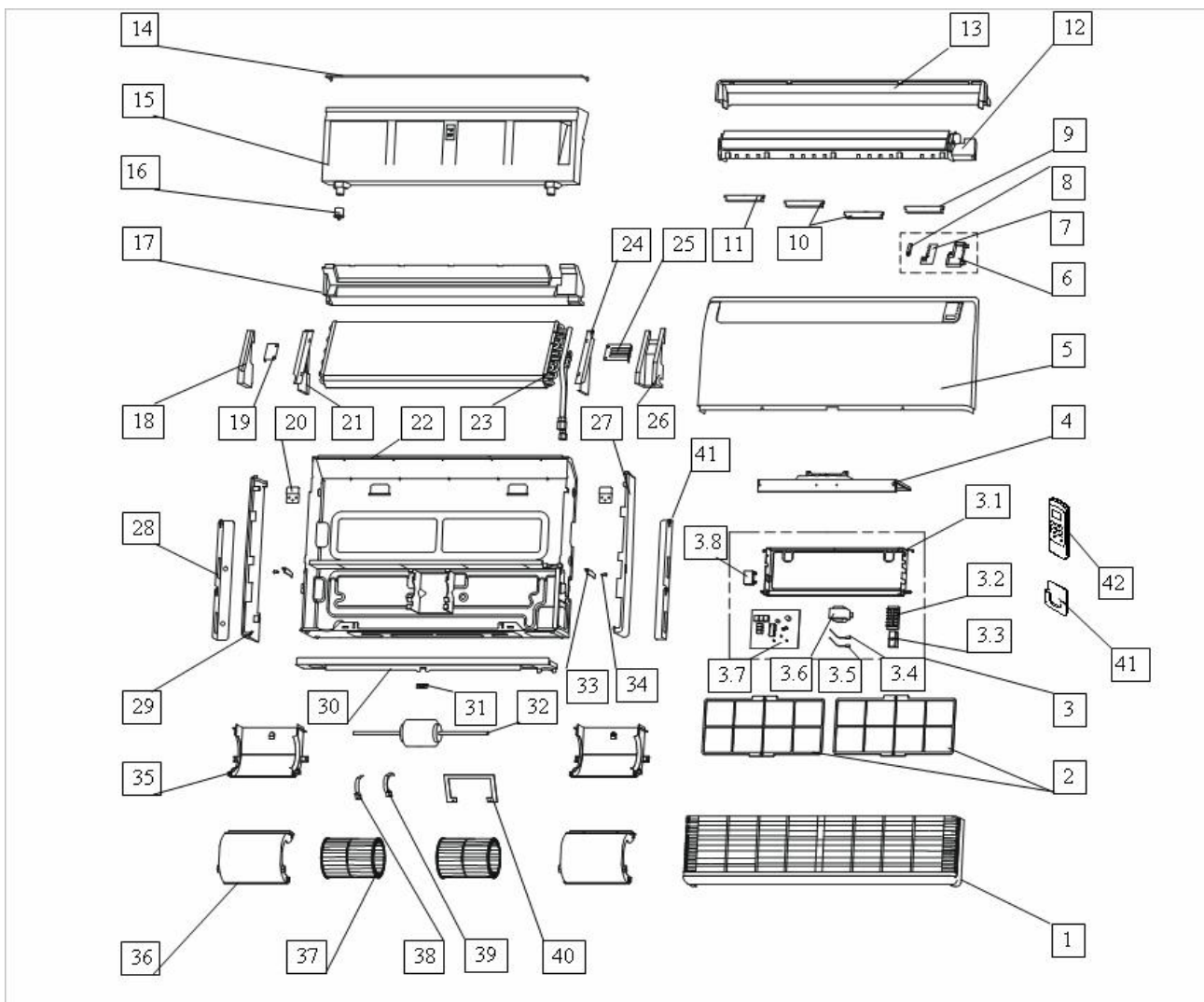
Floor

##### MDV-D71、80、90、112、140DL/N1-B



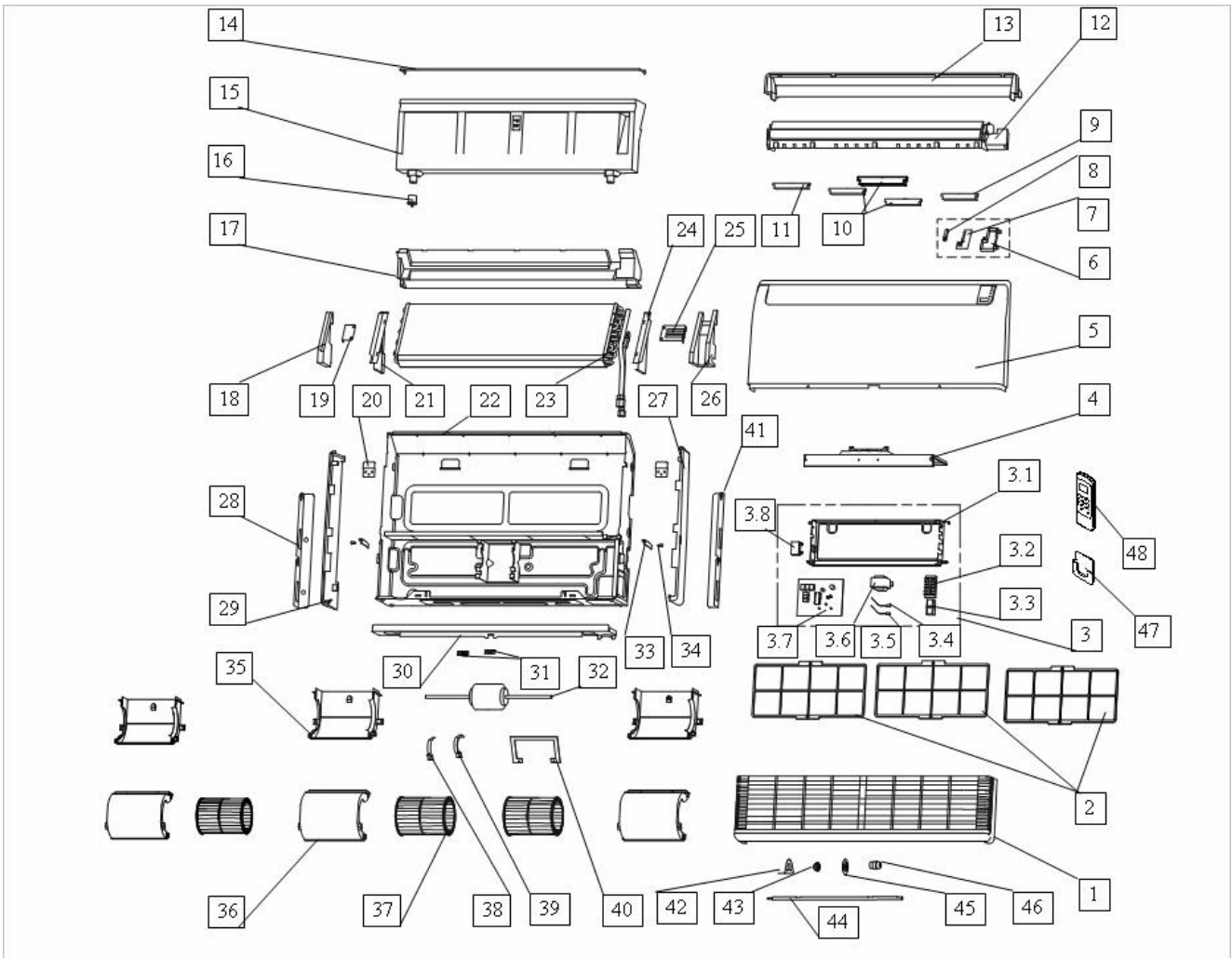
4.10 Exploded view

4.10.1 MDV-D36DL/N1-B MDV-D45DL/N1-B MDV-D56DL/N1-B MDV-D71DL/N1-B



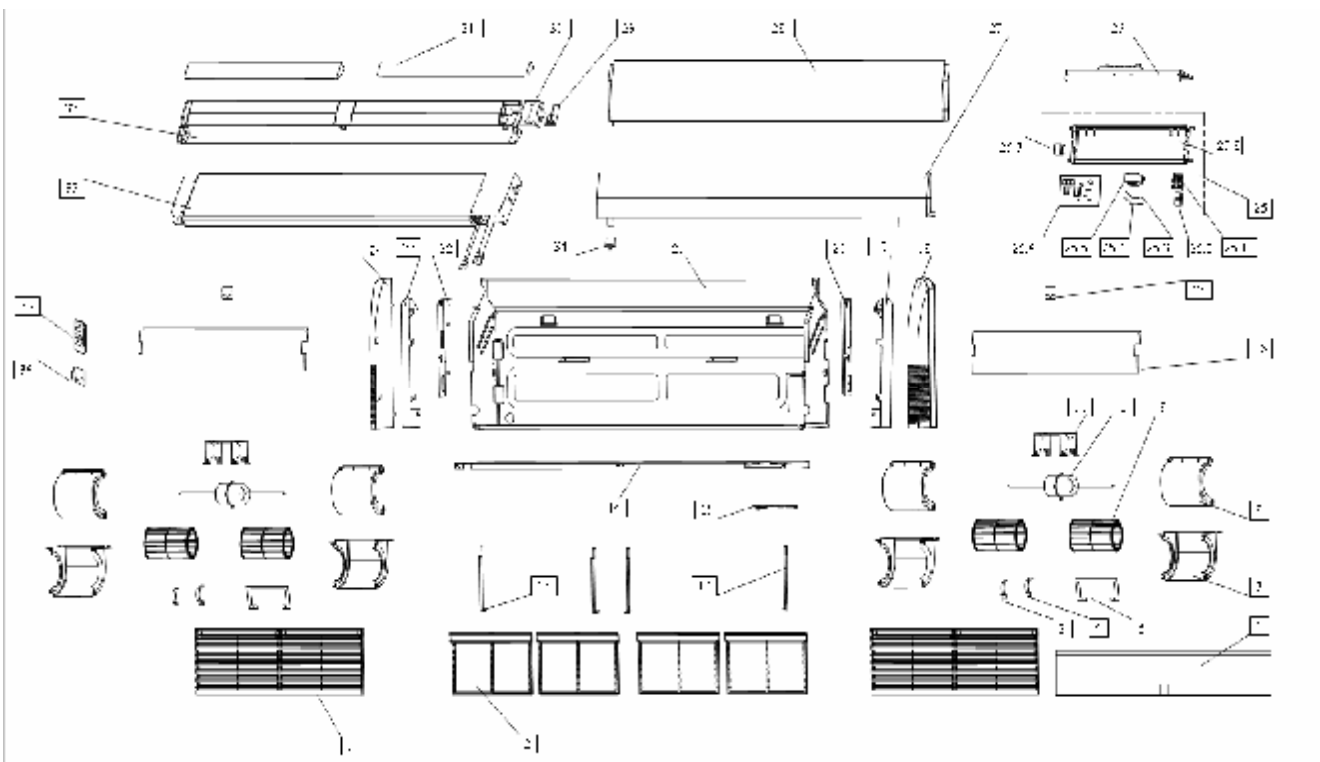
No.	Part Name	Quantity	No.	Part Name	Quantity
1	Air inlet grille	1	20	Installation clamp	2
2	filter	2	21	Right holder, eva	1
3	Electric control assy	1	22	Base pan	1
3.1	Electric part box	1	23	Evaporator	1
3.2	Wire joint	1	23.1	Electric expansive valve	1
3.3	Wire joint (ROHS)	1	23.2	Electric Expansion loop	1
3.4	Pipe Temperature Sensor Ass'y II	1	24	left holder, eva	1
3.5	Pipe Temperature Sensor Ass'y	1	25	left fixed board, eva	1
3.6	Transformer	1	26	left frame holder, eva	1
3.7	Main control PCB	1	27	left clapboard	1
3.8	Fan motor capacitor	1	28	right installation board	1
4	Cover for E-box	1	29	right clapboard	1
5	Panel Ass'y	1	30	middle beam	1
6	Display panel box	1	31	grille lock	1
7	Display PCB assy	1	32	fan motor	1
8	Manual button	1	33	grille strip	2
9	Sealing foam I for air out frame	1	34	grille strip screw	2
10	Sealing foam II for air out frame	2	35	Scroll-shell, down	2
11	Sealing foam III for air out frame	1	36	Scroll-shell, up	2
12	Air-out frame assy	1	37	fan	2
13	Back clapboard	1	38	left fixing clamp for motor	1
14	wiry holder for water collector	1	39	right fixing clamp for motor	1
15	Collect water pan assy	15	40	Strenghten board for motor	1
16	plastic cover	16	41	left installation board	1
17	base pan frame assy	17			
18	Right frame holder, eva	18	42	holder	1
19	Right fixed board, eva	1	43	Remote Controller	1

4.10.2 MDV-D80DL/N1-B MDV-D90DL/N1-B



No.	Part Name	Quantity	No.	Part Name	Quantity
1	Air inlet grille	1	22	Base pan	1
2	filter	3	23	Evaporator	1
3	E-Parts box ass'y	1	24	left holder, eva	1
3.1	Electric part box	1	25	left fixed board, eva	1
3.2	Wire joint	1	26	left frame holder, eva	1
3.3	Wire joint	1	27	left clapboard	1
3.4	Pipe temp. sensor ass'y	1	28	right installation board	1
3.5	Room temp. sensor ass'y	1	29	right clapboard	1
3.6	Transformer	1	30	middle beam	1
3.7	Main control PCB	1	31	grille lock	2
3.8	Fan motor capacitor	1	32	fan motor	1
4	Cover for E-box	1	33	grille strip	2
5	Panel ass'y	1	34	grille strip screw	2
6	Display panel box	1	35	Scroll-shell, down	3
7	Display board ass'y	1	36	Scroll-shell, up	3
8	Manual button	1	37	fan	3
9	Sealing foam I for air out frame	1	38	left fixing clamp for motor	1
10	Sealing foam II for air out frame	3	39	right fixing clamp for motor	1
11	Sealing foam III for air out frame	1	40	Strengthen board for motor	1
12	Air-out frame assy	1	41	left installation board	1
13	Back clapboard	1	42	Supporting board for bearing	1
14	wiry holder for water collector	1	43	bearing underlay	1
15	Collect water pan ass'y	1	44	Axis	1
16	plastic cover	1	45	Fixing board for bearing	1
17	base pan frame ass'y	1	46	Coupling	1
18	Right frame holder, eva	1	47	holder	1
19	Right fixed board, eva	1	48	Remote Controller	1
20	Installation clamp	2	49	Electric Expansion loop	1
21	Right holder, eva	1	50	Electric expansive valve	1

4.10.3 MDV-D112DL/N1-B MDV-D140DL/N1-B



No.	Part Name	Quantity	No.	Part Name	Quantity
1	Air inlet grille	2	24	left clapboard	1
2	filter	4	25	Electric control assy	1
3	left fixing clamp for motor	2	25.1	Wire joint	1
4	right fixing clamp for motor	2	25.2	Wire joint	1
5	Strengthen board for motor	2	25.3	Pipe Temperature Sensor Ass'y II	1
6	E-part box underlay	1	25.4	Pipe Temperature Sensor Ass'y	1
7	Scroll-shell, down	4	25.5	Transformer	1
8	Scroll-shell, up	4	25.6	Main control PCB	1
9	fan	2	25.7	Fan motor capacitor	2
10	fan motor	2	25.8	Electric part box	1
11	fan motor holder	2	26	Cover for E-box	1
12	right holder, filter	2	27	Collect water pan assy	1
13	left holder, filter	2	28	cover	1
14	middle beam	1	29	Display PCB assy	1
15	pipe fixed board	1	30	Display panel box	1
16	Sealing foam for collect pan	2	31	Sealing foam I for air out frame	2
17	Installation clamp	2	32	Air-out frame assy	1
18	right clapboard	1	33	Evaporator	1
19	right sealing board	1	33.1	Electric expansive valve	1
20	right installation board	1	33.2	Electric Expansion loop	1
21	Base pan	1	34	plastic cover	1
22	left installation board	1	35	holder	1
23	left sealing board	1	36	Remote Controller	1

**4.11 Optional accessories**

Number	Item
1	Wired controller
2	Central Controller Monitor
3	Net work controller

# Wall mounted type

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**5.1 Features**

- 5.1.1 The evaporator employs a Multi-bend structure which enlarges the heat exchange surface.
- 5.1.2 The front panel is tightly fixed with the front frame by simply buckling the latter with a buckle mechanism on the panel.
- 5.1.3 The manual force switch employs comfortable switch push buttons.

## 5.2 Specifications

Model		MDV-D22G/N1-E1	MDV-D28G/N1-E1	MDV-D36G/N1-E1	MDV-D45G/N1-E1	MDV-D56G/N1-E1	
		MDV-D22G/N1-E7	MDV-D28G/N1-E7	MDV-D36G/N1-E7	MDV-D45G/N1-E7	MDV-D56G/N1-E7	
Power Supply	Ph-V-Hz	220-240V~,50HZ					
Nominal Capacity							
Cooling	Capacity	Btu/h	7000	9000	12000	15000	19000
	Input	W	50	50	50	60	60
Heating	Capacity	Btu/h	8000	10000	13500	16500	21000
	Input	W	50	50	50	60	60
Electric Parameter							
Max. input consumption	W	55	55	55	96	96	
Running current	A	0.19	0.19	0.19	0.23	0.23	
Starting current	A	2.2	2.2	2.2	3.2	3.2	
Indoor Motor							
Model		RPS13D			RPS28D		
Type		Cross fan					
Brand		Welling					
Input	W	40			50		
Capacitor	uF	1.5uF/450V					
Speed (hi/mi/lo)	r/min	1180*1000*850			1180*1080*800		
Indoor noise level (Hi/Mid/Low)	dB(A)	42/39/36			46/43/39		
Indoor Coil							
a. Number of rows		2					
b. Tube pitch(a)x row pitch(b)	mm	21*13.37					
c. Fin spacing	mm	1.3					
d. Fin type (code)		Hydrophilic aluminum					
e. Tube outside dia. and type	mm	φ7, Inner groove tube					
f. Coil length x height x width	mm	637*294*26.74			725X325X26.74		
g. Number of circuits		2					
Indoor air flow (Hi/Lo)	m <sup>3</sup> /h	580/430/410			1150/800/650		
Technical Specification							
indoor unit	Dimension (W*H*D)	mm	790x265x195			920*292*225	
	Packing (W*H*D)	mm	875*447*290			1015X465X295	
	Net/Gross weight	Kg	11/14			15/17	
Piping size	Liquid/ Gas side	mm(inch)	Φ6.35(1/4')/ φ12.7(1/2')				
Qty per 20'/40'/40'HQ	Pieces	312/668/780			288/578/653		

**Notes:** 1. Nominal cooling capacities are based on the following conditions:

indoor temperature : 27°CDB,19°CWB,outdoor temperature:35°CDB,equivalent ref. Piping: 8m(horizontal).

2. Nominal heating capacities are based on the following conditions:

indoor temperature: 20°CDB,outdoor temperature: 7°CDB,6°CWB,equivalent ref. Piping: 8m(horizontal).

Model		MDV-D22G/BN1-E	MDV-D28G/BN1-E	MDV-D36G/BN1-E	MDV-D45G/BN1-E	MDV-D56G/BN1-E	
Power Supply	Ph-V-Hz	220-240V~,50HZ					
Nominal Capacity							
Cooling	Capacity	Btu/h	7000	9000	12000	15000	19000
	Input	W	50	50	50	60	60
Heating	Capacity	Btu/h	8500	10000	13500	16500	21000
	Input	W	50	50	50	60	60
Electric Parameter							
Max. input consumption	W	55	55	55	96	96	
Running current	A	0.19	0.19	0.19	0.23	0.23	
Starting current	A	2.2	2.2	2.2	3.2	3.2	
Fan Motor							
Model		RPS13D			RPS28D		
Type		Cross fan					
Brand		Welling					
Input	W	40			50		
Capacitor	uF	1.5uF/450V					
Speed (hi/mi/lo)	r/min	1180*1000*850			1180*1080*800		
Indoor noise level (Hi/Mid/Low)	dB(A)	44/42/38	44/42/38	44/42/38	46/43/39	46/43/39	
Indoor Coil							
a. Number of rows		2					
b. Tube pitch(a)x row pitch(b)	mm	21*13.37					
c. Fin spacing	mm	1.3					
d. Fin type (code)		Hydrophilic aluminum					
e. Tube outside dia. and type	mm	φ7, Inner groove tube					
f. Coil length x height x width	mm	637*294*26.74			725X325X26.74		
g. Number of circuits		2			2		
Indoor air flow (Hi/Lo)	m <sup>3</sup> /h	580/430/410			1150/800/650		
Technical Specification							
indoor unit	Dimension (W*H*D)	mm	875x265x198	875x265x198	875x265x198	1000*293*216	
	Packing (W*H*D)	mm	960*447*290	960*447*290	960*447*290	1100X465X295	1100X465X295
	Net/Gross weight	Kg	11/14	11/14	11/14	15/17	15/17
Piping size	Liquid/ Gas side	mm(inch)	Φ6.35(1/4')/ φ12.7(1/2')				
Qty per 20'/40'/40'HQ	Pieces	310/665/778			285/575/658		

**Notes:** 1. Nominal cooling capacities are based on the following conditions:

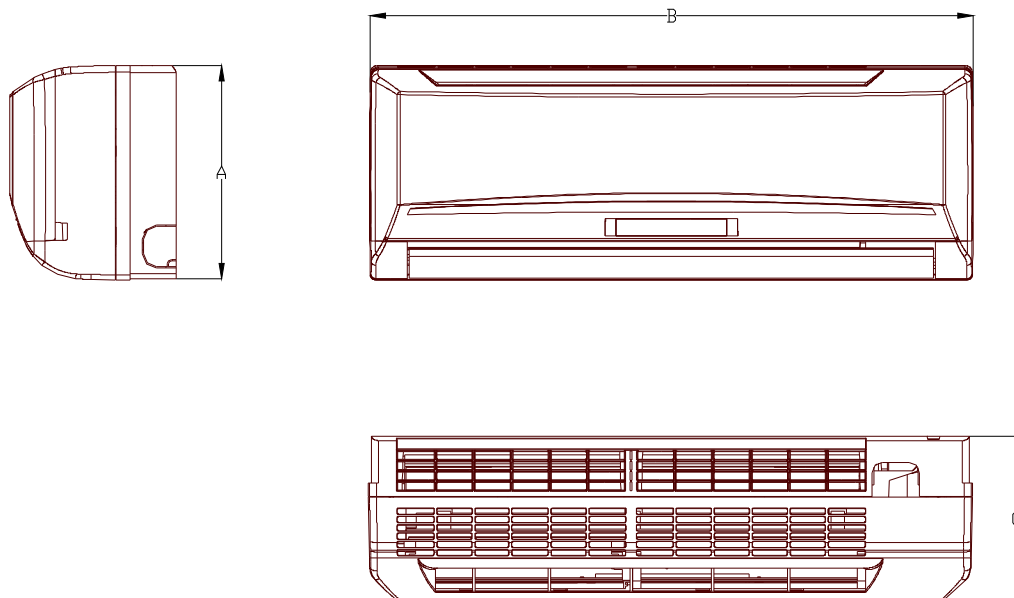
indoor temperature : 27°CDB,19°CWB,outdoor temperature:35°CDB,equivalent ref. Piping: 8m(horizontal).

2. Nominal heating capacities are based on the following conditions:

indoor temperature: 20°CDB,outdoor temperature: 7°CDB,6°CWB,equivalent ref. Piping: 8m(horizontal).

**5.3 Dimensions**

**5.3.1** MDV-D22G/N1-E1 MDV-D28G/N1-E1 MDV-D36G/N1-E1  
 MDV-D45G/N1-E1 MDV-D56G/N1-E1



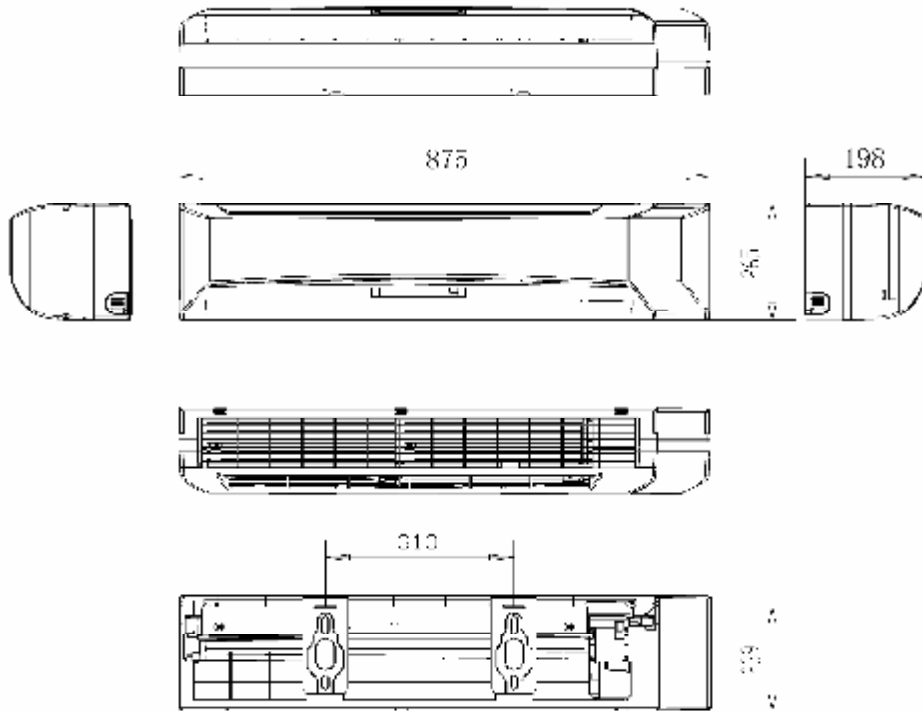
Dimension:

Name	unit	diameter
Drain hole	mm	15
Liquid side	mm	6.35
Gas side	mm	12.7

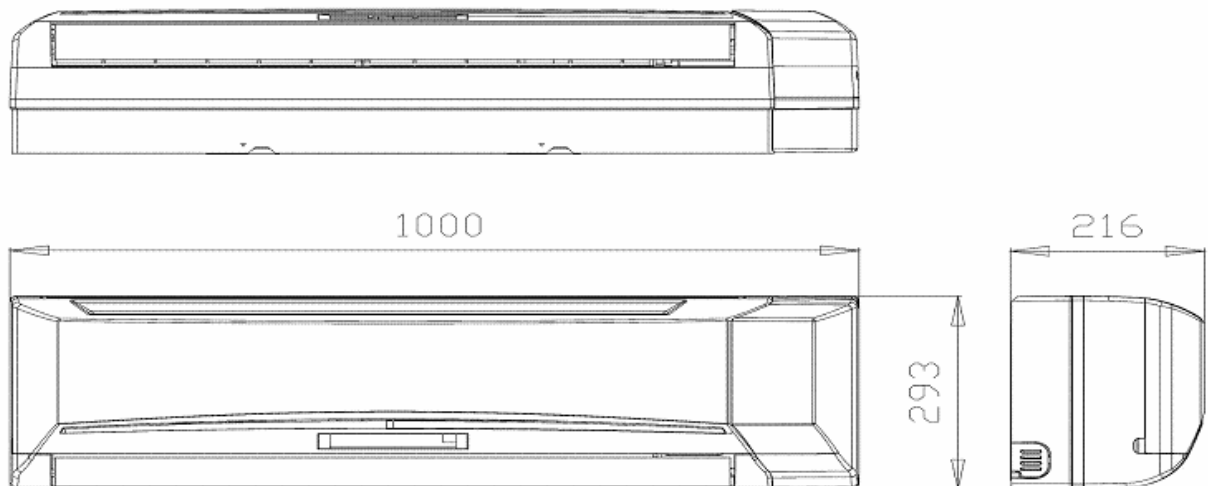
Dimension:

Mode \ Dimension	W	H	D
MDV-D22G/N1-E1 MDV-D28G/N1-E1 MDV-D36G/N1-E1	790	265	195
MDV-D45G/N1-E1 MDV-D56G/N1-E1	920	292	225

MDV-D22G/BN1-E MDV-D28G/BN1-E MDV-D36G/BN1-E

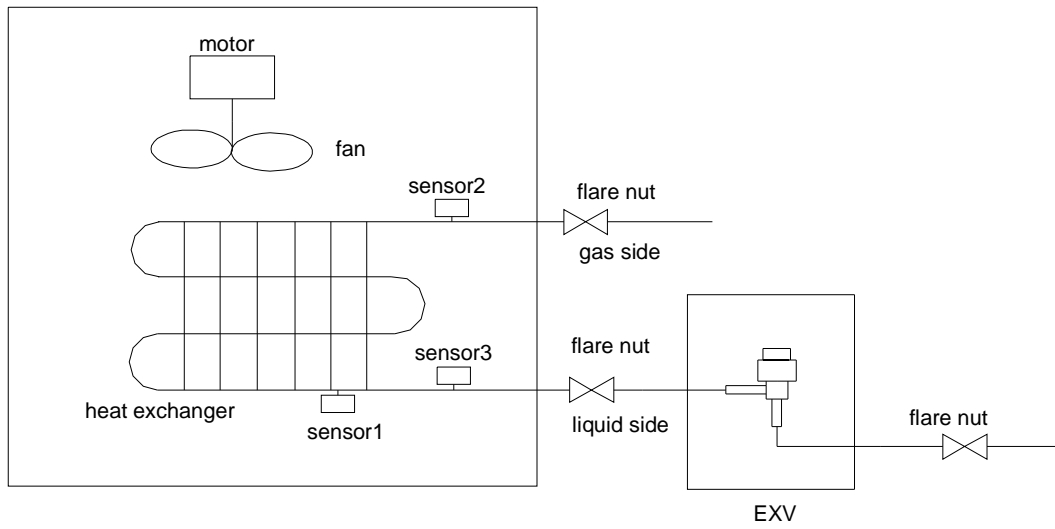


MDV-D45G/BN1-E MDV-D56G/BN1-E

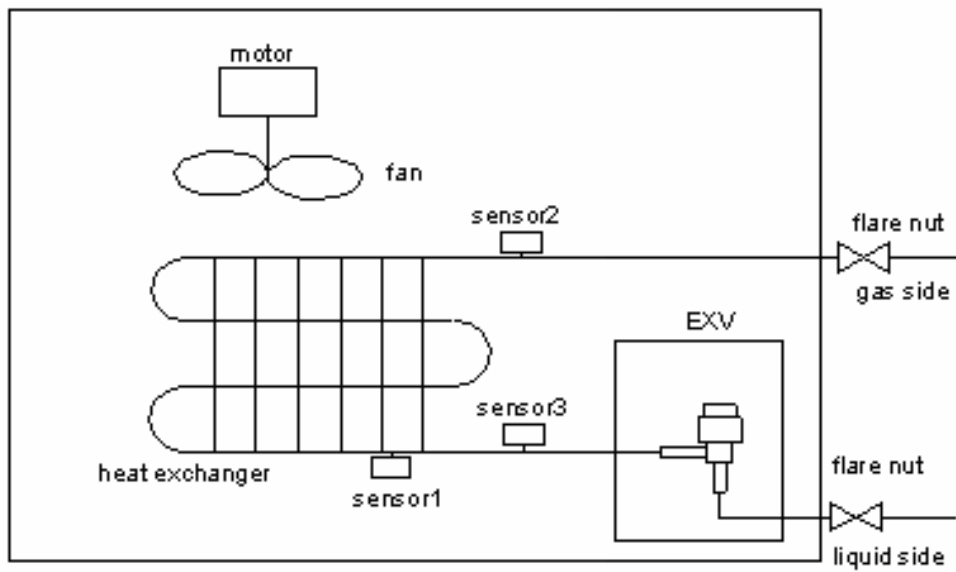


5.4 Piping diagrams

MDV-D22G/N1-E1(E7) MDV-D28G/N1-E1(E7) MDV-D36G/N1-E1(E7)  
MDV-D45G/N1-E1(E7) MDV-D56G/N1-E1(E7)



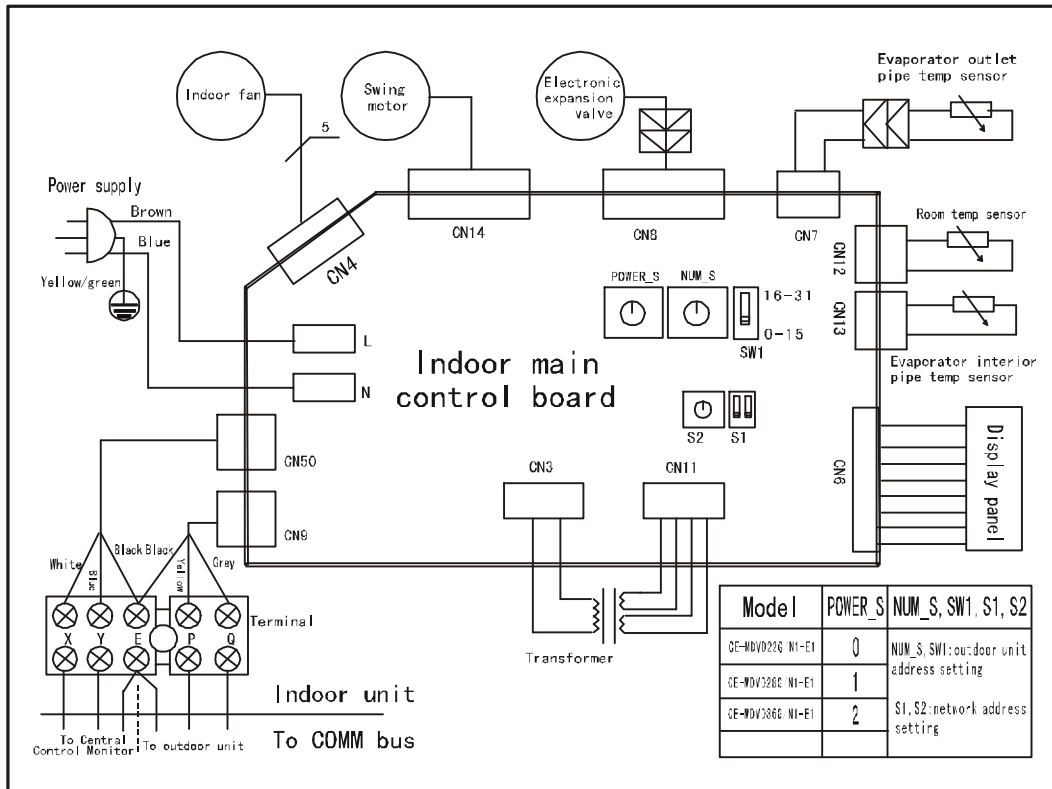
MDV-D22G/BN1-E MDV-D28G/BN1-E MDV-D36G/BN1-E  
MDV-D45G/BN1-E MDV-D56G/BN1-E



5.5 Wiring diagrams

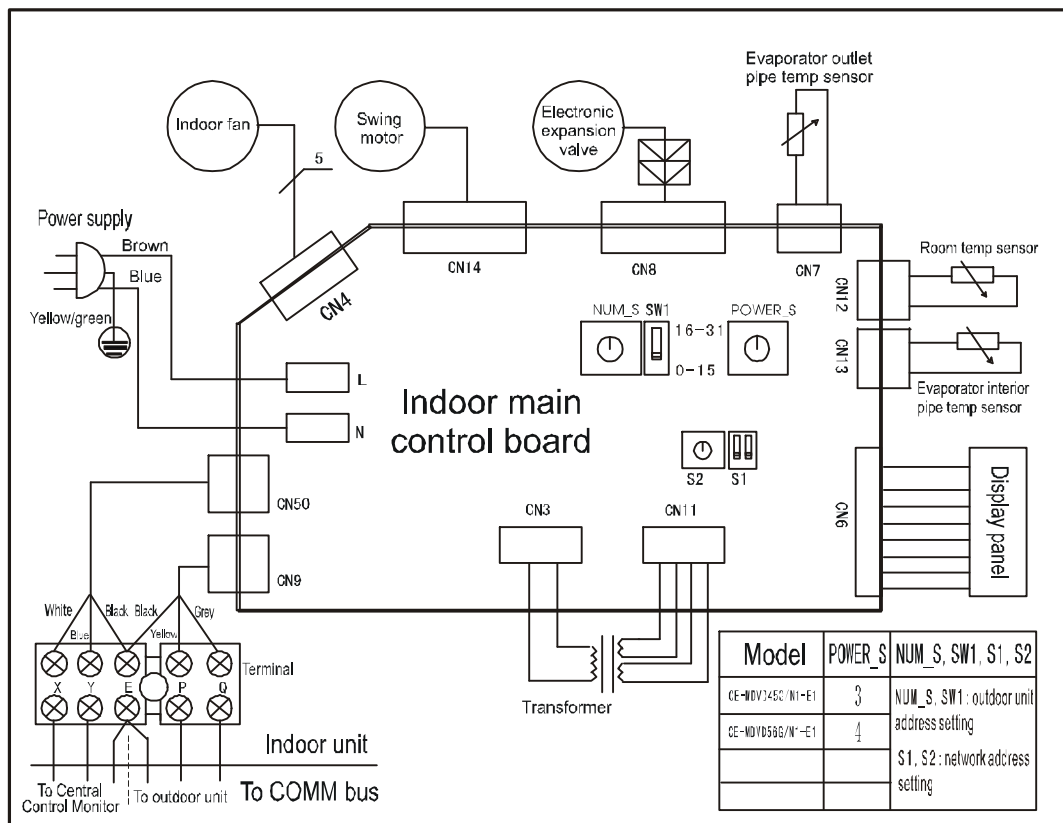
MDV-D22G/N1-E1(E7) MDV-D28G/N1-E1(E7) MDV-D36G/N1-E1(E7)

MDV-D22G/BN1-E MDV-D28G/BN1-E MDV-D36G/BN1-E



MDV-D45G/N1-E1(E7) MDV-D56G/N1-E1(E7)

MDV-D45G/BN1-E MDV-D56G/BN1-E



**5.6 Capacity table**

**5.6.1 Cooling**

**TC: total capacity SHC: sensible capacity**

Indoor Unit size (kw)	Outdoor temperature (°c ,DB)	Indoor temperature (°c,WB)													
		14		16		18		19		20		22		24	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
2.2	10	1.4	1.2	1.8	1.3	2.2	1.5	2.4	1.6	2.6	1.7	3.0	1.8	3.4	2.0
	12	1.4	1.2	1.8	1.3	2.2	1.5	2.4	1.6	2.6	1.7	3.0	1.8	3.4	2.0
	14	1.4	1.2	1.8	1.3	2.2	1.5	2.4	1.6	2.6	1.7	3.0	1.8	3.4	2.0
	16	1.4	1.2	1.8	1.3	2.2	1.5	2.4	1.6	2.6	1.7	3.0	1.8	3.4	2.0
	18	1.4	1.2	1.8	1.3	2.2	1.5	2.4	1.6	2.6	1.7	3.0	1.8	3.4	2.0
	20	1.4	1.2	1.8	1.3	2.2	1.5	2.4	1.6	2.6	1.7	3.0	1.8	3.4	2.0
	21	1.4	1.2	1.8	1.3	2.2	1.5	2.4	1.6	2.6	1.7	3.0	1.8	3.4	2.0
	23	1.4	1.2	1.8	1.3	2.2	1.5	2.4	1.6	2.6	1.7	3.0	1.8	3.4	2.0
	25	1.4	1.2	1.8	1.3	2.2	1.5	2.4	1.6	2.6	1.7	3.0	1.8	3.4	2.0
	27	1.4	1.2	1.8	1.3	2.2	1.5	2.4	1.6	2.6	1.7	3.0	1.8	3.4	2.0
	29	1.4	1.2	1.8	1.3	2.2	1.5	2.4	1.6	2.6	1.7	3.0	1.8	3.4	2.0
	31	1.4	1.2	1.8	1.3	2.2	1.5	2.4	1.6	2.6	1.7	3.0	1.8	3.4	2.0
	33	1.3	1.1	1.7	1.2	2.1	1.4	2.3	1.5	2.5	1.6	2.9	1.7	3.3	1.9
	35	1.3	1.1	1.7	1.2	2.1	1.4	<b>2.2</b>	1.5	2.5	1.6	2.9	1.7	3.3	1.9
	37	1.3	1.1	1.7	1.2	2.1	1.4	2.2	1.5	2.5	1.6	2.9	1.7	3.3	1.9
39	1.3	1.1	1.7	1.2	2.1	1.4	2.2	1.5	2.5	1.6	2.9	1.7	3.3	1.9	
2.8	10	2.0	1.7	2.4	1.8	2.8	2.0	3.0	2.1	3.2	2.2	3.6	2.3	4.0	2.6
	12	2.0	1.7	2.4	1.8	2.8	2.0	3.0	2.1	3.2	2.2	3.6	2.3	4.0	2.6
	14	2.0	1.7	2.4	1.8	2.8	2.0	3.0	2.1	3.2	2.2	3.6	2.3	4.0	2.6
	16	2.0	1.7	2.4	1.8	2.8	2.0	3.0	2.1	3.2	2.2	3.6	2.3	4.0	2.6
	18	2.0	1.7	2.4	1.8	2.8	2.0	3.0	2.1	3.2	2.2	3.6	2.3	4.0	2.6
	20	2.0	1.7	2.4	1.8	2.8	2.0	3.0	2.1	3.2	2.2	3.6	2.3	4.0	2.6
	21	2.0	1.7	2.4	1.8	2.8	2.0	3.0	2.1	3.2	2.2	3.6	2.3	4.0	2.6
	23	2.0	1.7	2.4	1.8	2.8	2.0	3.0	2.1	3.2	2.2	3.6	2.3	4.0	2.6
	25	2.0	1.7	2.4	1.8	2.8	2.0	3.0	2.1	3.2	2.2	3.6	2.3	4.0	2.6
	27	2.0	1.7	2.4	1.8	2.8	2.0	3.0	2.1	3.2	2.2	3.6	2.3	4.0	2.6
	29	2.0	1.7	2.4	1.8	2.8	2.0	3.0	2.1	3.2	2.2	3.6	2.3	4.0	2.6
	31	2.0	1.7	2.4	1.8	2.8	2.0	3.0	2.1	3.2	2.2	3.6	2.3	4.0	2.6
	33	1.9	1.6	2.3	1.7	2.7	1.9	2.9	2.0	3.1	2.1	3.5	2.2	3.9	2.4
	35	1.9	1.6	2.3	1.7	2.7	1.9	<b>2.8</b>	2.0	3.1	2.1	3.5	2.2	3.9	2.4
	37	1.9	1.6	2.3	1.7	2.7	1.9	2.8	2.0	3.1	2.1	3.5	2.2	3.9	2.4
39	1.9	1.6	2.3	1.7	2.7	1.9	2.8	2.0	3.1	2.1	3.5	2.2	3.9	2.4	

TC: total capacity SHC: sensible capacity

Indoor Unit size (kw)	Outdoor temperature (°c ,DB)	Indoor temperature (°c,WB)													
		14		16		18		19		20		22		24	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
3.6	10	2.8	2.5	3.2	2.7	3.6	2.9	3.8	3.0	4.0	3.1	4.4	3.2	4.8	3.3
	12	2.8	2.5	3.2	2.7	3.6	2.9	3.8	3.0	4.0	3.1	4.4	3.2	4.8	3.3
	14	2.8	2.5	3.2	2.7	3.6	2.9	3.8	3.0	4.0	3.1	4.4	3.2	4.8	3.3
	16	2.8	2.5	3.2	2.7	3.6	2.9	3.8	3.0	4.0	3.1	4.4	3.2	4.8	3.3
	18	2.8	2.5	3.2	2.7	3.6	2.9	3.8	3.0	4.0	3.1	4.4	3.2	4.8	3.3
	20	2.8	2.5	3.2	2.7	3.6	2.9	3.8	3.0	4.0	3.1	4.4	3.2	4.8	3.3
	21	2.8	2.5	3.2	2.7	3.6	2.9	3.8	3.0	4.0	3.1	4.4	3.2	4.8	3.3
	23	2.8	2.5	3.2	2.7	3.6	2.9	3.8	3.0	4.0	3.1	4.4	3.2	4.8	3.3
	25	2.8	2.5	3.2	2.7	3.6	2.9	3.8	3.0	4.0	3.1	4.4	3.2	4.8	3.3
	27	2.8	2.5	3.2	2.7	3.6	2.9	3.8	3.0	4.0	3.1	4.4	3.2	4.8	3.3
	29	2.8	2.5	3.2	2.7	3.6	2.9	3.8	3.0	4.0	3.1	4.4	3.2	4.8	3.3
	31	2.7	2.4	3.1	2.6	3.5	2.8	3.7	2.9	3.9	3.0	4.3	3.1	4.7	3.2
	33	2.7	2.4	3.1	2.6	3.5	2.8	3.7	2.9	3.9	3.0	4.3	3.1	4.7	3.2
	35	2.7	2.4	3.1	2.6	3.5	2.8	<b>3.6</b>	2.9	3.9	3.0	4.3	3.1	4.7	3.2
	37	2.7	2.4	3.1	2.6	3.5	2.8	3.6	2.9	3.9	3.0	4.3	3.1	4.7	3.2
39	2.7	2.4	3.1	2.6	3.5	2.8	3.6	2.9	3.9	3.0	4.3	3.1	4.7	3.2	
4.5	10	3.3	3.0	3.9	3.3	4.4	3.7	4.8	3.8	5.1	3.9	5.6	4.0	6.2	4.1
	12	3.3	3.0	3.9	3.3	4.4	3.7	4.8	3.8	5.1	3.9	5.6	4.0	6.2	4.1
	14	3.3	3.0	3.9	3.3	4.4	3.7	4.8	3.8	5.1	3.9	5.6	4.0	6.2	4.1
	16	3.3	3.0	3.9	3.3	4.4	3.7	4.8	3.8	5.1	3.9	5.6	4.0	6.2	4.1
	18	3.3	3.0	3.9	3.3	4.4	3.7	4.8	3.8	5.1	3.9	5.6	4.0	6.2	4.1
	20	3.3	3.0	3.9	3.3	4.4	3.7	4.8	3.8	5.1	3.9	5.6	4.0	6.2	4.1
	21	3.2	2.9	3.8	3.2	4.3	3.6	4.7	3.7	5.0	3.8	5.5	4.0	6.1	4.1
	23	3.2	2.9	3.8	3.2	4.3	3.6	4.7	3.7	5.0	3.8	5.5	4.0	6.1	4.1
	25	3.2	2.9	3.8	3.2	4.3	3.6	4.7	3.7	5.0	3.8	5.5	4.0	6.1	4.1
	27	3.2	2.9	3.8	3.2	4.3	3.6	4.7	3.7	5.0	3.8	5.5	4.0	6.1	4.1
	29	3.2	2.9	3.8	3.2	4.3	3.6	4.7	3.7	5.0	3.8	5.5	4.0	6.1	4.1
	31	3.2	2.9	3.8	3.2	4.3	3.6	4.7	3.7	5.0	3.8	5.5	4.0	6.1	4.1
	33	3.2	2.9	3.8	3.2	4.3	3.6	4.7	3.7	5.0	3.8	5.5	4.0	6.1	4.1
	35	3.1	2.8	3.7	3.1	4.2	3.5	<b>4.5</b>	3.6	4.9	3.7	5.4	3.9	6.0	4.0
	37	3.1	2.8	3.7	3.1	4.2	3.5	4.5	3.6	4.9	3.7	5.4	3.9	6.0	4.0
39	3.1	2.8	3.7	3.1	4.2	3.5	4.5	3.6	4.8	3.7	5.3	3.8	5.9	3.9	

**TC: total capacity SHC: sensible capacity**

Indoor Unit size (kw)	Outdoor temperature (°c ,DB)	Indoor temperature (°c,WB)													
		14		16		18		19		20		22		24	
		TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC	TC	SHC
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
5.6	10	4.3	3.7	4.9	3.9	5.5	4.2	5.8	4.3	6.1	4.4	6.7	4.5	7.3	4.6
	12	4.3	3.7	4.9	3.9	5.5	4.2	5.8	4.3	6.1	4.4	6.7	4.5	7.3	4.6
	14	4.3	3.7	4.9	3.9	5.5	4.2	5.8	4.3	6.1	4.4	6.7	4.5	7.3	4.6
	16	4.3	3.7	4.9	3.9	5.5	4.2	5.8	4.3	6.1	4.4	6.7	4.5	7.3	4.6
	18	4.3	3.7	4.9	3.9	5.5	4.2	5.8	4.3	6.1	4.4	6.7	4.5	7.3	4.6
	20	4.3	3.7	4.9	3.9	5.5	4.2	5.8	4.3	6.1	4.4	6.7	4.5	7.3	4.6
	21	4.3	3.7	4.9	3.9	5.5	4.2	5.8	4.3	6.1	4.4	6.7	4.5	7.3	4.6
	23	4.3	3.7	4.9	3.9	5.5	4.2	5.8	4.3	6.1	4.4	6.7	4.5	7.3	4.6
	25	4.3	3.7	4.9	3.9	5.5	4.2	5.8	4.3	6.1	4.4	6.7	4.5	7.3	4.6
	27	4.3	3.7	4.9	3.9	5.5	4.2	5.8	4.3	6.1	4.4	6.7	4.5	7.3	4.6
	29	4.3	3.7	4.9	3.9	5.5	4.2	5.8	4.3	6.1	4.4	6.7	4.5	7.3	4.6
	31	4.3	3.7	4.9	3.9	5.5	4.2	5.8	4.3	6.1	4.4	6.7	4.5	7.3	4.6
	33	4.2	3.6	4.8	3.8	5.4	4.1	5.7	4.2	6.0	4.3	6.6	4.4	7.2	4.5
	35	4.2	3.6	4.8	3.8	5.4	4.1	<b>5.6</b>	4.2	6.0	4.3	6.6	4.4	7.2	4.5
37	4.2	3.6	4.8	3.8	5.4	4.1	5.6	4.2	6.0	4.3	6.6	4.4	7.2	4.5	
39	4.2	3.6	4.8	3.8	5.4	4.1	5.6	4.2	6.0	4.3	6.6	4.4	7.2	4.5	

## 5.6.2 Heating

TC: total capacity

Indoor Unit size (kw)	Outdoor temperature		Indoor temperature (°c,)DB					
			14	16	18	20	22	24
	DB	WB	TC	TC	TC	TC	TC	TC
kW			kW	kW	kW	KW	Kw	
2.2	-15.0	-15.8	1.8	1.8	1.7	17	1.6	1.6
	-14.0	-14.8	1.8	1.8	1.8	1.8	1.7	1.6
	-12.0	-12.8	1.9	1.9	1.9	18	1.7	1.6
	-10.0	-10.8	1.9	1.9	1.9	19	1.8	1.7
	-8.0	-8.8	1.9	1.9	1.9	19	1.9	1.8
	-6.0	-7.0	2.1	2.1	2.1	2.1	2.0	1.9
	-4.0	-5.0	2.2	2.2	2.2	2.2	2.1	2.0
	-2.0	-3.0	2.4	2.4	2.4	2.4	2.2	2.0
	0.0	-1.0	2.6	2.6	2.6	2.5	2.3	2.1
	3.0	2.0	2.8	2.7	26	2.6	2.4	2.2
	5.0	4.0	3.0	2.9	2.8	2.6	2.4	2.2
	7.0	6.0	3.0	2.9	2.8	<b>2.6</b>	2.4	2.2
	9.0	8.0	3.0	2.9	2.8	2.6	2.4	2.2
	11	10.0	3.0	2.9	2.8	2.6	2.4	2.2
	13	12.0	3.0	2.9	2.8	2.6	2.4	2.2
15	14.0	3.0	2.9	2.8	2.6	2.4	2.2	
2.8	-15.0	-15.8	2.0	2.0	1.9	1.9	1.8	1.8
	-14.0	-14.8	2.0	2.0	2.0	2.0	2.0	2.0
	-12.0	-12.8	2.2	2.2	2.2	2.1	2.1	2.1
	-10.0	-10.8	2.4	2.4	2.4	2.2	2.2	2.2
	-8.0	-8.8	2.6	2.6	2.6	2.3	2.3	2.3
	-6.0	-7.0	2.8	2.8	2.8	2.4	2.4	2.4
	-4.0	-5.0	3.0	3.0	3.0	2.6	2.6	2.6
	-2.0	-3.0	3.2	3.2	3.2	2.8	2.8	2.8
	0.0	-1.0	3.5	3.5	3.4	3.0	3.0	3.0
	3.0	2.0	3.6	3.5	3.4	3.2	3.0	2.8
	5.0	4.0	3.6	3.5	3.4	3.2	3.0	2.8
	7.0	6.0	3.6	3.5	3.4	<b>3.2</b>	3.0	2.8
	9.0	8.0	3.6	3.5	3.4	3.2	3.0	2.8
	11	10.0	3.6	3.5	3.4	3.2	3.0	2.8
	13	12.0	3.6	3.5	3.4	3.2	3.0	2.8
15	14.0	3.6	3.5	3.4	3.2	3.0	2.8	

TC: total capacity

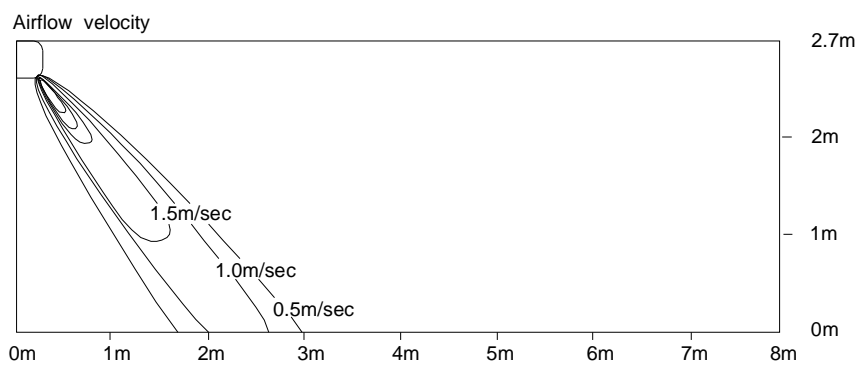
Indoor Unit size (kw)	Outdoor temperature		Indoor temperature (°c,)DB					
			14	16	18	20	22	24
	DB	WB	TC	TC	TC	TC	TC	TC
			KW	KW	KW	KW	KW	Kw
3.6	-15.0	-15.8	2.6	2.6	2.6	2.6	2.5	2.4
	-14.0	-14.8	2.6	2.6	2.6	2.6	2.6	2.6
	-12.0	-12.8	2.8	2.8	2.8	2.7	2.7	2.7
	-10.0	-10.8	3.0	3.0	3.0	2.7	2.7	2.7
	-8.0	-8.8	3.2	3.2	3.2	2.8	2.8	2.8
	-6.0	-7.0	3.4	3.4	3.4	3.0	3.0	3.0
	-4.0	-5.0	3.6	3.6	3.6	3.2	3.2	3.2
	-2.0	-3.0	4.0	4.0	3.7	3.4	3.4	3.4
	0.0	-1.0	4.2	4.2	3.9	3.6	3.6	3.6
	3.0	2.0	4.4	4.4	4.1	3.8	3.8	3.8
	5.0	4.0	4.6	4.6	4.3	4.0	3.7	3.4
	7.0	6.0	4.6	4.6	4.3	<b>4.0</b>	3.7	3.4
	9.0	8.0	4.6	4.6	4.3	4.0	3.7	3.4
	11	10.0	4.6	4.6	4.3	4.0	3.7	3.4
	13	12.0	4.6	4.6	4.3	4.0	3.7	3.4
15	14.0	4.6	4.6	4.3	4.0	3.7	3.4	
4.5	-15.0	-15.8	3.2	3.2	3.1	3.1	3.0	3.0
	-14.0	-14.8	3.5	3.5	3.5	3.2	3.2	3.2
	-12.0	-12.8	3.7	3.7	3.7	3.4	3.4	3.4
	-10.0	-10.8	4.0	4.0	4.0	3.6	3.6	3.6
	-8.0	-8.8	4.3	4.3	4.3	3.8	3.8	3.8
	-6.0	-7.0	4.6	4.6	4.6	4.0	4.0	4.0
	-4.0	-5.0	5.0	5.0	5.0	4.2	4.2	4.0
	-2.0	-3.0	5.3	5.3	5.3	4.4	4.4	4.0
	0.0	-1.0	5.5	5.5	5.3	4.6	4.4	4.2
	3.0	2.0	5.8	5.8	5.4	4.8	4.6	4.2
	5.0	4.0	5.8	5.8	5.4	5.0	4.6	4.2
	7.0	6.0	5.8	5.8	5.4	<b>5.0</b>	4.6	4.2
	9.0	8.0	5.8	5.8	5.4	5.0	4.6	4.2
	11	10.0	5.8	5.8	5.4	5.0	4.6	4.2
	13	12.0	5.8	5.8	5.4	5.0	4.6	4.2
15	14.0	5.8	5.8	5.4	5.0	4.6	4.2	

TC: total capacity

Indoor Unit size (kw)	Outdoor temperature		Indoor temperature (°c.)DB					
			14	16	18	19	20	22
	DB	WB	TC	TC	TC	TC	TC	TC
			kW	kW	kW	kW	KW	Kw
5.6	-15.0	-15.8	4.0	4.0	4.0	4.0	3.8	3.8
	-14.0	-14.8	4.2	4.2	4.2	4.2	4.2	4.2
	-12.0	-12.8	4.4	4.4	4.4	4.4	4.4	4.4
	-10.0	-10.8	4.6	4.6	4.6	4.6	4.6	4.6
	-8.0	-8.8	4.8	4.8	4.8	4.8	4.8	4.8
	-6.0	-7.0	5.2	5.2	5.2	5.1	4.8	4.8
	-4.0	-5.0	5.6	5.6	5.6	5.4	5.1	5.1
	-2.0	-3.0	6.0	6.0	6.0	5.7	5.3	5.1
	0.0	-1.0	6.4	6.4	6.4	6.0	5.5	5.1
	3.0	2.0	6.8	6.8	6.8	6.3	5.8	5.3
	5.0	4.0	6.8	6.8	6.8	6.3	5.8	5.3
	7.0	6.0	6.8	6.8	6.8	<b>6.3</b>	5.8	5.3
	9.0	8.0	6.8	6.8	6.8	6.3	5.8	5.3
	11	10.0	6.8	6.8	6.8	6.3	5.8	5.3
	13	12.0	6.8	6.8	6.8	6.3	5.8	5.3
15	14.0	6.8	6.8	6.8	6.3	5.8	5.3	

5.7 Air velocity & temperature distributions (reference data)

Discharge angle 70°



**5.8 Function part & safety device**

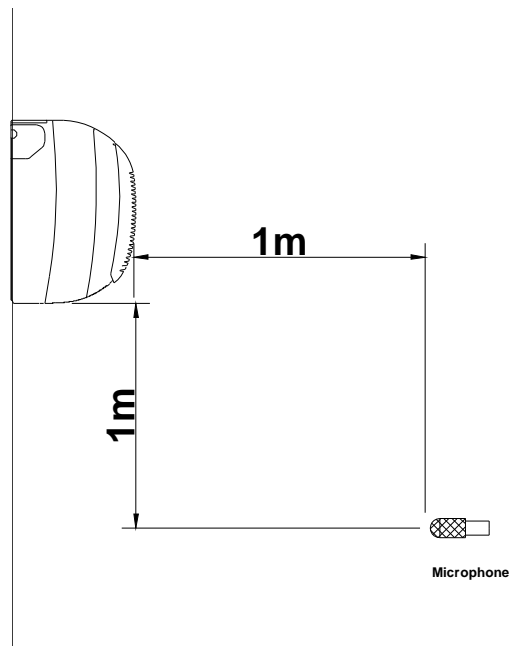
Model MDV-D		22G/N1-E1(E7)	28G/N1- E1(E7)	36G/N1- E1(E7)	45G/N1- E1(E7)	56G/N1- E1(E7)
Safety Device	PC board fuse	5A	5A	5A	5A	5A
	Fan motor thermal protector	BW130°C	BW130°C	BW130°C	BW130°C	BW130°C
Functional Device	Electronic throttle kit	CE-DZJLBJ05	CE-DZJLBJ05	CE-DZJLBJ05	CE-DZJLBJ05	CE-DZJLBJ05

Model MDV-D		22G/BN1-E	28G/BN1-E	36G/BN1-E	45G/BN1-E	56G/BN1-E
Safety Device	PC board fuse	5A	5A	5A	5A	5A
	Fan motor thermal protector	BW130°C	BW130°C	BW130°C	BW130°C	BW130°C

**Remark:** BW130°C - cut off at 130°C±15°C and recover at 85°C±15°C

**5.9 Sound levels**

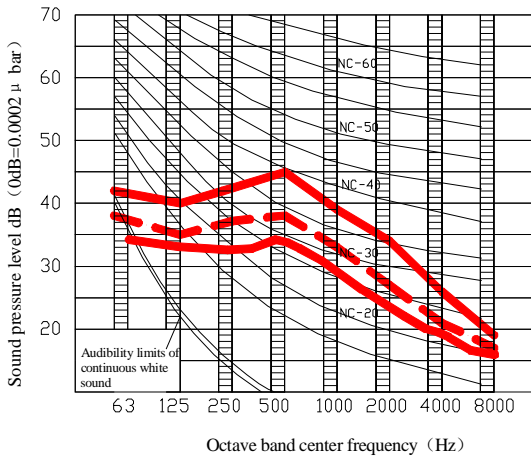
**5.9.1 Test condition**



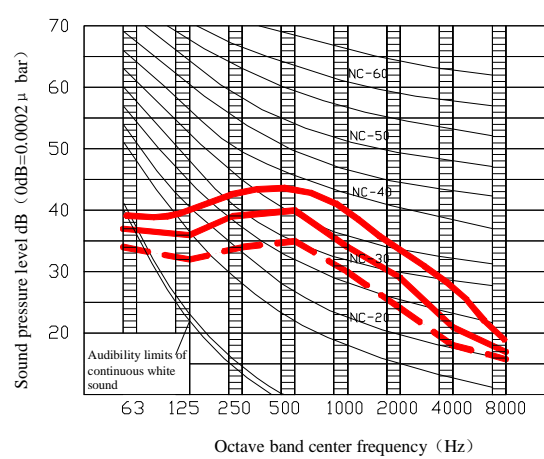
—————	High airflow
.....	Mid airflow
-----	Low airflow

5.9.2 Noise spectrums

MDV-D22G/N1-E1(E7) MDV-D28(36)G/N1-E1(E7)

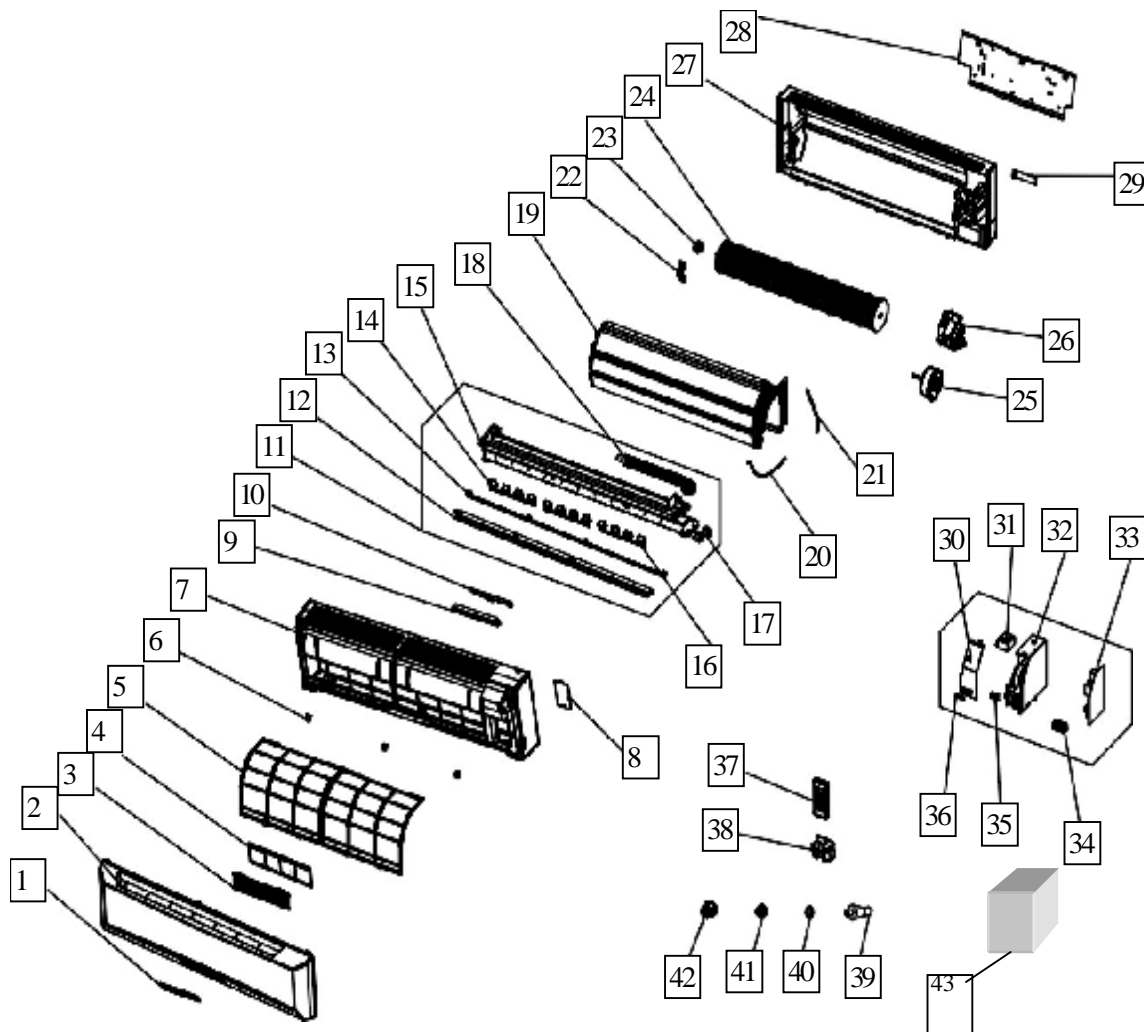


MDV-D45G/N1-E1(E7) MDV-D56G/N1-E1(E7)



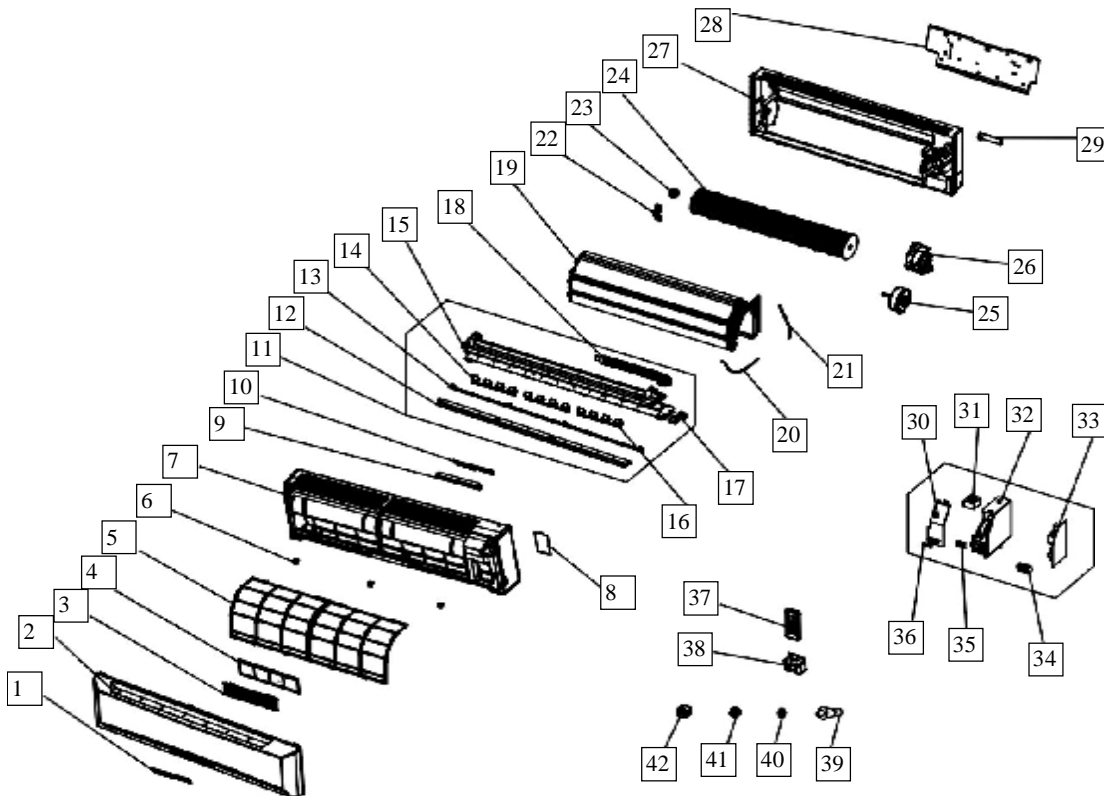
5.10 Exploded view parts

5.10.1 MDV-D22G/N1-E1 MDV-D28G/N1-E1 MDV-D36G/N1-E1



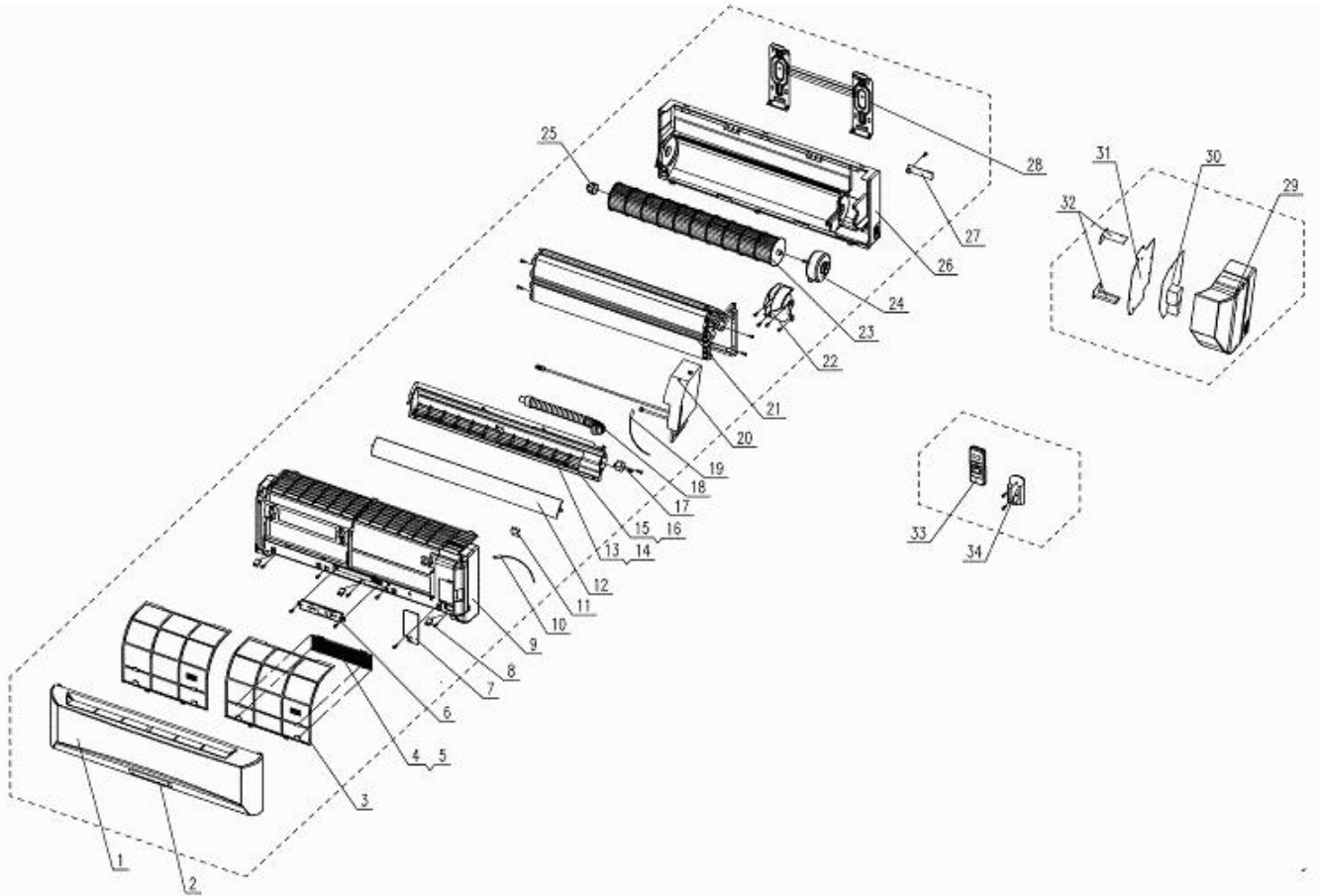
No.	Part Name	Quantity	No.	Part Name	Quantity
1	Indicator for LED	1	23	Bearing holder	1
2	Panel	1	24	Cross flow fan,assy	1
3	Air cleaner	1	25	Fan motor	1
4	Air cleaner holder	1	26	Motor cover	1
5	air filter	2	27	Chassis	1
6	Screw cap	3	28	Installed Plate	1
7	Panel frame assy	1	29	Connecting pipe clamp	1
8	Window cover for repairing	1	30	E-Parts box's cover	1
9	display board holder	1	31	Transformer	1
10	display board assy	1	32	E-Parts box	1
11	Air out frame assy	1	33	Main control board (including Program chip)	1
12	Horizontal louver,up	1			1
13	Horizontal louver,down	1	34	Wire joint, 5p	1
14	Vertical louver	12	35	Wire clamp	1
15	Air out frame	1	36	Wire Clip	1
16	Grille holder	3	37	Remote Controller	1
17	Louver motor	1	38	Holder, Remote Controller	1
18	Drain hose	1	39	connector for watering	1
19	Evaporator,assy	1	40	seal	1
20	Evaporator temp sensor	1	41	Copper nut, TLM-A01	1
21	Indoor temp sensor	1	42	Copper nut, TLM-C03	1
22	Fixing board for bear	1	43	Electronic throttle kit	1

5.10.2 MDV-D45G/N1-E1 MDV-D56G/N1-E1



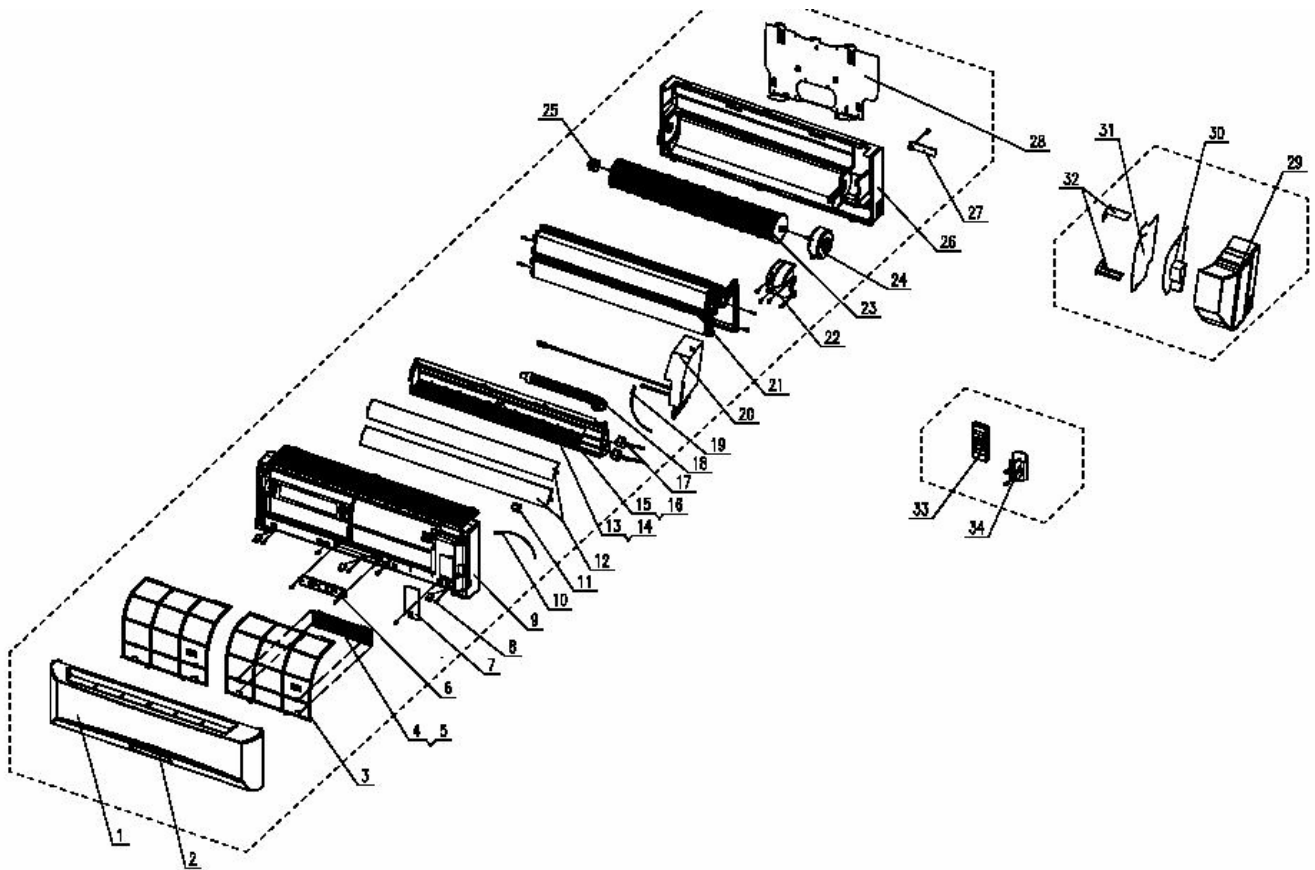
No.	Part Name	Quantity	No.	Part Name	Quantity
1	Indicator for LED	1	23	Bearing holder	1
2	Panel	1	24	Cross flow fan,assy	1
3	Air cleaner	1	25	Fan motor	1
4	Air cleaner holder	1	26	Motor cover	1
5	air filter	2	27	Chassis	1
6	Screw cap	3	28	Installed Plate	1
7	Panel frame assy	1	29	Connecting pipe clamp	1
8	Window cover for repairing	1	30	E-Parts box's cover	1
9	display board holder	1	31	Transformer	1
10	display board assy	1	32	E-Parts box	1
11	Air out frame assy	1	33	Main control board (including Program chip)	1 1
12	Horizontal louver,up	1	34	Wire joint, 5p	1
13	Horizontal louver,down	1	35	Wire clamp	1
14	Vertical louver	12	36	Wire Clip	1
15	Air out frame	1	37	Remote Controller	1
16	Grille holder	3	38	Holder, Remote Controller	1
17	Louver motor	1	39	connector for watering	1
18	Drain hose	1	40	seal	1
19	Evaporator,assy	1	41	Copper nut, TLM-A01	1
20	Evaporator temp sensor	1	42	Copper nut, TLM-C03	1
21	Indoor temp sensor	1	43	Electronic throttle kit	1
22	Fixing board for bear	1			

MDV-D22G/BN1-E MDV-D28G/BN1-E MDV-D36G/BN1-E



No.	Part Name	Quantity	No.	Part Name	Quantity
1	panel assembly	1	19	Evaporator temp sensor	1
2	Display board enclosure	1	20	Electric throttle kit	1
3	Air filter	2	21	evaporator assembly	1
4	Air cleaner	1	22	motor cover	1
5	Air cleaner holder	1	23	Cross fan	1
6	display board subassembly	1	24	Fan motor	1
7	Window cover for repairing	1	25	Bearing holder	1
8	Screw cap	3	26	Chassis assembly	1
9	Panel frame	1	27	Connecting pipe clamp	1
10	Indoor temp sensor subassembly	1	28	Installation plate	1
13	Horizontal louver	10	29	E-part box cover	1
14	Connection bar	2	30	Main control board	1
15	air outlet subassembly	1	31	Electric part box	1
16	Bush	1	32	Connection plate	2
17	Swing motor	1	33	Remote controller	1
18	Drain hose	1	34	Holder for remote controller	1

MDV-D45G/BN1-E MDV-D56G/BN1-E



No.	Part Name	Quantity	No.	Part Name	Quantity
1	panel assembly	1	18	Drain hose	1
2	display board enclosure	1	19	pipe temp sensor assy	1
3	air filter	2	20	Electric throttle	1
4	air cleaner	1	21	Evaporator	1
5	air cleaner holder	1	22	Cover for motor	1
6	display board assembly	1	23	Cross flow fan	1
7	window cover for repairing	1	24	Fan motor	1
8	screw cap	3	25	Bearing holder	1
9	panel frame	1	26	Chassis	1
10	indoor temp. sensor assembly	1	27	pipe fixed board	1
11	Clamp for temp sensor	1	28	indoor installation Plate	1
12	Louver	2	29	E-part box cover	1
13	Horizontal Louver(black)	10	30	main control board	1
14	Link	2	31	Installation board for E-part	1
15	Air-out frame assy	1	32	connection plate	2
16	Bush	1	33	remote controller	1
17	Louver motor	2	34	Holder, Remote Controller	1

**5.11 Optional accessories**

Number	Item
1	Wired controller
2	Central controller
3	Net work controller