Библиотека СОК

Wall Mounted Type (R3 Type)

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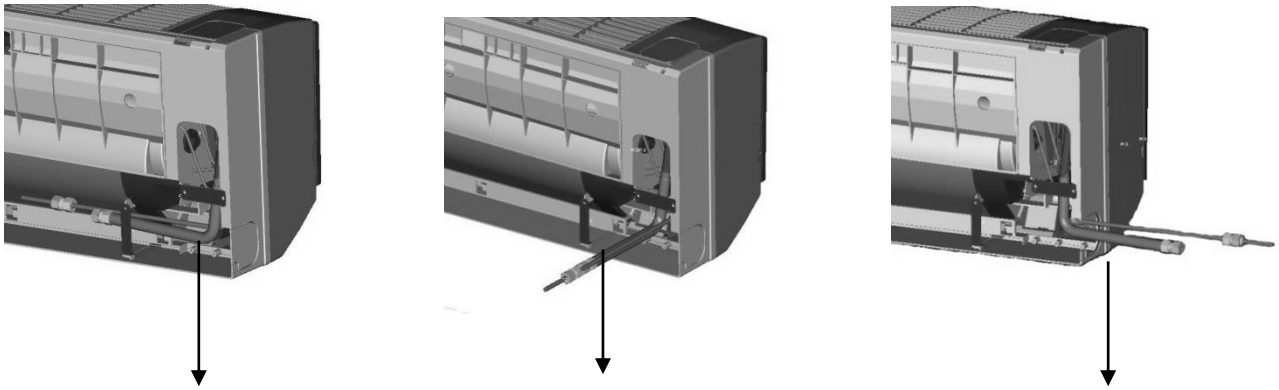
1. Feature

1.1 New panel design, with LED display.



1.2 Convenient for installation

1.2.1 Multi-refrigerant outlet pipe method: left\right\rear, more flexible for installation.



1.2.2 Longer the connection pipe, Gas pipe: 468mm/Liquid pipe: 550mm, more flexible for the installation.

1.2.3 Adopts new type fixing plate, easy for installation and stable.

1.2.4 The EXV is built-in the indoor unit, compact size, and convenient for the installation.

1.2.5 The panel assembly of S type indoor unit can be exchanged with C type indoor unit, alternative panel.

1.2.6 Reserved the socket on main control board for water pump and PCB can be customized if you need water pump function.

1.2.7 The front panel can be lifted up to max. 65 degree and be removed and maintain, easy access for wiring and service.

1.3 Auxiliary electrical heating type is available.

1.4 Three air flow speed: high/medium/low, double air guides.

1.5 Low noise, creates quiet and comfortable environment.

1.5.1 Adoption of the Fujikoki brand mechanical expansion valve which has 2000 stages element positioning, ensure precise flow control, as well lower modulation noise when EXV operating.

1.5.2 More smooth airflow with less turbulence. Owing to the multiple-blade fan and the air guide design, the airflow is getting smoother and more comfortable

1.5.3 Louver's air swing angle can be up to 90º

1.6 Wired/wireless controller is available. RM05 wireless remote controller is standard ,which can set the indoor units' addresses , and wired controller is optional .

1.7 Auto restart

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

2. Specifications

Model			MDV-D15G/N1-R3	MDV-D22G/N1-R3	MDV-D22G/DN1-R3	MDV-D28G/N1-R3
Power supply		V-Ph-Hz	220-240V~, 1Ph, 50Hz			
Cooling	Capacity	kW	1.5	2.2	2.2	2.8
	Input	W	28	28	28	28
	Rated current	A	0.12	0.14	0.14	0.14
Heating	Capacity	kW	1.7	2.6	2.6	3.2
	Input	W	28	28	28	28
	Rated current	A	0.12	0.14	0.14	0.14
Electrical heating capacity		kW	-	-	0.75	-
Indoor fan motor	Model		YDK9-6A	YDK15-6	YDK15-6	YDK15-6
	Type		AC motor			
	Brand		Welling			
	Input	W	23/21/20	30/24/22	30/24/22	30/24/22
	Capacitor	μF	0.8	1.2	1.2	1.2
	Speed (hi/med/lo)	r/min	721/678/614	810/760/700	810/760/700	810/760/700
Indoor coil	Number of rows		2	2	2	2
	Tube pitch×row pitch	mm	21×13.37	21×13.37	21×13.37	21×13.37
	Fin spacing	mm	1.5	1.5	1.5	1.5
	Fin type		Hydrophilic aluminum			
	Tube outside diameter and type	mm	Φ7			
			Inner groove tube			
	Length×height×width	mm	635×315×26.74			
	Number of circuits		2	3	3	3
Indoor air flow (H/M/L)		m^3/h	427/389/336	525/480/430	525/480/4300	525/480/430
Indoor noise level (Hi/Med/Lo)		dB(A)	33/31/28	35/32/29	35/32/29	35/32/29
Indoor unit	Dimension (W×H×D)	mm	915×290×230	915×290×230	915×290×230	915×290×230
	Packing (W×H×D)	mm	1020×390×315	1020×390×315	1020×390×315	1020×390×315
	Net/Gross weight	kg	12.4/15.9	13/16.5	13/16.5	13/16.5
Refrigerant type			R410A			
Throttle		Type	EXV (Mechanical gear modulation, integrated with the evaporator)			
		Model	EFM-25YGMISZ-6M-A			
Design pressure		MPa	4.4/2.6			
Refrigerant piping	Liquid side/ Gas side	mm	Φ6.35/ Φ12.7			
Connecting wiring	Power wiring	mm^2	3×2.5			
	Signal wiring	mm^2	3×0.75			
Drainage water pipe diameter			ODΦ16.5			
Controller			Wireless remote controller (RM05/BG(T)E-A) (Standard), to set address			
Operation temp.		˚C	17～30			

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

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

Model			MDV-D28G/DN1-R3	MDV-D36G/N1-R3	MDV-D36G/DN1-R3	MDV-D45G/N1-R3
Power supply		V- Ph-Hz	220-240V~, 1Ph, 50Hz			
Cooling	Capacity	kW	2.8	3.6	3.6	4.5
	Input	W	28	28	28	45
	Rated current	A	0.14	0.14	0.14	0.2
Heating	Capacity	kW	3.2	4	4	5
	Input	W	28	28	28	45
	Rated current	A	0.14	0.14	0.14	0.2
Electrical heating capacity		kW	0.75	-	0.75	-
Indoor fan motor	Model		YDK15-6	YDK15-6	YDK15-6	YDK18-4
	Type		AC motor			
	Brand		Welling			
	Input	W	30/24/22	30/24/22	30/24/22	44/42/39
	Capacitor	μF	1.2	1.2	1.2	1.2
	Speed (hi/med/lo)	r/min	810/760/700	810/760/700	810/760/700	980/880/760
Indoor coil	Number of rows		2	2	2	2
	Tube pitch×row pitch	mm	21×13.37	21×13.37	21×13.37	21×13.37
	Fin spacing	mm	1.5	1.5	1.5	1.5
	Fin type		Hydrophilic aluminum			
	Tube outside diameter and type	mm	Φ7			
			Inner groove tube			
	Length×height×width	mm	635×315×26.74			785×357×26.74
	Number of circuits		3	3	3	6
Indoor air flow (H/M/L)		m^3/h	525/480/430	590/520/480	590/520/480	860/755/630
Indoor noise level (Hi/Med/Lo)		dB(A)	35/32/29	35/32/29	35/32/29	40/38/34
Indoor unit	Dimension (W×H×D)	mm	915×290×230	915×290×230	915×290×230	1072×315×230
	Packing (W×H×D)	mm	1020×390×315	1020×390×315	1020×390×315	1180×415×315
	Net/Gross weight	kg	13/16.5	13/16.5	13/16.5	15.1/18.8
Refrigerant type			R410A			
Throttle		Type	EXV (Mechanical gear modulation, Integrated with the evaporator)			
		Model	EFM-25YGMISZ-6M-A			
Design pressure		MPa	4.4/2.6			
Refrigerant piping	Liquid side/ Gas side	mm	Φ6.35/ Φ12.7			
Connecting wiring	Power wiring	mm^2	3×2.5			
	Signal wiring	mm^2	3×0.75			
Drainage water pipe diameter			ODΦ16.5			
Controller			Wireless remote controller (RM05/BG(T)E-A) (Standard), to set address			
Operation temp.		˚C	17～30			

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

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

Model			MDV-D45G/DN1-R3	MDV-D56G/N1-R3	MDV-D56G/DN1-R3
Power supply		V- Ph-Hz	220-240V~, 1Ph, 50Hz		
Cooling	Capacity	kW	4.5	5.6	5.6
	Input	W	45	45	45
	Rated current	A	0.2	0.2	0.2
Heating	Capacity	kW	5	6.3	6.3
	Input	W	45	45	45
	Rated current	A	0.2	0.2	0.2
Electrical heating capacity		kW	0.9	-	0.9
Indoor fan motor	Model		YDK18-4	YDK18-4	YDK18-4
	Type		AC motor		
	Brand		Welling		
	Input	W	44/42/39	44/42/39	44/42/39
	Capacitor	μF	1.2	1.2	1.2
	Speed (hi/med/lo)	r/min	980/880/760	980/880/760	980/880/760
Indoor coil	Number of rows		2	2	2
	Tube pitch*row pitch	mm	21×13.37	21×13.37	21×13.37
	Fin spacing	mm	1.5	1.5	1.5
	Fin type		Hydrophilic aluminum		
	Tube outside diameter and type	mm	Φ7		
			Inner groove tube		
	Length×height×width	mm	785×357×26.74		
	Number of circuits		6	6	6
Indoor air flow (H/M/L)		m^3/h	860/755/630	925/860/755	925/860/755
Indoor noise level (Hi/Med/Lo)		dB(A)	40/38/34	40/38/34	40/38/34
Indoor unit	Dimension (W×H×D)	mm	1072×315×230	1072×315×230	1072×315×230
	Packing (W×H×D)	mm	1180×415×315	1180×415×315	1180×415×315
	Net/Gross weight	kg	15.1/18.8	15.1/18.8	15.1/18.8
Refrigerant type			R410A		
Throttle		Type	EXV (Mechanical gear modulation, integrated with the evaporator)		
		Model	EFM-25YGMISZ-6M-A		
Design pressure		MPa	4.4/2.6		
Refrigerant piping	Liquid side/ Gas side	mm	Φ6.35/ Φ12.7	Φ9.53/Φ16	
Connecting wiring	Power wiring	mm^2	3×2.5		
	Signal wiring	mm^2	3×0.75		
Drainage water pipe diameter			ODΦ16.5		
Controller			Wireless remote controller (RM05/BG(T)E-A) (Standard), to set address		
Operation temp.		℃	17～30		

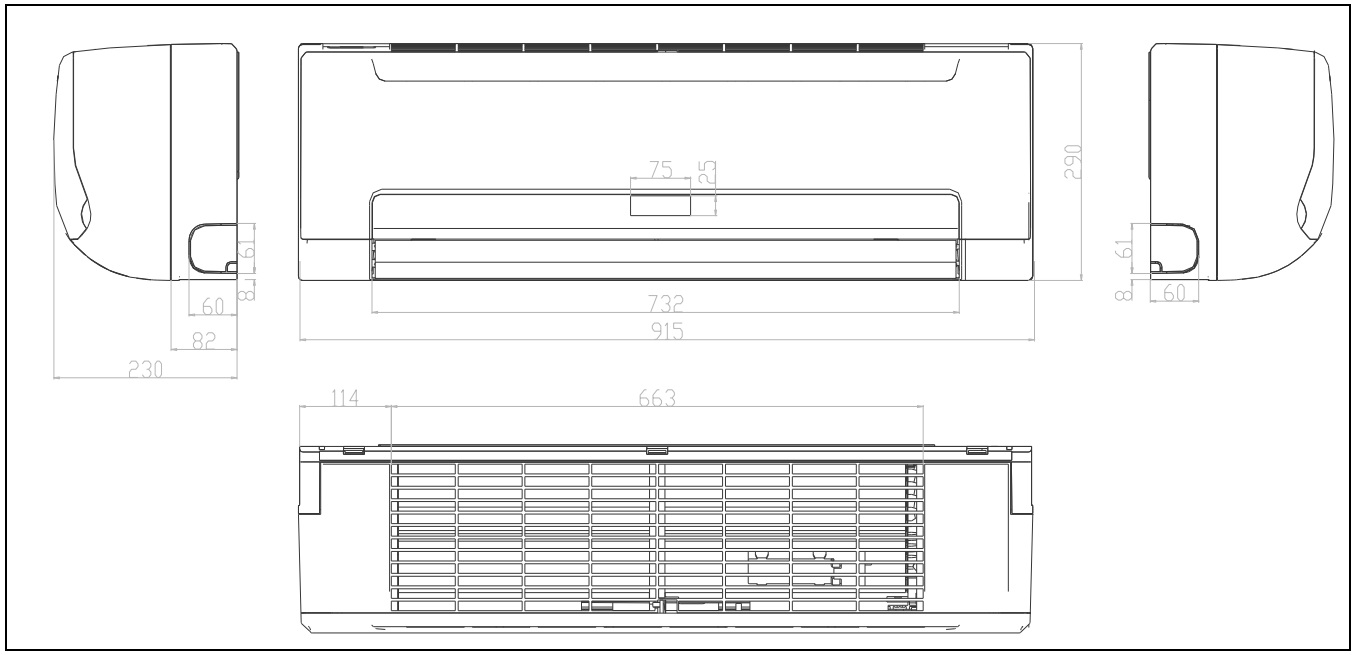
Notes: 1. Nominal cooling capacities are based on the following conditions: return air temp. : 27°CDB, 19°CWB, outdoor temp.:35°CDB,equivalent ref. Piping: 8m(horizontal)

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

3. Dimension

Outline dimension and air outlet opening size

MDV-D15G/N1-R3 MDV-D22G/N1-R3 MDV-D28G/N1-R3 MDV-D36G/N1-R3
MDV-D22G/DN1-R3 MDV-D28G/DN1-R3 MDV-D36G/DN1-R3



Main dimension:

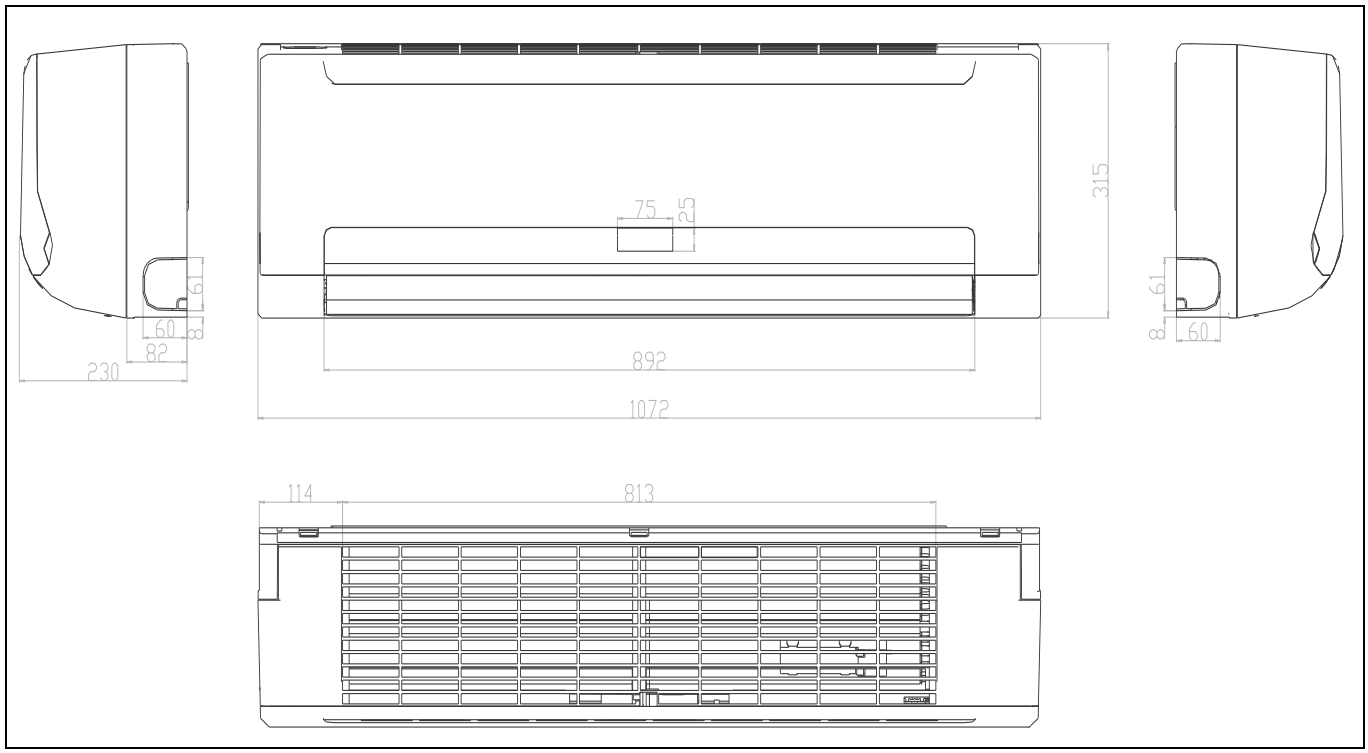
Outer Length: 915mm, Height: 290mm, Depth: 230mm

Filter length: 663mm

Gas tube: Φ12.7mm, length: Approx. 468mm

Liquid tube:Φ6.35mm,length: Approx.550mm

MDV-D45G/N1-R3 MDV-D56G/N1-R3 MDV-D45G/DN1-R3 MDV-D56G/DN1-R3



Outer Length: 1072mm, Height: 315mm, Depth: 230mm

Filter length: 813mm

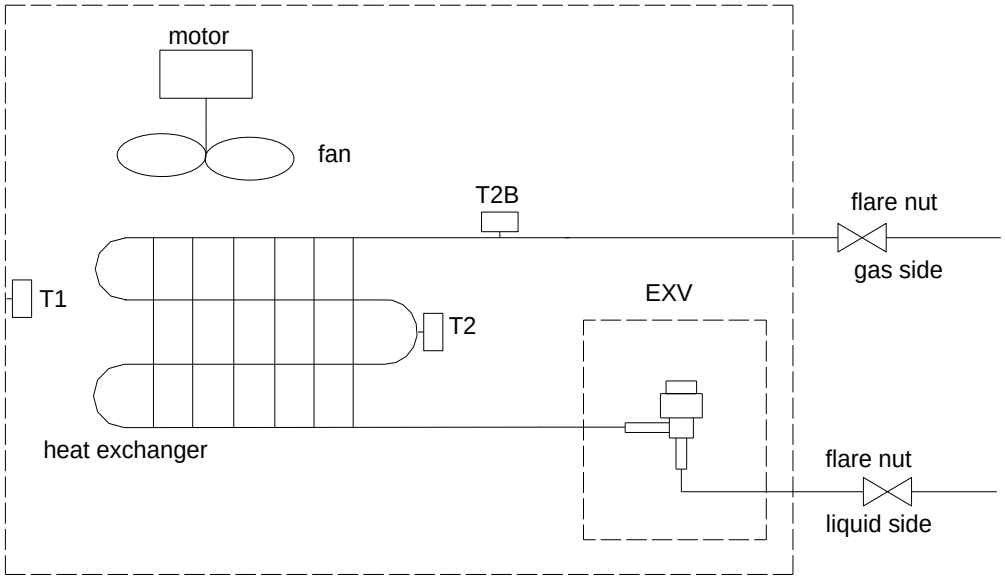
Gas tube:Φ12.7mm, length: Approx. 468mm

Liquid tube: Φ9.53 length: Approx.550mm

4. Piping Diagrams

MDV-D15G/N1-R3 MDV-D22G/N1-R3 MDV-D28G/N1-R3 MDV-D36G/N1-R3 MDV-D45G/N1-R3 MDV-D56G/N1-R3

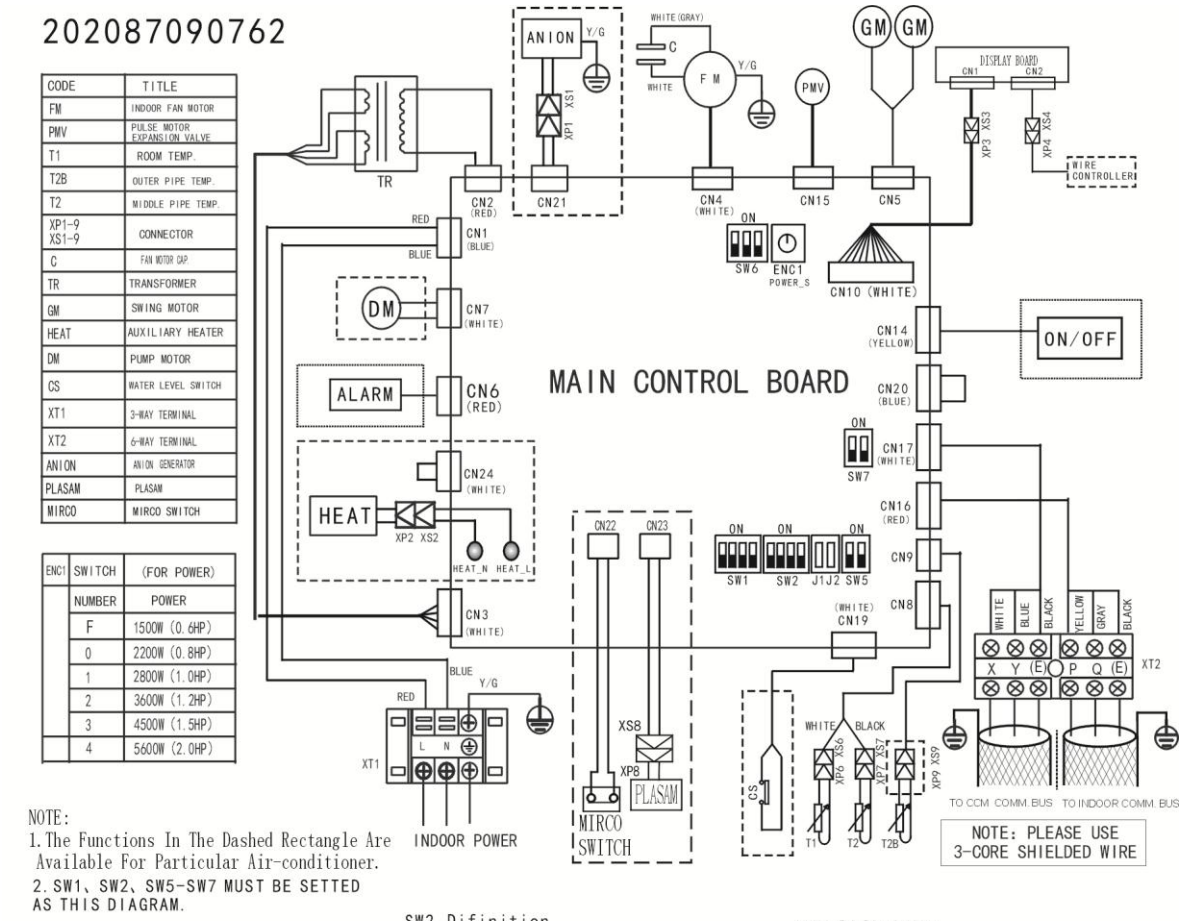
MDV-D22G/DN1-R3 MDV-D28G/DN1-R3 MDV-D36G/DN1-R3 MDV-D45G/DN1-R3 MDV-D56G/DN1-R3



5. Wiring Diagram

MDV-D15G/N1-R3 MDV-D22G/N1-R3 MDV-D28G/N1-R3 MDV-D36G/N1-R3 MDV-D45G/N1-R3 MDV-D56G/N1-R3

MDV-D22G/DN1-R3 MDV-D28G/DN1-R3 MDV-D36G/DN1-R3 MDV-D45G/DN1-R3 MDV-D56G/DN1-R3



CODE	TITLE
FM	INDOOR FAN MOTOR
PMV	PULSE MOTOR EXPANSION VALVE
T1	ROOM TEMP.
T2B	OUTER PIPE TEMP.
T2	MIDDLE PIPE TEMP.
XP1-9 XS1-9	CONNECTOR
C	FAN MOTOR CAP
TR	TRANSFORMER
GM	SWING MOTOR
HEAT	AUXILIARY HEATER
DM	PUMP MOTOR
CS	WATER LEVEL SWITCH
XT1	3-WAY TERMINAL
XT2	6-WAY TERMINAL
ANION	ANION GENERATOR
PLASAM	PLASAM
MIRCO	MIRCO SWITCH

ENC1 SWITCH	(FOR POWER)
NUMBER	POWER
F	1500W (0.6HP)
0	2200W (0.8HP)
1	2800W (1.0HP)
2	3600W (1.2HP)
3	4500W (1.5HP)
4	5600W (2.0HP)

NOTE:
1. The Functions In The Dashed Rectangle Are Available For Particular Air-conditioner.
2. SW1、SW2、SW5-SW7 MUST BE SETTED AS THIS DIAGRAM.

SW1 Difinition

SW1 ON 1234	●1 means factory test mode ●0 means auto addressing mode (default setting)
SW1 ON 1234	●1 means DC fan is chosen ●0 means AC fan is chosen
SW1 ON 1234	●00 means DC fan static pressure is 0 (reserved)
SW1 ON 1234	●01 means DC fan static pressure is 1 (reserved)
SW1 ON 1234	●10 means DC fan static pressure is 2 (reserved)
SW1 ON 1234	●11 means DC fan static pressure is 3 (reserved)

J1J2 Difinition

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

SW2 Difinition

SW2 ON 1234	●00 means shutting down the unit to "stop cold air" at 15℃
SW2 ON 1234	●01 means shutting down the unit to "stop cold air" at 20℃
SW2 ON 1234	●10 means shutting down the unit to "stop cold air" at 24℃
SW2 ON 1234	●11 means shutting down the unit to "stop cold air" at 26℃
SW2 ON 1234	●00 means the time of stopping TERMAL fan is 4 mintues
SW2 ON 1234	●01 means the time of stopping TERMAL fan is 8 mintues
SW2 ON 1234	●10 means the time of stopping TERMAL fan is 12 mintues
SW2 ON 1234	●11 means the time of stopping TERMAL fan is 16 mintues

SW5 Difinition

SW5 ON 1 2	●00 means temp. compensation value is 6℃ under heat mode
SW5 ON 1 2	●01 means temp. compensation value is 2℃ under heat mode
SW5 ON 1 2	●10 means temp. compensation value is 4℃ under heat mode
SW5 ON 1 2	●11 means temp. compensation value is 8℃ under heat mode

SW6 Difinition

SW6 ON 1 2 3	●1 means old display penal ●0 means new display penal
SW6 ON 1 2 3	●1 means auto air blow under auto mode ●0 means auto air blow under non-auto mode
SW6 ON 1 2 3	● reserved

SW7 Difinition

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

0/1 Difinition

ON	● means 0
ON	● means 1

Note:

1.Power supply of ALARM port is the same with indoor unit. The wire between the alarm port CN6 and alarm element should be customized.

2.ON/OFF port doesn't need power supply. When the port is in short circuit condition, indoor units will stop running and can not be controlled by the controller. When the port is in disconnect condition, the indoor units will be in normal state. The wire should be customized and within one meter length.

6. Capacity Tables

6.1 Cooling **TC**: total capacity **SC**: sensible capacity

WB: wet-bulb temperature **DB**: dry-bulb temperature

Indoor Unit size (kW)	Outdoor temperature (℃DB)	Indoor temperature (℃WB/DB)													
		14/20		16/23		18/26		19/27		20/28		22/30		24/32	
		TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC	TC	SC
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
1.5	10.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.8	1.1	2.0	1.1
	12.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.8	1.1	1.9	1.0
	14.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.8	1.1	1.9	1.0
	16.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.8	1.1	1.9	1.0
	18.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.8	1.1	1.9	1.0
	20.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.8	1.1	1.8	1.0
	21.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.8	1.1	1.8	1.0
	23.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.7	1.0	1.8	1.0
	25.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.7	1.0	1.8	0.9
	27.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.7	1.0	1.8	0.9
	29.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.7	1.0	1.7	0.9
	31.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.7	1.0	1.7	0.9
	33.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.7	1.0	1.7	1.0
	35.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.6	0.9	1.7	1.0
	37.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.6	1.1	1.6	0.9	1.6	0.9
	39.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.5	1.0	1.6	0.9	1.6	0.9
	42.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.5	1.0	1.6	0.9	1.6	0.9
	44.0	1.0	0.9	1.2	0.9	1.4	1.0	1.5	1.0	1.5	1.0	1.6	0.9	1.6	0.9
	46.0	1.0	0.9	1.2	1.0	1.4	1.0	1.5	1.0	1.5	1.0	1.6	0.9	1.6	0.9
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
	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
	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
4.5	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
	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
5.6	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

6.2 Heating

TC: total capacity **WB**: wet-bulb temperature **DB**: dry-bulb temperature

Indoor Unit size (kW)	Outdoor temperature (℃)		Indoor temperature (℃DB)					
			16.00	18.00	20.00	21.00	22.00	24.00
			TC	TC	TC	TC	TC	TC
	WB	DB	kW	kW	kW	kW	kW	kW
1.5	-19.8	-20	0.95	0.95	0.95	0.95	0.95	0.95
	-18.8	-19	1.02	1.02	1.02	1.02	1.02	1.02
	-16.7	-17	1.07	1.07	1.07	1.07	1.07	1.07
	-13.7	-15	1.11	1.11	1.11	1.11	1.11	1.11
	-11.8	-13	1.17	1.17	1.17	1.17	1.17	1.17
	-9.8	-11	1.19	1.21	1.21	1.21	1.21	1.21
	-9.5	-10	1.24	1.24	1.24	1.24	1.24	1.24
	-8.5	-9.1	1.28	1.28	1.28	1.28	1.28	1.28
	-7	-7.6	1.29	1.29	1.29	1.29	1.29	1.29
	-5	-5.6	1.34	1.34	1.34	1.34	1.34	1.34
	-3	-3.7	1.41	1.41	1.41	1.41	1.41	1.41
	0	-0.7	1.51	1.51	1.51	1.51	1.51	1.43
	3	2.2	1.60	1.60	1.60	1.60	1.56	1.43
	5	4.1	1.65	1.65	1.65	1.65	1.56	1.43
	7	6	1.70	1.70	1.70	1.65	1.56	1.43
	9	7.9	1.75	1.75	1.70	1.65	1.56	1.43
	11	9.8	1.80	1.80	1.70	1.65	1.56	1.43
	13	11.8	1.87	1.84	1.70	1.65	1.56	1.43
	15	13.7	1.92	1.84	1.70	1.65	1.56	1.43
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
	-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

Note: The above table is only the heat pump heating capacity, for the type with Electrical heater, the total capacity should plus the additional electrical heating capacity, which is a constant data.

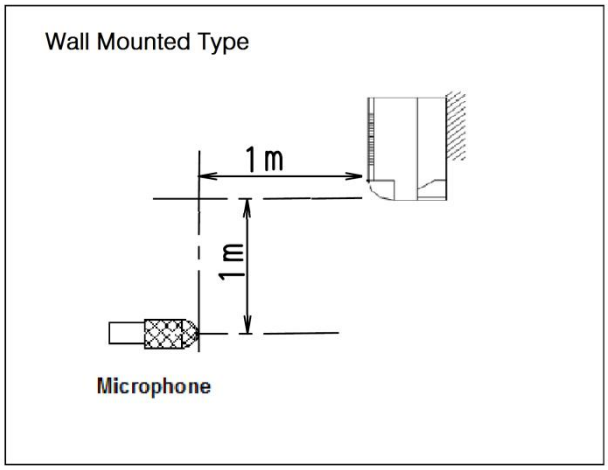
7. Electric Characteristics

Model	Indoor Unit				Power Supply		IFM	
	Hz	Voltage	Min.	Max.	MCA	MFA	KW	FLA
MDV-D15G/N1-R3	50	220-240V	198	254	0.125	5	0.009	0.1
MDV-D22G/N1-R3	50	220-240V	198	254	0.3	5	0.013	0.225
MDV-D28G/N1-R3	50	220-240V	198	254	0.3	5	0.013	0.225
MDV-D36G/N1-R3	50	220-240V	198	254	0.3	5	0.013	0.225
MDV-D45G/N1-R3	50	220-240V	198	254	0.3	5	0.028	0.24
MDV-D56G/N1-R3	50	220-240V	198	254	0.3	5	0.028	0.24
MDV-D22G/DN1-R3	50	220-240V	198	254	3.6	5	0.013	0.225
MDV-D28G/DN1-R3	50	220-240V	198	254	3.6	5	0.013	0.225
MDV-D36G/DN1-R3	50	220-240V	198	254	3.6	5	0.013	0.225
MDV-D45G/DN1-R3	50	220-240V	198	254	4.3	5	0.028	0.24
MDV-D56G/DN1-R3	50	220-240V	198	254	4.3	5	0.028	0.24

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

8. Noise Levels

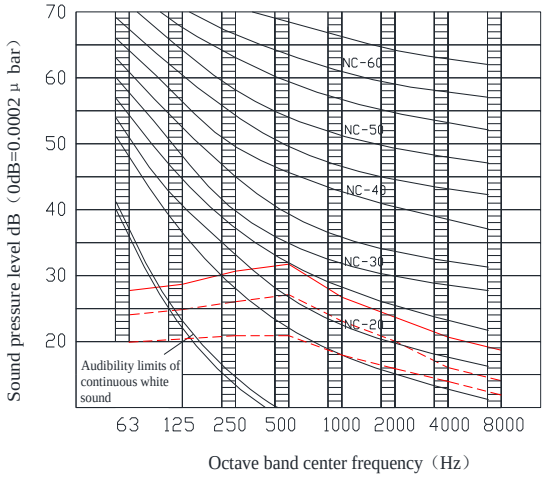
8.1 Test condition



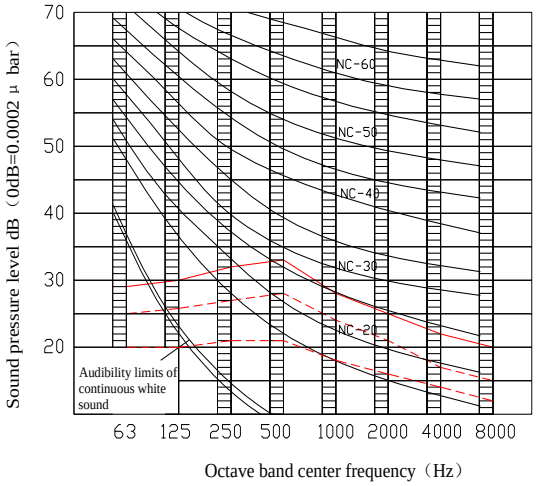
8.2 Test value

Model	Noise test value dB(A)		
	Hi	Mid	Low
MDV-D15G/N1-R3	33	31	28
MDV-D22G/(D)N1-R3	35	32	29
MDV-D28G/(D)N1-R3	35	32	29
MDV-D36G/(D)N1-R3	35	32	29
MDV-D45G/(D)N1-R3	40	38	34
MDV-D56G/(D)N1-R3	40	38	34

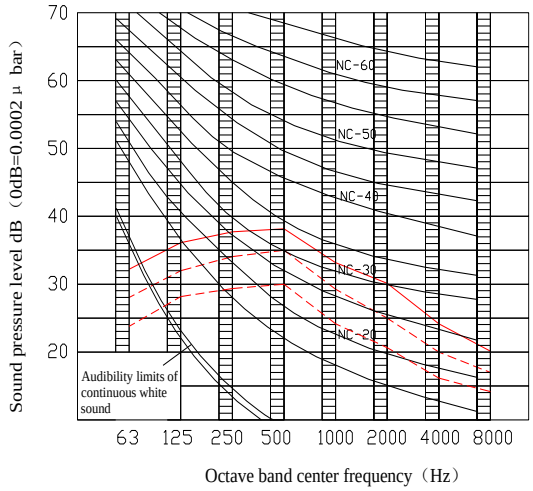
MDV-D15G/N1-R3



MDV-D22(28/36)G/(D)N1-R3

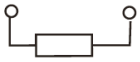


MDV-D45G/(D)N1-R3 MDV-D56G/(D)N1-R3



9. Accessories

9.1 Standard accessories

Name	Quantity	Shape	Usage
Installation manual	1	/	/
Pipe insulation material	2		Heat insulation
Remote controller	1		/
7# alkaline battery	2		/
Holder for remote controller	1		Hold the remote controller
Remoter controller manual	1		—
Mounting screw(ST2.9 10-C-H)	2		Installation Holder for remote controller
Controlling discreteness installation plot	1	—	—
Installation spring	2		Fix water outlet
Water outlet joint	1		For drainage
Wrapping tape	1		
Plastic expanded tube	3		
Screw ST3.9×25 for installation board	3		Secure the installation board
Network matching wire	1		The indoor unit which at the terminal of communication system should connect a impedance between port P and port Q.

9.2 Optional accessories

Name	Model	Code	Usage
Wired controller	**KJR-10B/DP(T)-E**	**203355190000**	With a standard 5m long cable to connect to display board.
(Follow me) Wired controller	**KJR-12B/DP(T)-E**	**203355100010**	With an extra Built-in room temp. sensor, all others are same as KJR-10B
Touch-style Key Wired Controller	**KJR-29B/BK-E**	**203355100699**	Air filter cleaning remind function，Follow me function，Indoor unit address setting function