

# Selection Procedure (Based on Cooling Load)

<b>1. Introduction .....</b>	<b>248</b>
<b>2. Unit selection (Based on cooling load) .....</b>	<b>249</b>

## 1. Introduction

5 basic modules, which can be freely assembled.

2HP increments of capacity range, which meets customer's needs accurately.

Maximum capacity is 64HP, the maximum capacity in air-conditioner refrigeration industry.

**Note:** when in project designing, it should never reach all the operating limit of the MDV system at the same time; otherwise we don't response to the claim for poor performance of the system.

For example:

The status of installation in your project: the total capacity of indoor units is as 130% as total capacity of outdoor units, the longest pipe between indoor unit and outdoor unit reaches 175m, the height difference between indoor unit and outdoor unit reaches 70m.

It can't guarantee each indoor unit has normal capacity:

- a) when all the indoor units operate simultaneously;
- b) when the outdoor ambient temperature is very bad.

**2. Unit selection (Based on cooling load)**

**2.1 Indoor unit selection**

**2.1.1** After calculated the heat load of rooms, please select the nearest load capacity of indoor units with given load according to the local weather parameter, area, cubage and structure of rooms.

**2.1.1** Selecting the proper indoor units including the type of indoor units (Such as the four way cassette, duct and so on).

**2.1.3** Pay attention to the requirements of customers and local corresponding design standards.

**CAUTION:** The described capacity may be different from each indoor unit according to combination. So the real capacity should be calculated with outdoor unit capacity table.

**2.2 Outdoor unit selection**

The allowable combination is described on the indoor combination total capacity index table.

For the standard of the indoor unit and outdoor unit combination, select the nearest value that the total indoor unit capacity index is less than 130% outdoor unit capacity index.

Indoor unit combination total capacity index (kW)

Outdoor Unit	Indoor unit combination						
	130%	100%	90%	80%	70%	60%	50%
MDVi-252 (8)W/DSN1	32.8	25.2	22.7	20.1	17.6	15.1	12.6
MDVi-280 (10)W/ DSN1	36.4	28.0	25.2	22.4	19.6	16.8	14.0
MDVi-335(12)W/ DSN1	43.6	33.5	30.2	26.8	23.5	20.2	16.8
MDVi-400(14)W/ DSN1	52.0	40.0	36.0	32.0	28.0	24.0	20.0
MDVi-450(16)W/ DSN1	58.5	45.0	40.5	36.0	31.5	27.0	22.5

**Indoor unit capacity index**

Unit size	22	28	36	45	56	71	80	90	112	140	280
Capacity index (kW)	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0	11.2	14.0	28.0

**2.3 Real function data**

**2.3.1** Select the exact table according to outdoor unit model and combination rate using outdoor unit capacity table. According to given indoor and outdoor temperature, find outdoor unit capacity and power input using the table. Each indoor unit capacity (Power input) is calculated as follows:

$$IUC=OUC \times INX/TNX$$

IUC: Each indoor unit capacity

OUC: Outdoors unit capacity

INX: Each indoor unit capacity index

TNX: Total capacity index

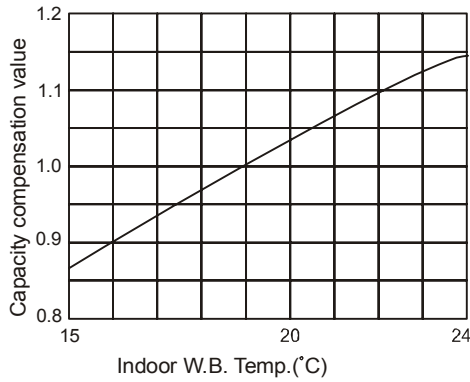
**2.3.2** According to different pipe lengths and height difference, the indoor unit capacity will change accordingly. If the changed capacity is smaller than load, replace it with a larger capacity indoor unit and repeat the selecting progress.

**2.4 Variation in capacity in accordance with the length of refrigerant pipe**

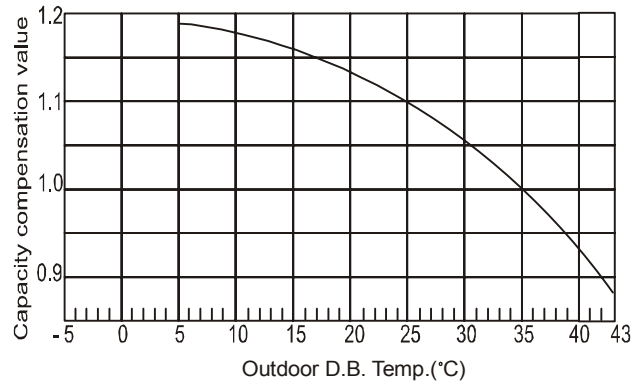
**2.4.1** Cooling capacity modification

$$\text{Effectual cooling capacity}=\text{Rated cooling capacity} \times \text{Modification coefficient } (\textcircled{1} \times \textcircled{2} \times \textcircled{3} \times \textcircled{4})$$

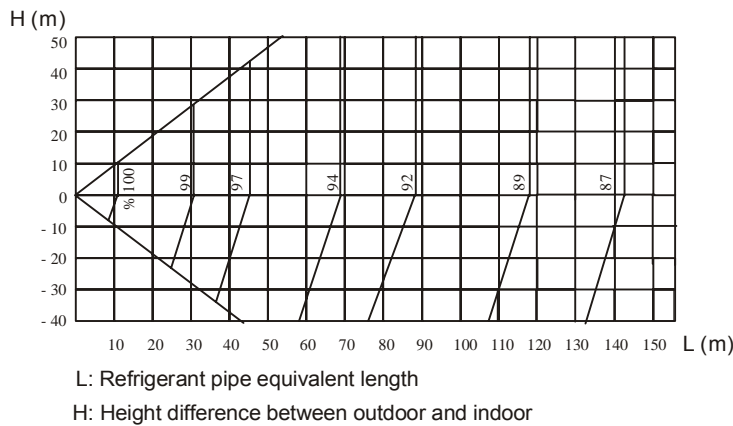
2.4.1.1 Modification coefficient of indoor W.B. temperature



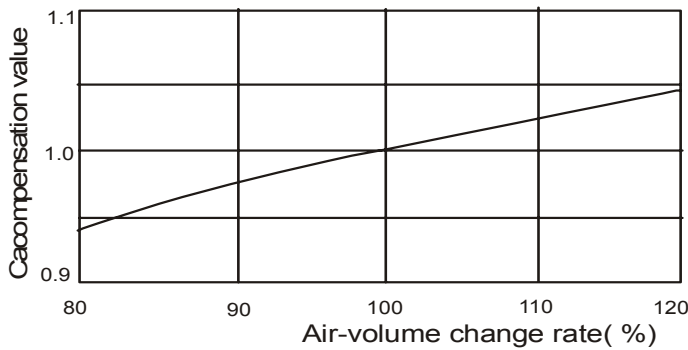
2.4.1.2 modification coefficient of outdoor D.B. temperature



2.4.1.3 Modification coefficient of the length and high difference of refrigerant pipe:



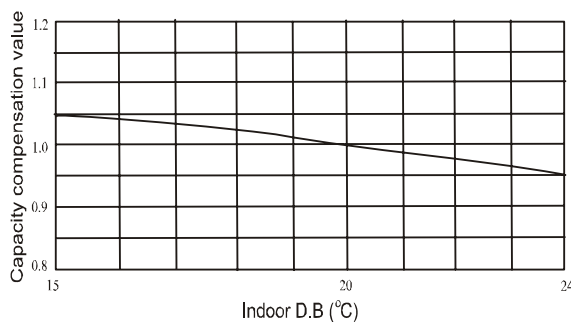
2.4.1.4 Modification coefficient of indoor air-volume changing rate:



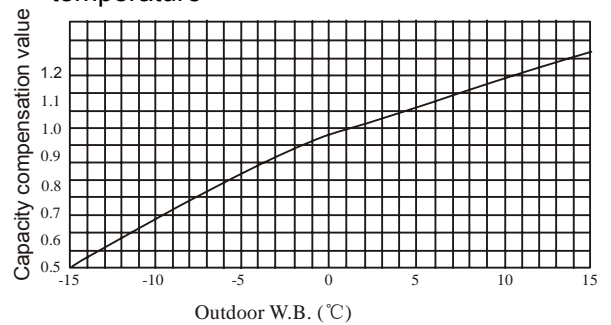
2.4.2 Heating capacity modification

Effectual heating capacity = Rated heating capacity × Modification coefficient (①×②×③×④)

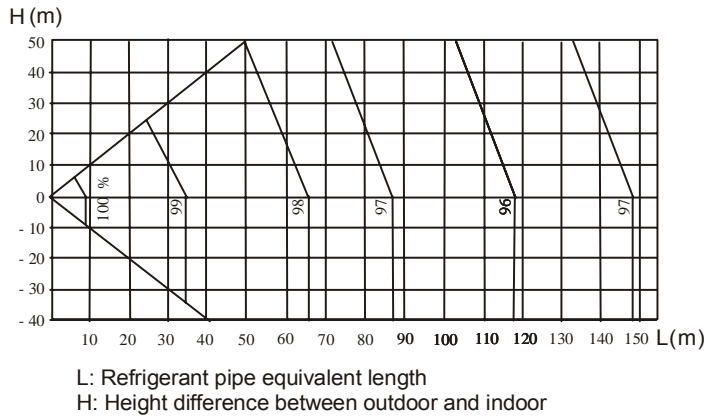
2.4.2.1 Modification coefficient of indoor W.B. temperature



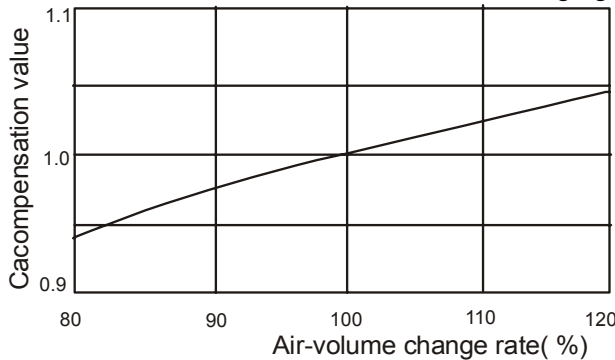
2.4.2.2 modification coefficient of outdoor D.B. temperature



2.4.2.3 Modification coefficient of the length and high difference of refrigerant pipe:



2.4.2.4 Modification coefficient of indoor air-volume changing rate:



2.5 Example for unit selection with cooling load

2.5.1 Given condition

2.5.1.1 Design condition (Cooling: Indoor 20°C (WB), Outdoor 35°C (DB))

2.5.1.2 Cooling load

Location	Room A	Room B	Room C	Room D	Room E	Room F
Load (kW)	2.1	2.8	3.5	4.6	5.8	7.2

2.5.1.3 Power supply unit: Outdoor 3 Phase 380V 50Hz, Indoor 1 Phase 220V 50Hz

2.5.1.4 Pipe length: 50m

2.5.1.5 Height difference: 30m

2.5.2 Indoor unit selection

Select the suitable capacity for condition of 'Indoor 20°C (WB), Outdoor 35°C (DB)' using indoor unit capacity table. The selected result is as follows. (Assuming the indoor unit type is duct)

Location	Room A	Room B	Room C	Room D	Room E	Room F
Load (kW)	2.1	2.8	3.5	4.6	5.8	7.2
Unit size	22	28	36	45	56	71
Capacity (kW)	2.5	3.1	3.9	4.9	6.0	7.6

2.5.3 Outdoor unit selection

2.5.3.1 Assume the indoor unit and outdoor unit combination as follows

2.5.3.1.1 Calculate the total nominal capacity of indoor units in the combination according to the above table:

$$2.2 \times 1 + 2.8 \times 1 + 3.6 \times 1 + 4.5 \times 1 + 5.6 \times 1 + 7.1 \times 1 = 25.8\text{KW}$$

2.5.3.1.2 Select outdoor unit: MDV-280W/ DSN1 which has nominal cooling capacity: 28kW.

Calculate the proportion between ① and ②:  $25.8/28 = 92\%$

2.5.3.2 Result : Because the proportion is within 50~130%, it is a "Right" selection.

2.5.3.3 Real function data with indoor unit combination

- For the 92% combination, calculate the cooling capacity of outdoor unit (MDVi-280(10)W/ DSN1).  
 26.73kW ←90 % (Indoor temperature: WB 20°C, Outdoor temperature: DB 35°C)  
 28.30kW ←100 % (Indoor temperature: WB 20°C, Outdoor temperature: DB 35°C)  
 Then calculated the outdoor capacity in 92% combination index:  
 Therefore:  $26.73 + \{(28.30 - 26.73) / 10\} \times 2 = 27.04$ ;
- Outdoor unit (MDVi-280(10)W/ DSN1) cooling temperature: DB 35°C
- Capacity modification coefficient with pipe length (50m) and height difference (30m): 0.958
- Each indoor unit cooling capacity  
 MDVi-D22T2:  $27.04 \times 22/258 \times 0.958 = 2.21$ (kW)  
 MDVi-D28T2:  $27.04 \times 28/258 \times 0.958 = 2.81$  (kW)  
 MDVi-D36T2:  $27.04 \times 36/258 \times 0.958 = 3.61$  (kW)  
 MDVi-D45T2:  $27.04 \times 45/258 \times 0.958 = 4.52$  (kW)  
 MDVi-D56T2:  $27.04 \times 56/258 \times 0.958 = 5.62$  (kW)  
 MDVi-D71T2:  $27.04 \times 71/258 \times 0.958 = 7.13$  (kW)

Location	Room A	Room B	Room C	Room D	Room E	Room F
Load (KW)	2.1	2.8	3.5	4.6	5.8	7.2
Unit size	22	28	36	45	56	71
Capacity (KW)	2.21	2.81	3.61	4.52	5.62	7.13

**2.5.4 Conclusion:** Generally, we think this result is acceptable, so we can think we have accomplished the calculation. But if you think this result is not acceptable, you can repeat the over process.

**Remark:** In this sample, we don't consider the other capacity modification index and assume them is 1.

# Part 3

## Outdoor Units

<b>1. Specifications</b> .....	<b>254</b>
<b>2. Dimensions</b> .....	<b>256</b>
<b>3. Service Space</b> .....	<b>258</b>
<b>4. Piping Diagram</b> .....	<b>262</b>
<b>5. Wiring Diagram</b> .....	<b>264</b>
<b>6. Field Wiring</b> .....	<b>265</b>
<b>7. Electric Characteristics</b> .....	<b>271</b>
<b>8. Capacity Tables</b> .....	<b>275</b>
<b>9. Operation Limits</b> .....	<b>320</b>
<b>10. Sound Levels</b> .....	<b>321</b>
<b>11. Exploded View</b> .....	<b>322</b>
<b>12. Troubleshooting</b> .....	<b>337</b>

# 1. Specifications

Model			MDVi-252(8)W/DSN1	MDVi-280(10)W/DSN1	MDVi-335(12)W/DSN1	
Power supply		V-Ph-Hz	380-50-3	380-50-3	380-50-3	
Cooling	Capacity	kW	25.2	28	33.5	
	Input	kW	6.07	7.73	9.88	
	Rated current	A	10.3	13.1	16.7	
Heating	Capacity	kW	27	31.5	37.5	
	Input	kW	6.21	7.72	9.1	
	Rated current	A	10.5	13	15.3	
Max. input consumption		W	14500	14500	14500	
Max. current		A	24.5	24.5	24.5	
Compressor quantity			1+1	1+1	1+1	
Compressor	Model		E405DHD-38D2Y	E405DHD-38D2Y	E405DHD-38D2Y	
	Type		DC Inverter compressor			
	Brand		Hitachi	Hitachi	Hitachi	
	Capacity	W	12400	12400	12400	
	Input	W	3880	3880	3880	
	Rated current(RLA)	A	9.4	9.4	9.4	
	Thermal protector		Inner protect	Inner protect	Inner protect	
	Refrigerant oil	ml	FVC68D / 500ml	FVC68D / 500ml	FVC68D / 500ml	
Compressor	Model		E505DH-49D2Y(GC)	E605DH-59D2Y(GC)	E605DH-59D2Y(GC)	
	Type		Fixed Scroll compressor	Fixed Scroll compressor	Fixed Scroll compressor	
	Brand		Hitachi	Hitachi	Hitachi	
	Capacity	W	12900	15390	15390	
	Input	W	4270	5130	5130	
	Rated current(RLA)	A	7.3	8.8	8.8	
	Thermal protector		Inner protect	Inner protect	Inner protect	
	Refrigerant oil	ml	FVC68D / 500ml	FVC68D / 500ml	FVC68D / 500ml	
Outdoor fan motor	Model		YDK400-8A	YDK400-8A	YDK350-6A (×2)	
	Brand		Yongan	Yongan	Welling	
	Input	W	647/460	647/460	575/385 (×2)	
	Capacitor	uF	25	25	20(×2)	
	Speed	r/min	670/540	670/540	760/540 (×2)	
Outdoor coil	Number of rows		2	2	2	
	Tube pitch(a)x row pitch(b)	mm	25.4x22	25.4x22	25.4x22	
	Fin spacing	mm	1.5	1.5	1.7	
	Fin type (code)		hydrophilic aluminium	hydrophilic aluminium	hydrophilic aluminium	
	Tube outside dia. and type	mm		Φ9.5	Φ9.5	Φ9.5
				innergroove tube	innergroove tube	innergroove tube
	Coil length x height x width	mm	1970×1118×44	1970×1118×44	2223×1219×44	
Number of circuits		22	22	24		
Outdoor air flow	m <sup>3</sup> /h	12500	12500	6500×2		
Outdoor noise level(Sound pressure)	dB(A)	57	57	58		
Outdoor unit	Dimension(W×H×D)	mm	980×800×1615	980×800×1615	1380×830×1630	
	Packing (W×H×D)	mm	1045×865×1790	1045×865×1790	1450×900×1790	
	Net/Gross weight	kg	300/320	300/320	330/350	
Refrigerant type	g	R410A/11000g	R410A/11000g	R410A/13000g		
Throttle type		Electric expansive valve				
Design pressure	MPa	4.2/2.0	4.2/2.0	4.2/2.0		
Refrigerant piping	Liquid side/ Gas side	mm	Φ12.7/Φ22.2	Φ12.7/Φ25.4	Φ12.7/Φ25.4	
	Oil balance pipe	mm	Φ6.4	Φ6.4	Φ6.4	
	Gas balance pipe	mm	Φ19.1	Φ19.1	Φ19.1	
	Max. refrigerant pipe length	m	175	175	175	
	Max. difference between indoor units	m	15	15	15	
	Max. difference between outdoor unit and indoor unit	m	70	70	70	
Connection wiring	Power wiring	N×mm <sup>2</sup>	4×16(L≤29m); 4×25(L≤46m); 4×35(L≤78m)			
	Signal wiring	N×mm <sup>2</sup>	3×1.0	3×1.0	3×1.0	
Operation temp	°C	Cooling:≥17°C; Heating:≤30°C				
Ambient temp	°C	Cooling:-5°C—48°C; Heating:-15°C—27°C				
Application area	m <sup>2</sup>	101~168	112~187	134~223		

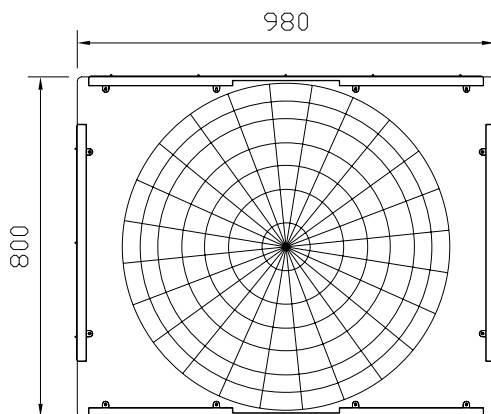
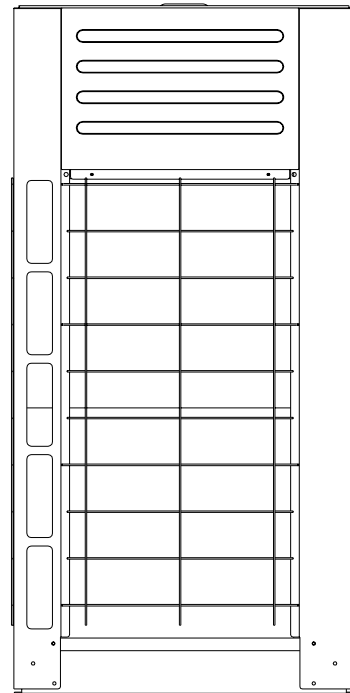
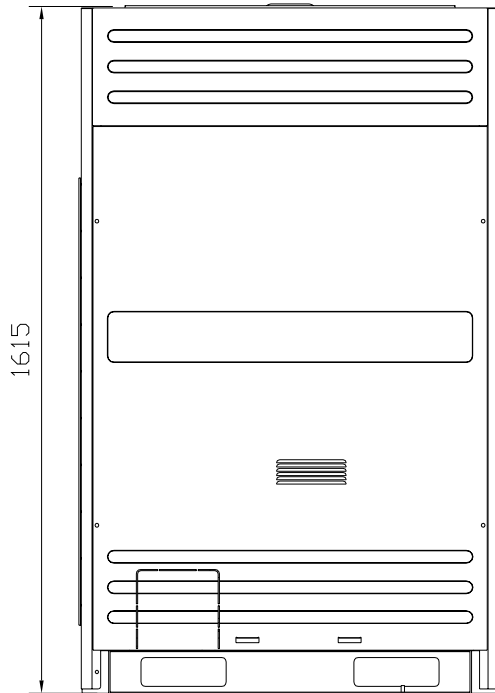


Model			MDVi-400(14)W/DSN1	MDVi-450(16)W/DSN1	
Power supply		V-Ph-Hz	380-50-3	380-50-3	
Cooling	Capacity	kW	40	45	
	Input	kW	12.26	14.05	
	Rated current	A	20.7	23.7	
Heating	Capacity	kW	45	50	
	Input	kW	11.18	12.6	
	Rated current	A	18.9	21.3	
Max. input consumption		W	20700	20700	
Max. current		A	33	33	
Compressor quantity			1+2	1+2	
Compressor	Model		E405DHD-38D2Y	E405DHD-38D2Y	
	Type		DC Inverter compressor	DC Inverter compressor	
	Brand		Hitachi	Hitachi	
	Capacity	W	12400	12400	
	Input	W	3880	3880	
	Rated current(RLA)	A	9.4	9.4	
	Thermal protector		Inner protect	Inner protect	
	Refrigerant oil	ml	FVC68D / 500ml	FVC68D / 500ml	
Compressor	Model		E505DH-49D2Y(GC)	E605DH-59D2Y(GC)	
	Type		Fixed Scroll compressor	Fixed Scroll compressor	
	Brand		Hitachi	Hitachi	
	Capacity	W	12900	15390	
	Input	W	4270	5130	
	Rated current(RLA)	A	7.3	8.8	
	Thermal protector		Inner protect	Inner protect	
	Refrigerant oil	ml	FVC68D / 500ml	FVC68D / 500ml	
Outdoor motor fan	Model		YDK450-6A (×2)	YDK450-6A (×2)	
	Brand		Welling	Welling	
	Input	W	720/420(×2)	720/420(×2)	
	Capacitor	uF	20(×2)	20(×2)	
	Speed	r/min	810/530(×2)	810/530(×2)	
Outdoor coil	Number of rows		3	3	
	Tube pitch(a)x row pitch(b)	mm	25.4x22	25.4x22	
	Fin spacing	mm	1.7	1.7	
	Fin type (code)		hydrophilic aluminium	hydrophilic aluminium	
	Tube outside dia.and type	mm		9.53	9.53
				innergroove tube	innergroove tube
	Coil length x height x width	mm	2170×609.6×66	2170×609.6×66	
Number of circuits		24	24		
Outdoor air flow		m <sup>3</sup> /h	7000×2	7000×2	
Outdoor noise level(Sound pressure)		dB(A)	60	60	
Outdoor unit	Dimension(W×H×D)	mm	1380×830×1630	1380×830×1630	
	Packing (W×H×D)	mm	1450×900×1790	1450×900×1790	
	Net/Gross weight	kg	400/420	400/420	
Refrigerant type		g	R410A/16000g	R410A/16000g	
Throttle type			Electric expansive valve		
Design pressure		MPa	4.2/2.0	4.2/2.0	
Refrigerant piping	Liquid side/ Gas side	mm	Φ15.9/Φ31.8	Φ15.9/Φ31.8	
	Oil balance pipe	mm	Φ6.4	Φ6.4	
	Gas balance pipe	mm	Φ19.1	Φ19.1	
	Max. refrigerant pipe length	m	175	175	
	Max. difference between indoor units	m	15	15	
	Max. difference between outdoor unit and indoor unit	m	70	70	
Connection wiring	Power wiring	N×mm <sup>2</sup>	4×16(L≤29m); 4×25(L≤46m); 4×35(L≤78m)		
	Signal wiring	N×mm <sup>2</sup>	3×1.0	3×1.0	
Operation temp		°C	Cooling:≥17°C; Heating:≤30°C		
Ambient temp		°C	Cooling:-5°C—48°C; Heating:-15°C—27°C		
Application area		m2	160~267	180~300	

## 2. Dimensions

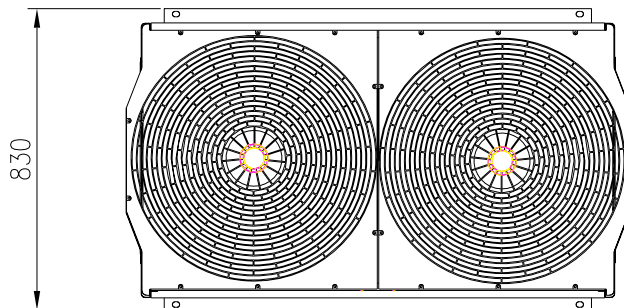
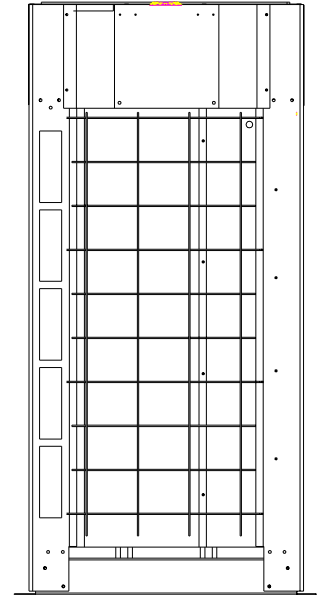
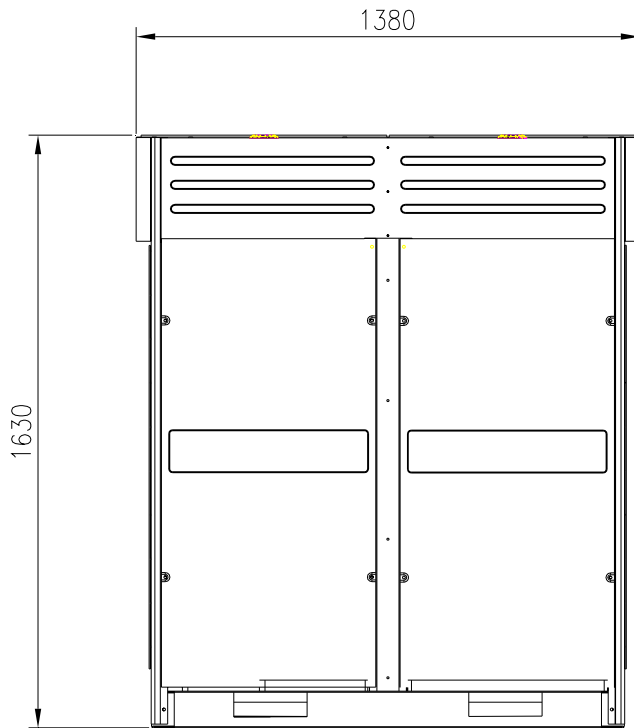
### 2.1 MDVi-252(8)W/DSN1 MDVi-280(10)W/DSN1

(Unit: mm)



2.2 MDiV-335(12)W/DSN1 MDVi-400(4)W/DSN1 MDVi-450(16)W/DSN1

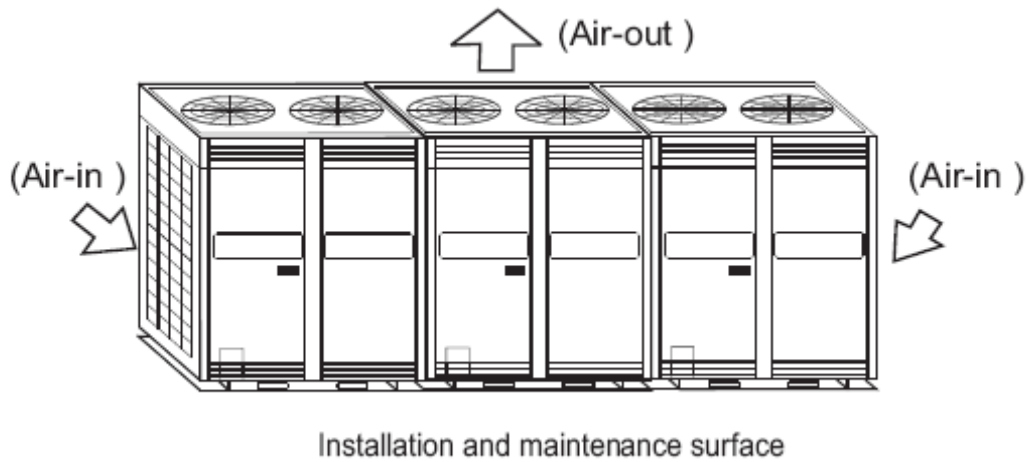
(Unit: mm)



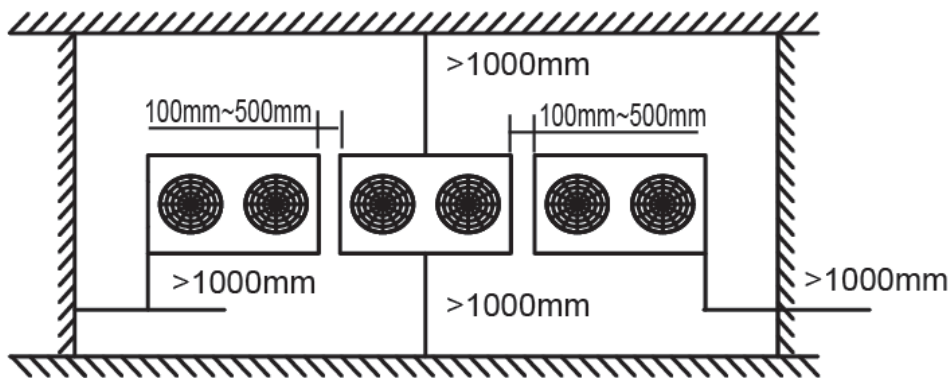
### 3. Service Space

**3.1** Power supply equipment is preferred to be installed by the side of the outdoor unit;

**3.2** Ensure there is sufficient space for the maintenance of the outdoor unit. The modules in the same system must be on the same height.



**3.3** Proper space between outdoor units should be kept;

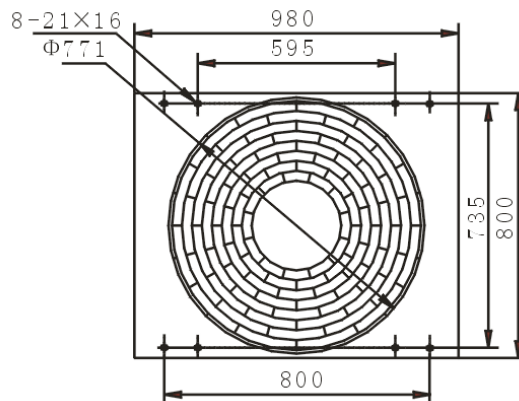


Top view of the outdoor unit

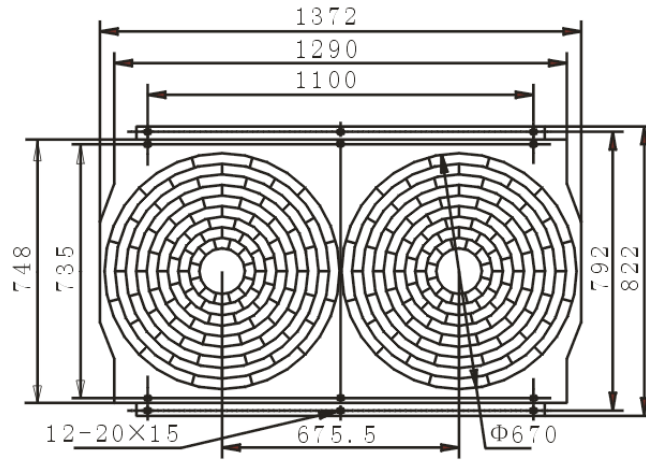
**3.4** Distance between ground bolt is shown below: (Note: Outdoor units in the same system should be located in the same level.)

(Unit: mm)

MDV-252(8)W/DSN1 MDV-280(10)W/DSN1

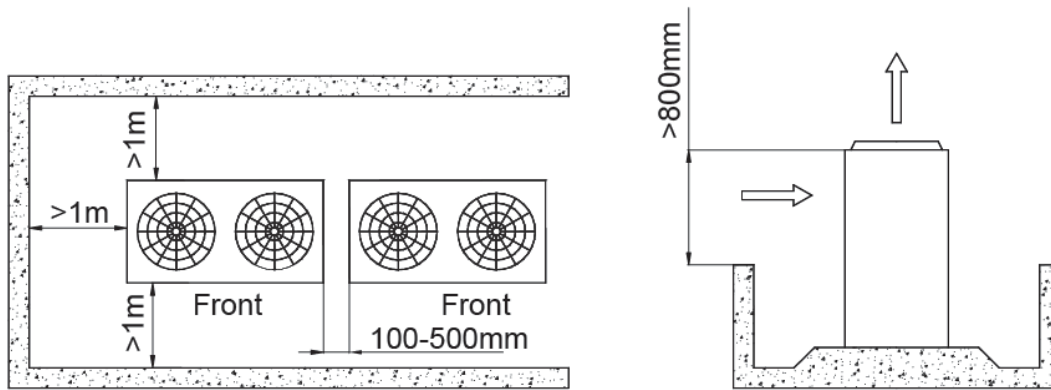


MDV-335(12)W/DSN1 MDV-400(14)W/DSN1 MDV-450(16)W/DSN1

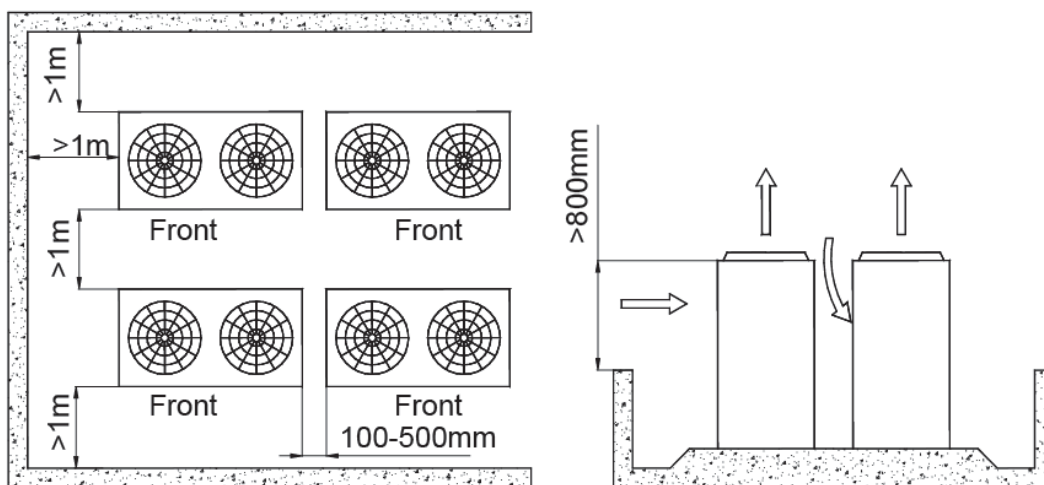


**3.5 Outdoor unit arrangement**

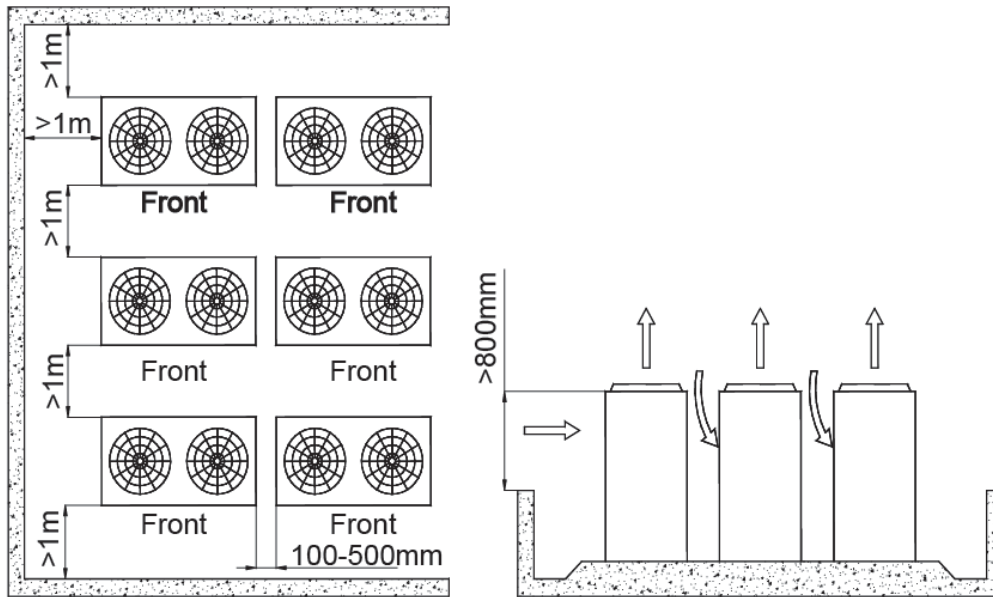
Outdoor units are higher than the surrounding buildings  
 Outdoor units are aligned in one line



Outdoor units are aligned in two lines

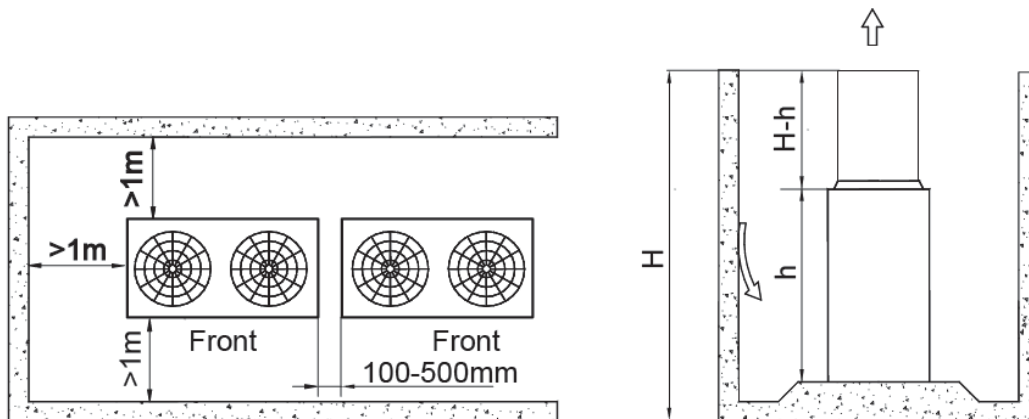


More than 2 lines of outdoor units

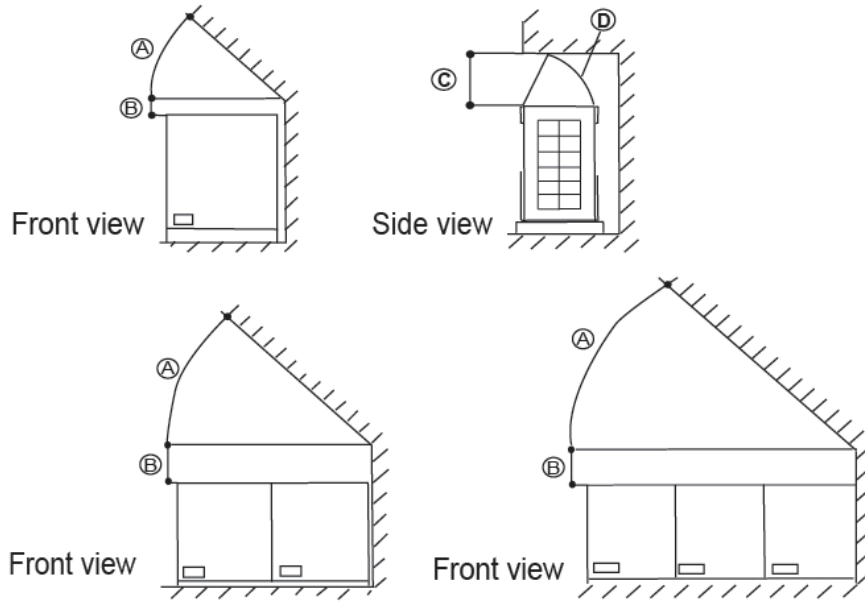


**3.6** Outdoor units are lower than the surrounding obstacles

If the outdoor units are lower than the surrounding obstacles, in order to ensure an effective “heat exchange” a conduit is strongly recommended to help the heat emission and avoid the discharging air being absorbed into the system again. The conduit is made on the installation spot with the height  $HD=H-h$ . (Note: Because the outdoor fan motor has no enough static pressure, the Max. Length should be less than 3meters.)



**3.7** When there are obstacles above the outdoor unit:

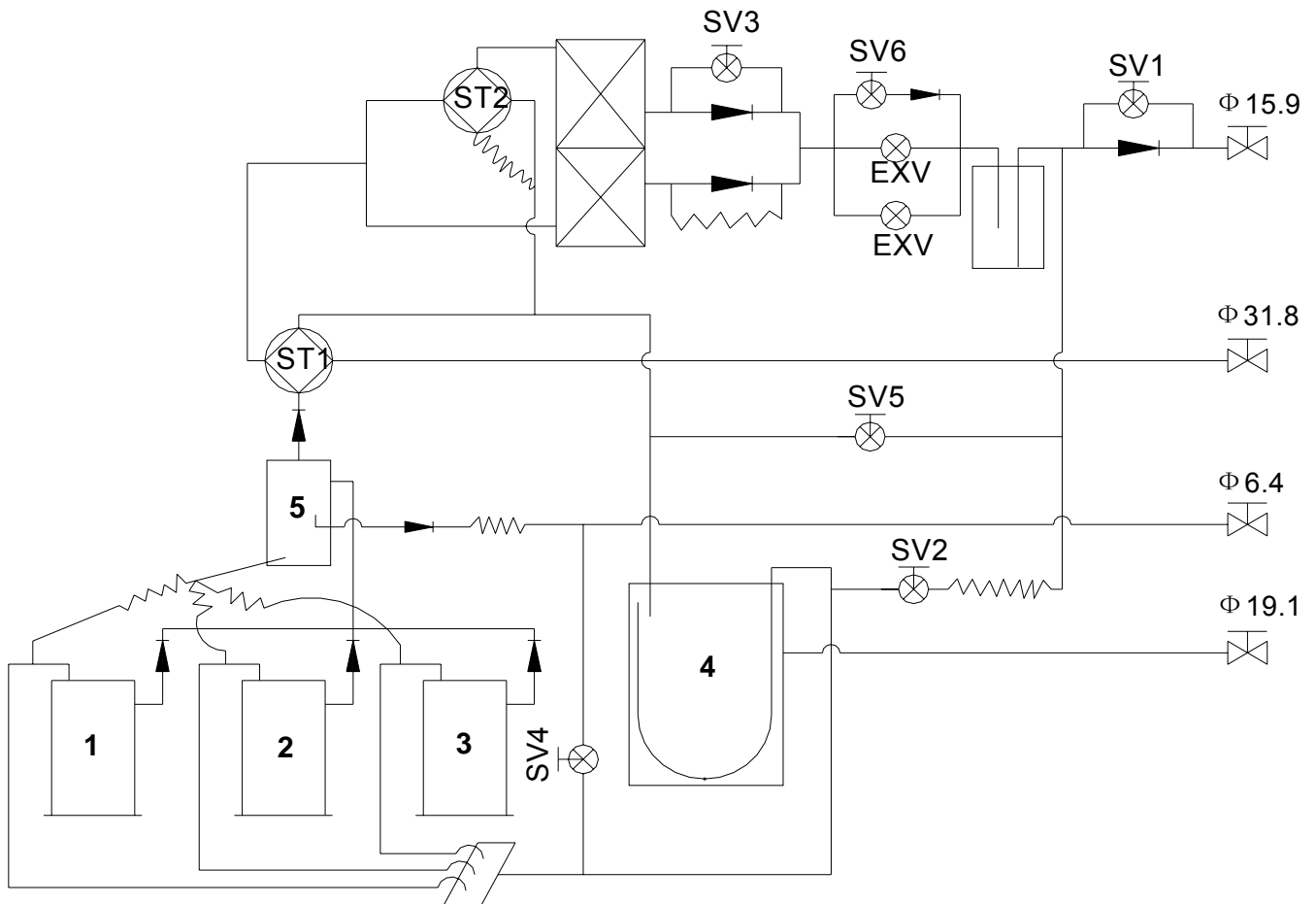


- (A) >45°
- (B) >300mm
- (C) >1000mm
- (D) Airflow deflector

**Note:** If miscellaneous articles are piled around the outdoor unit, such articles must be 800mm below the top of the outdoor unit. Otherwise, a mechanic exhaust device must be added.

## 4. Piping Diagram

Take MDVi-400(14) W/DSN1 for example:



### Remark:

**1:** DC Inverter compressor

**2/3:** Fixed compressor

**4:** Gas-liquid separator

**5:** Oil separator

**Note:** Model MDVi-252(8)W/DSN1, MDVi-280(10)W/DSN1, MDVi-335(12)W/DSN1 has only one fixed compressor, model MDVi-400(14)W/DSN1, MDVi-450(16)W/DSN1 have two fixed compressors.

### EXV (electromagnetic expand valve) control:

- 1) Every outdoor unit has two same EXV.
- 2) Max. Open degree is 480 pulses.
- 3) Generally when system is electrified the EXV closes 700pulse first, then opens to 350 pulse and stand by. Then the unit is started, it opens to the right pulse.
- 4) When the running outdoor unit receives OFF signal, the EXV of auxiliary unit will stop while main unit is running and auxiliary unit is stopped at the same time. If all outdoor units are stopped, the EXV will close first, then open to the pulse of stand-by.
- 5) **SV1:** Opens when outdoor unit starts. Closes when unit stops.
- 6) **SV2:** for spraying a little refrigerant to cool compressor down. Opens if any compressor discharge temp. is higher than 100°C.
- 7) **SV3:** for changing the heat-exchanged areas on heating mode. Opens when the average temp. of all indoor evaporators is less than 46°C. Closes while the average temp. of all indoor evaporators more than 52°C OFF on cooling mode



- 8) **SV4:** oil returning valve.  
Opens when the unit is running for every 20 minutes and last 3 minutes
- 9) **SV5:** for defrost.  
In defrosting mode, the opening of SV5 can cut the refrigerant flowing circle, so the defrosting process will takes less time.
- 10) **SV6:** for by-pass.  
Closes when the unit stands by and system in heating mode.  
Opens when the discharge temperature is too high in cooling mode.

**Four-way valve control:**

- 1) **ST1:** Main 4-way valve  
Closes in cooling mode and opens in heating mode
- 2) **ST2:** Auxiliary 4-way valve, for changing the heat-exchanger areas in cooling mode.  
Opens when in part load mode and closes while in full load mode.  
Closes in heating mode.

# 5. Wiring Diagram

MDVi-252(8)W/DSN1 MDVi-280(10)W/DSN1 MDV-335(12)W/DSN1 MDVi-400(14)W/DSN1 MDVi-450(16)W/DSN1

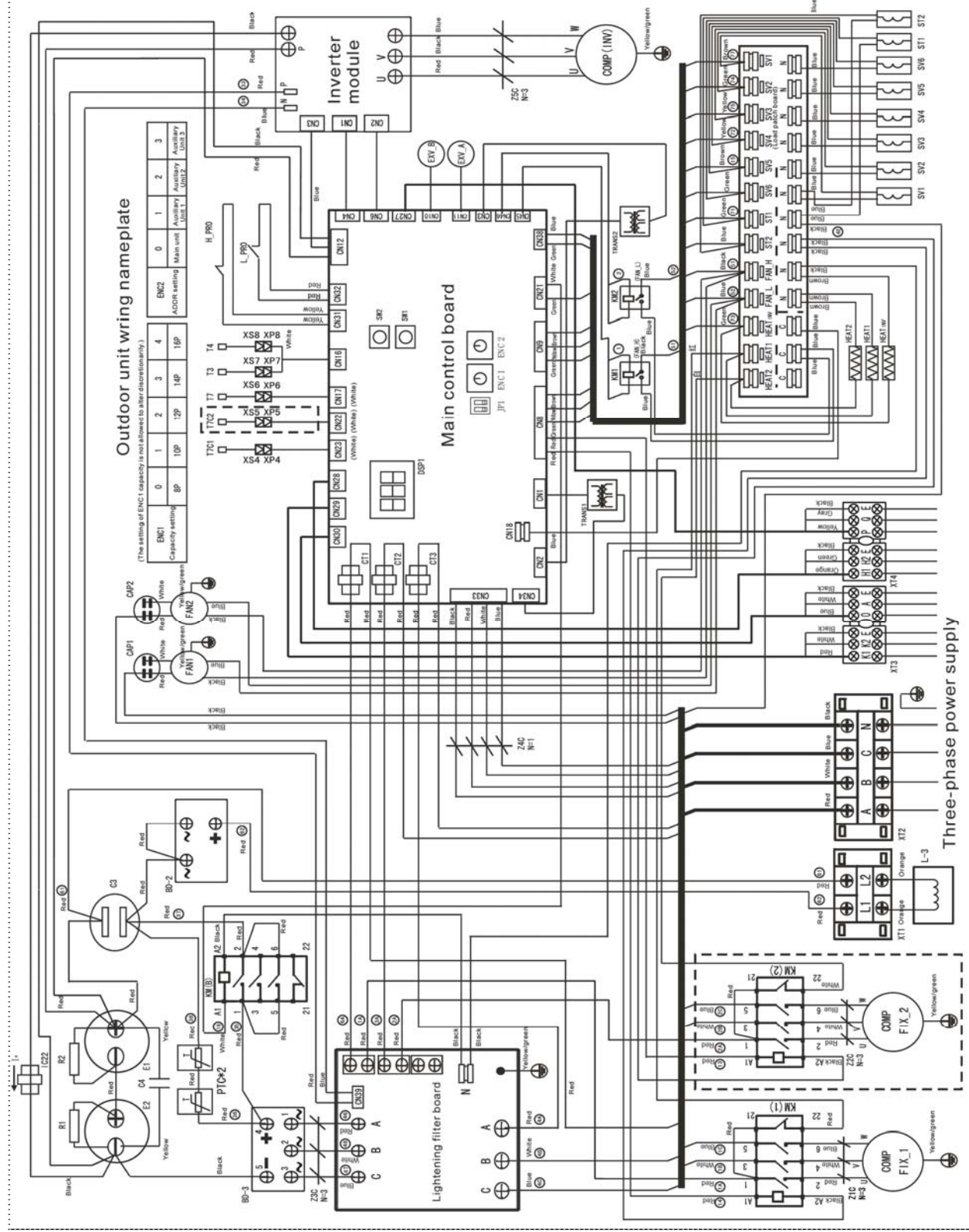
CODE	NAME
COMP (INV)	Inverter compressor
COMP FIX_1, 2	Fixed compressor
FAN1, FAN2	Fan
CAP1, CAP2	Capacitor fan
S11	Main 4-way valve
S12	Auxil. 4-way valve
MR(1, 2, 3)	Contactor
MR1-MR2	Relay
XT1	Big 2-phase terminal
XT2	Big 4-phase terminal
XT3	Small 6-phase terminal
L-PRO	Low-pressure switch
H-PRO	Hi-pressure switch
EVV_A, B	Electronic expansion valve
X54-X58	Middle terminal
PH-P28	Middle terminal
T3	Pipe temp sensor
T4	Outdoor temp sensor
T7	Discharge temp sensor
TRC1, TRC2	Discharge temp sensor
PTC	Thermal resistor
TRMS1, TRMS2	Power transformer
CI-1, CI2	Current inductor
BD-2	Single-phase bridge
BD-3	3-phase bridge
E1, E2, C3, C4	Filter capacitor
L-3	Reluctor
SV1-SV6	Solenoid valve
R1, R2	Cement resistor
HEAT(1, 2, 3)	Crankcase heater

DSP1	
E0	Outdoor unit COMM error
E1	Phase protection
E2	COMM error with indoor unit
E4	Outdoor temp sensor error
E8	Outdoor unit address error
E9	Power volt. Error
H6, H1	Chip COMM error
H2	Qty. of outdoor unit decreases
H3	Qty. of outdoor unit increases
H5	Inverter compressor top temp protection
H7	Hi-pressure protection
F1	Low-pressure protection
P3	Compressor cur. Protection
P4	Compressor discharge temp protection
P5	Outdoor condenser hi temp protection
P6	Inverter module protection
P7	Current protection, No.1 fixed compressor
P8	Current protection, No.2 fixed compressor
d'	Defrost
d''	Oil return

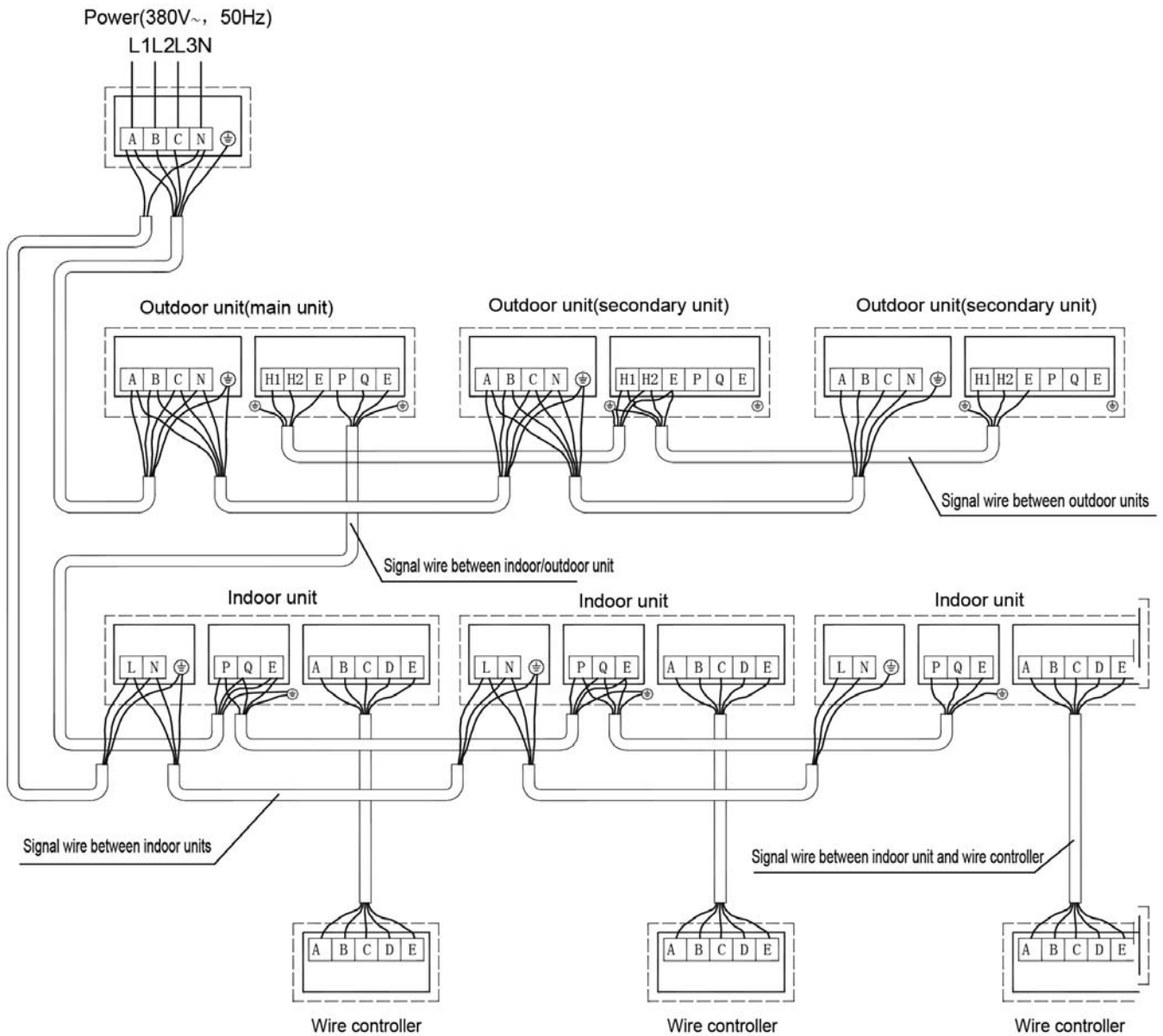
  

This description of job is switch setting.	
	Default setting before shipping. OFF
	Default setting. ON
	Detection setting. ON



## 6. Field Wiring

### 6.1 Connection of control wire (taking multi-connected unit for example)

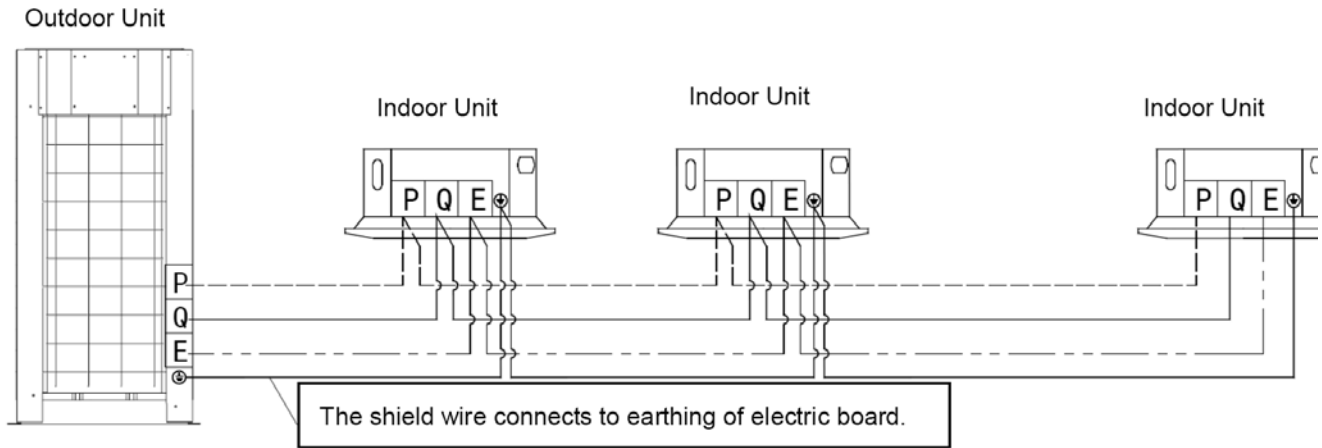


**Note:**

1. The signal connecting line between outdoor units, indoor and outdoor units and indoor units has polarity. When connecting, be careful to prevent error connection.
2. Signal line shall adopt three-core shielded wire with an area above 0.75 mm<sup>2</sup>.
3. Do not bind signal line and copper pipe together with belting.

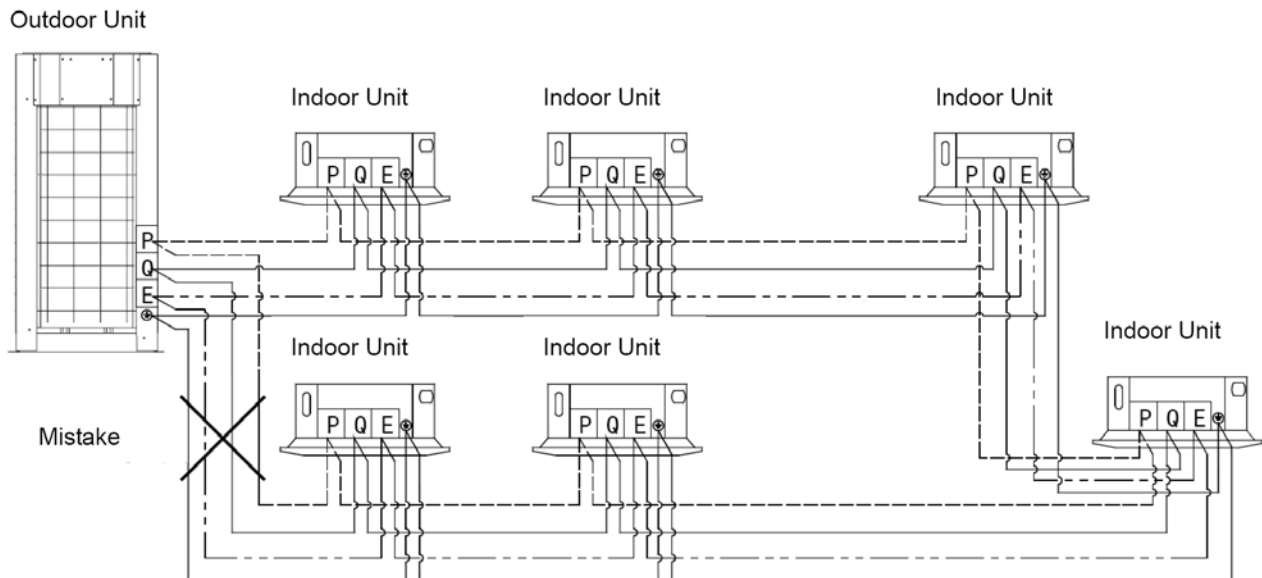
## 6.2 Control Wiring Connection Method

### 1) Correct connection



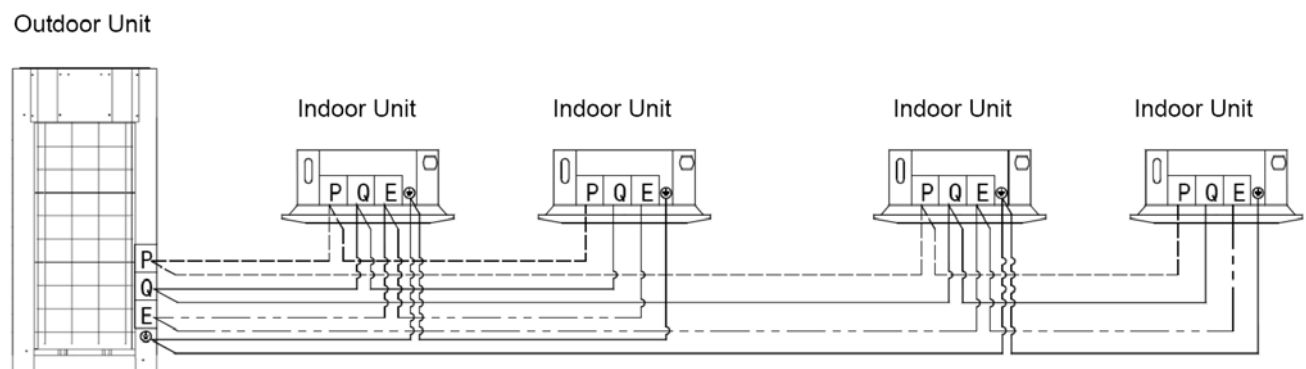
### 2) Typical wrong connection

#### a. Annular connection of signal line



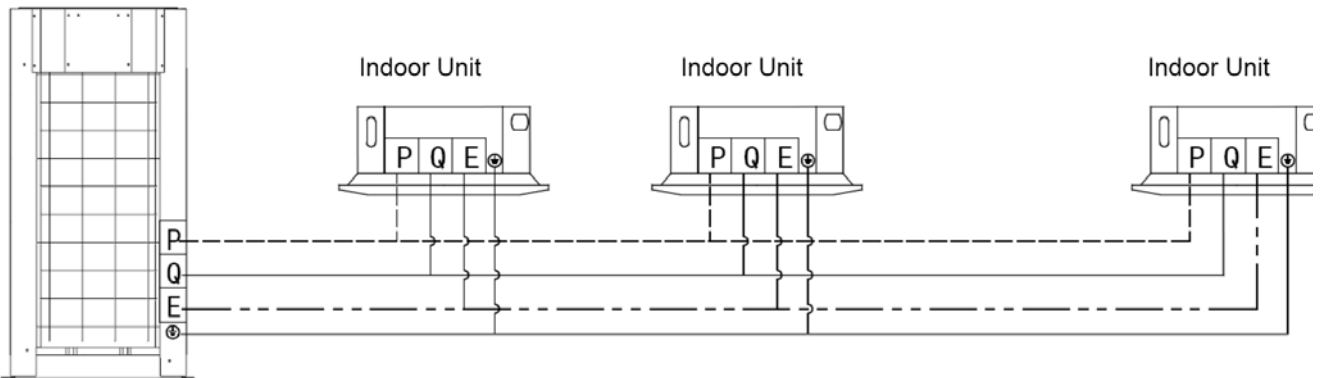
#### b. Star connection of signal line

##### ● Star connection of part signal line



- Star connection of all signal line

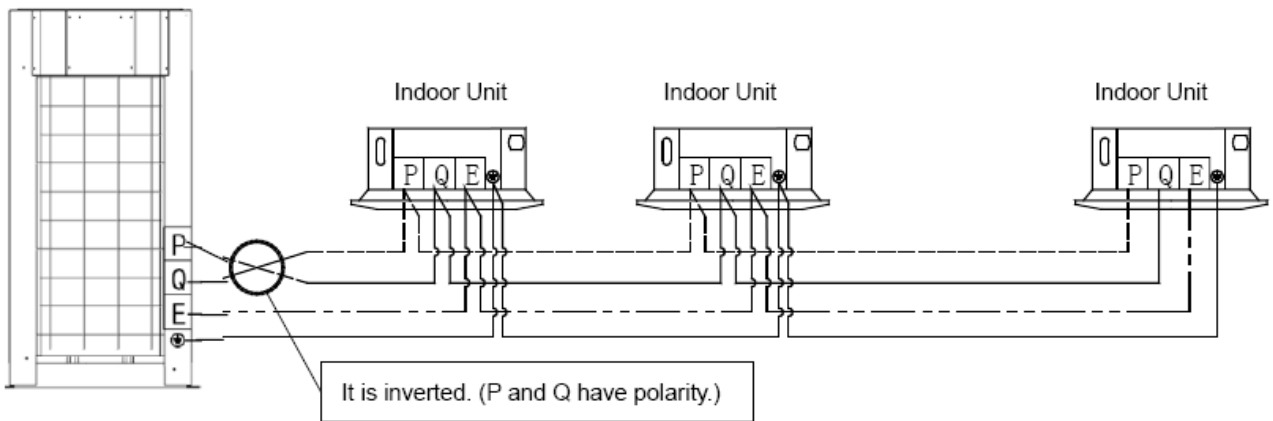
Outdoor Unit



- c. Reverse connection of signal line

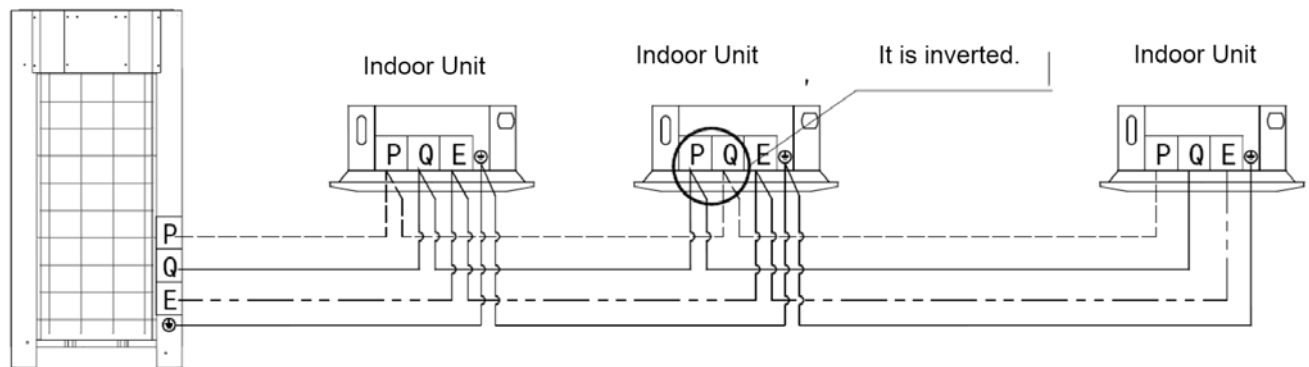
- Outdoor unit — indoor unit

Outdoor Unit



- Indoor unit — indoor unit

Outdoor Unit



**Caution:** shielded layer shall be connected to electrical panel.

### 6.2.2 Specification of Control Wiring

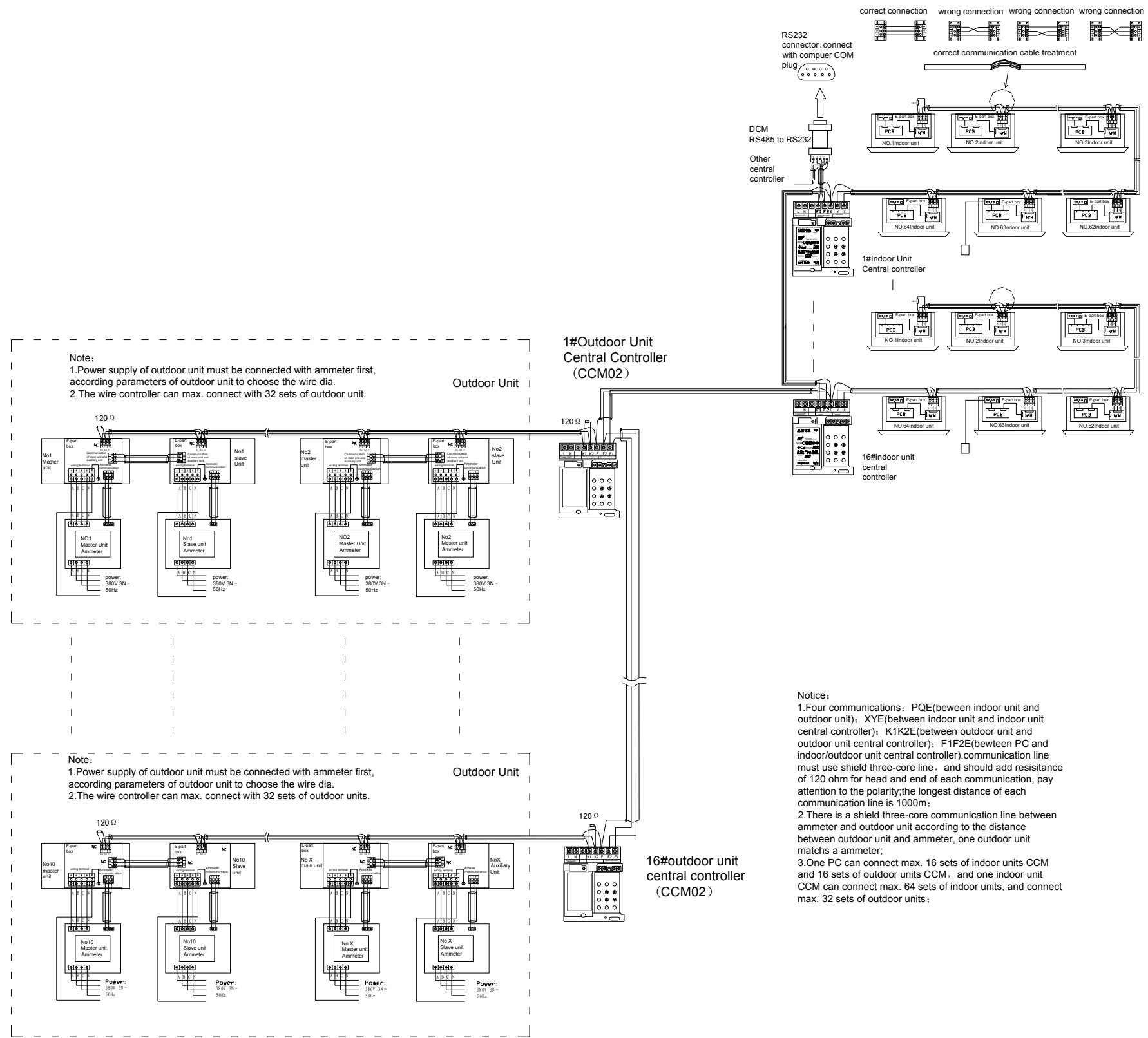
Normal shield wires are as following:

Model	Item
AVP	Copper core PVC insulated shield wire
AVP-105	Heat-resistant 105°C PVC insulated shield wire
RVP	PVC insulated shielded flexible wire
RVP-105	Heat-resistant 105°C PVC insulated shielded flexible wire
RVVP	Copper core PVC-insulated PVC-sheathed metal shielded flexible cable
RVVP1	Copper core PVC-insulated PVC-sheathed metal twisted shielded flexible cable

**Note:**

- 1) Communication wire should be 3-core shield wire; there should be metal-shield layer twist. Otherwise it will be easily interfered and bring wrong action.
- 2) And the size should be above 0.75mm<sup>2</sup> (Diameter.)
- 3) The material is RVVP (copper core PVC-insulated PVC-sheathed metal shielded flexible cable) or RVVP1(copper core PVC-insulated PVC-sheathed metal twisted shielded flexible cable) series
- 4) It has three cores (X, Y, E) inside, and E is a 5V layer.
- 5) The metal layer should be grounded well indoor control box in order to prevent interference.

### 6.3 Wiring Diagram (Indoor/CCM)



**Note:** The 120 ohm resistance can be cancelled because we have strengthened the anti-interference capacity in the program.

## 7. Electric Characteristics

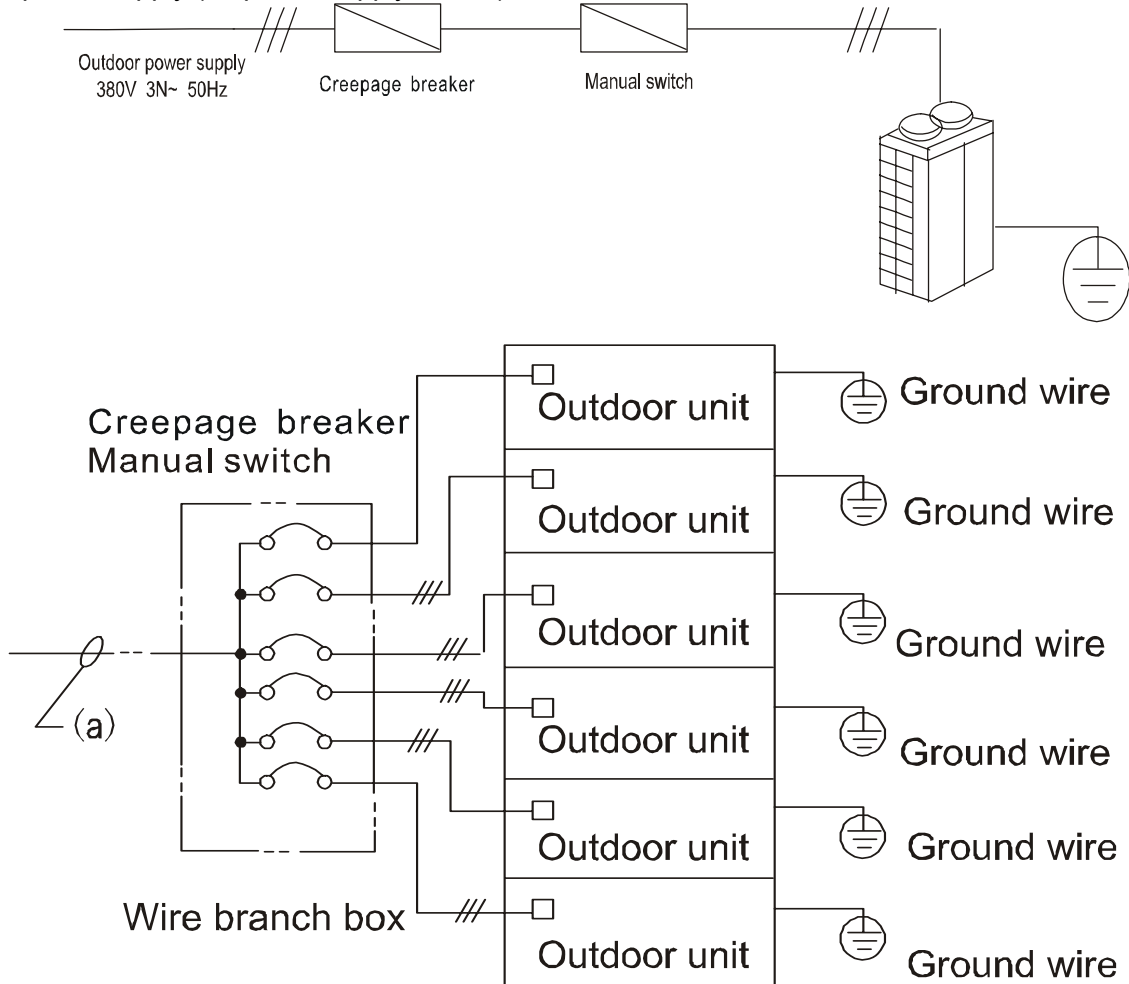
### 7.1 Brief Introduction

- 7.1.1 All wires, parts and material must conform to concerning national standards.
- 7.1.2 All wiring work must be done by qualified person.
- 7.1.3 Grounded well.

### 7.2 Power circuitry installation

Outdoors power supply wiring

#### 7.2.1 Single power supply (no power supply device)

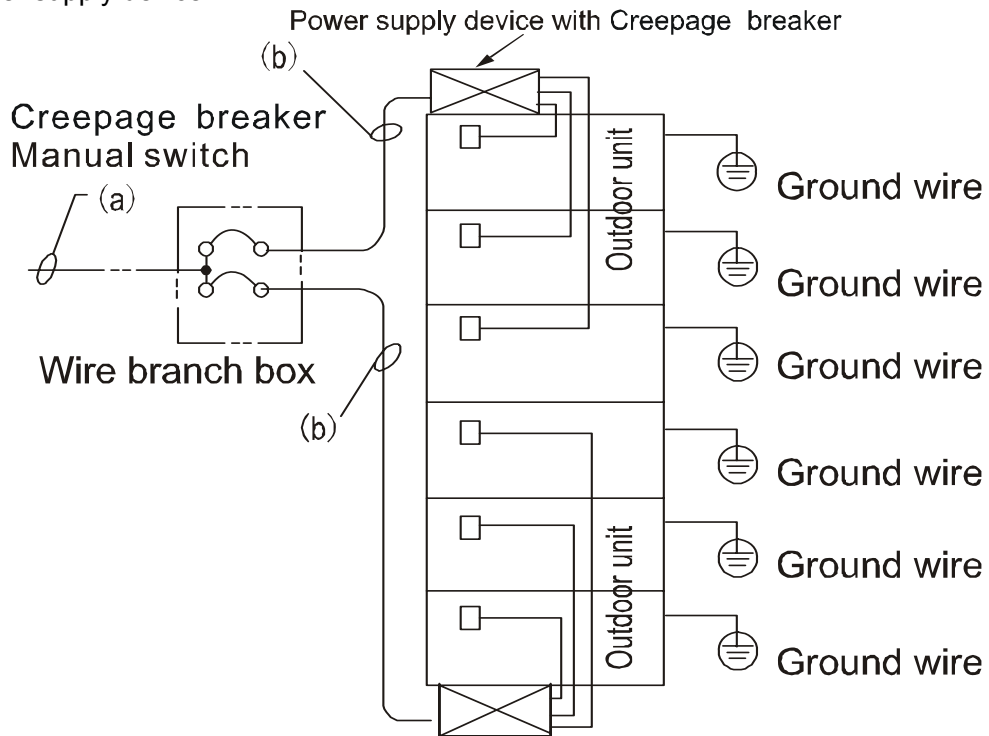


Item Model	Power supply	Minimum Power wire diameter (mm <sup>2</sup> ) Wiring of mental and synthetic resin		manual switch (A)		Creepage breaker
		Size	Ground wire	Capacity	Fuse	
MDVi-252(8)W/DSN1	380V 3N-50Hz	16(L≤29m) 25(L≤46m) 35(L≤78m)	16	60	50	100 mA under 0.1sec
MDVi-280(10)W/DSN1						
MDVi-335(12)W/DSN1						
MDVi-400(14)W/DSN1	380V 3N-50Hz	16	80	70		
MDVi-450(16)W/DSN1						

**Note:** Select power cord for these five models separately according to relevant standard. The wiring diameter and the length in the table indicate the condition that the voltage dropping range is within 2%. If the length exceeds the above figure, please select the wire diameter according to relevant standard.



7.2.2 With power supply device



7.2.3 Select the wire diameter

Power wiring refers to the main wire (a) connecting to branch box and the wiring (b) between branch box and power facilities. Please select the wire diameter according to the following requirement.

7.2.3.1 The dimension of the main power wiring (a).

Calculate the total capacity of all outdoor units (HP) and according to the following table to select the dimension of the wiring.

7.2.3.2 The dimension of branch wiring (b) between Wire Branch Box and outdoor unit.

In condition that no more than 4 outdoor units are combined, the dimension is the same as main power wiring. When more than 4 units are combined, the electric control boxes of power device is divided into two, then select the dimension of the wiring according to the following table.

Total capacity (HP)	Mini. dimension of wiring (mm <sup>2</sup> )		Total capacity	Dimension of wiring (mm <sup>2</sup> )	
	Below 20m	20 to 50m		Below 20m	20 to 50m
8	10	25	38	70	95
10	10	25	40	70	95
12	16	25	42	70	95
14	25	35	44	70	95
16	25	35	46	70	95
18	25	35	48	70	95
20	25	35	50	95	120
22	35	70	52	95	120
24	35	70	54	95	120
26	35	70	56	95	120
28	35	70	58	95	120
30	50	70	60	95	120
32	50	70	62	95	120
34	50	70	64	95	120
36	50	70			

**Note:** the data in the above table is under the condition that the voltage decreases no more than 2%. If the length of wiring is more than the data in the diagram, please select wires according to certain standards.

7.2.4 Selection the fuse and manual switch of wire branch box.

Total capacity of outdoor units (HP)	Manual switch (A)	Fuse (A)	Total capacity of outdoor units (HP)	Manual switch (A)	Fuse (A)
10~14	100	75	37~47	300	250
15~18	100	100	48~50	300	300
19~28	150	150	52~64	400	400
29~36	200	200			

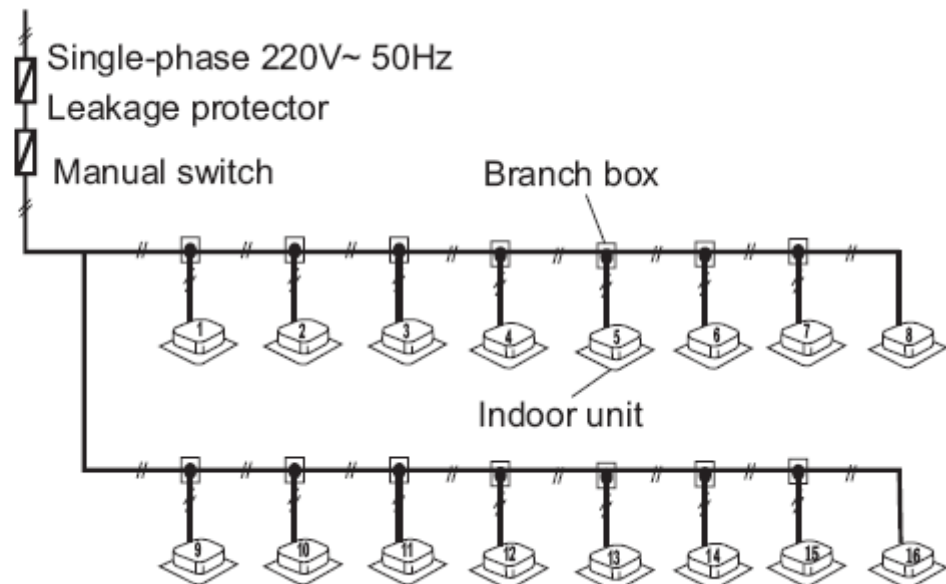
Indoor power supply wiring

The dimension of indoor power supply wiring

Item Model	Power supply	The minimal dimension of wiring ((mm <sup>2</sup> ))		manual switch (A)		Creepage breaker  30mA under 0.1sec
		Continuous wire length ≤20m (≤50m)	Ground wire	Capacity	Fuse	
All indoor units	220-240V 1N-50Hz	2.5 (3.5)	φ1.6mm	30	15	

**Note:** The length in the table equals the value of power cord connecting parallel indoor units, indicating the condition that the voltage dropping range is within 2%. If the length exceeds the above figure, please select the wire diameter according to relevant standard.

Indoor power supply



Selection wiring specification

The following wiring specification just aim at Fluorin resinoid insulating wire, if use others, please refer to the concerning national standard.

Normal Fluorin resinoid insulating wire

Model	Name
BV	Fluorin resinoid insulating wire, copper-core
BLV	Fluorin resinoid insulating wire, aluminum-core
BVR	Fluorin resinoid insulating soft wire, copper-core
BVV	Fluorin resinoid insulating wire, copper-core, round-type
BLVV	Fluorin resinoid insulating wire, aluminum-core, round-type
BVVB	Fluorin resinoid insulating wire, copper-core, flat-type
BLVVB	Fluorin resinoid insulating wire, aluminum-core, flat-type
BV-105	Fluorin resinoid insulating wire, copper-core, heat-endurance 105°C

RV	Fluorin resinoid insulating connecting soft wire, copper-core
RVB	Fluorin resinoid insulating connecting wire, copper-core, flat-type
RVS	Fluorin resinoid insulating connecting wire, copper-core, twist-type
RVV	Fluorin resinoid insulating connecting soft wire, copper-core, round-type
RVVB	Fluorin resinoid insulating connecting soft wire, copper-core, flat-type
RV-105	Fluorin resinoid insulating connecting soft wire, copper-core, heat-endurance 105°C

### 7.3 Electric Characteristics

Model	Outdoor Unit				Power Supply			OFM	
	Hz	Voltage	Min.	Max.	MCA	TOCA	MFA	kW	FLA
MDVi-252(8)W/DSN1	50	380	342	418	12	24.5	45	0.4	2.95
MDVi-280(10)W/DSN1	50	380	342	418	12	24.5	45	0.4	2.95
MDVi-335(12)W/DSN1	50	380	342	418	12	24.5	45	0.35(×2)	2.7(×2)
MDVi-400(14)W/DSN1	50	380	342	418	12.5	33	50	0.45(×2)	3.28(×2)
MDVi-450(16)W/DSN1	50	380	342	418	12.5	33	50	0.45(×2)	3.28(×2)

**Remark:**

MCA: Min. Current Amps. (A)

TOCA: Max. Operation current Amps. (A)

MFA: Max. Fuse Amps. (A)

MSC: Max. Starting Amps. (A)

RLA: Rated Locked Amps. (A)

OFM: Outdoor Fan Motor.

FLA: Full Load Amps. (A)

kW: Rated Motor Output (kW)

## 8. Capacity Tables

### 8.1 Cooling:

#### MDVi-252(8)W/DSN1

TC: total capacity PI: power input

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
130%	10.00	19.13	2.22	22.59	2.77	26.04	3.32	27.63	3.60	29.22	3.88	29.85	3.89	30.49	3.93
	12.00	19.13	2.26	22.59	2.82	26.04	3.38	27.63	3.67	29.22	3.95	29.85	3.96	30.49	4.00
	14.00	19.13	2.31	22.59	2.87	26.04	3.44	27.63	3.73	29.22	4.02	29.85	4.04	30.49	4.07
	16.00	19.13	2.35	22.59	2.92	26.04	3.50	27.63	3.80	29.22	4.09	29.85	4.11	30.49	4.15
	18.00	19.13	2.39	22.59	2.98	26.04	3.56	27.63	3.86	29.22	4.17	29.85	4.18	30.49	4.22
	19.00	19.13	2.43	22.59	3.03	26.04	3.62	27.63	3.93	29.22	4.24	29.85	4.25	30.49	4.29
	21.00	19.13	2.60	22.59	3.25	26.04	3.89	27.63	4.21	29.22	4.54	29.85	4.56	30.49	4.60
	23.00	19.13	2.79	22.59	3.48	26.04	4.16	27.63	4.51	29.22	4.87	29.85	4.88	30.49	4.93
	25.00	19.13	2.99	22.59	3.72	26.04	4.45	27.63	4.83	29.22	5.21	29.85	5.22	30.49	5.27
	27.00	19.13	3.19	22.59	3.98	26.04	4.76	27.63	5.16	29.22	5.57	29.85	5.58	30.49	5.64
	29.00	19.13	3.41	22.59	4.25	26.04	5.08	27.63	5.51	29.22	5.94	29.85	5.96	30.49	6.02
	31.00	19.13	3.63	22.59	4.53	26.04	5.42	27.63	5.88	29.22	6.34	29.85	6.36	30.49	6.42
	33.00	19.13	3.87	22.59	4.82	26.04	5.78	27.63	6.26	29.22	6.75	29.85	6.77	30.49	6.84
	35.00	19.13	4.12	22.59	5.13	26.04	6.14	27.63	6.66	29.22	7.18	29.85	7.21	30.49	7.28
	37.00	19.13	4.38	22.59	5.46	26.04	6.53	27.63	7.09	29.22	7.64	29.85	7.66	30.49	7.74
	39.00	19.13	4.40	22.59	5.48	26.04	6.56	27.63	7.12	29.22	7.67	29.85	7.70	30.49	7.77
	41.00	19.13	4.42	22.59	5.51	26.04	6.59	27.63	7.15	29.22	7.71	29.85	7.73	30.49	7.81
	43.00	19.13	4.44	22.59	5.53	26.04	6.62	27.63	7.18	29.22	7.74	29.85	7.77	30.49	7.84
45.00	19.13	4.46	22.59	5.56	26.04	6.65	27.63	7.22	29.22	7.78	29.85	7.80	30.49	7.88	
47.00	19.13	4.48	22.59	5.58	26.04	6.68	27.63	7.25	29.22	7.82	29.85	7.84	30.49	7.92	
48.00	19.13	4.50	22.59	5.61	26.04	6.72	27.63	7.28	29.22	7.85	29.85	7.88	30.49	7.95	
120%	10.00	18.82	2.20	22.22	2.74	25.62	3.29	27.18	3.56	28.74	3.84	29.37	3.85	29.99	3.89
	12.00	18.82	2.24	22.22	2.79	25.62	3.35	27.18	3.63	28.74	3.91	29.37	3.92	29.99	3.96
	14.00	18.82	2.28	22.22	2.85	25.62	3.41	27.18	3.70	28.74	3.98	29.37	4.00	29.99	4.04
	16.00	18.82	2.32	22.22	2.90	25.62	3.47	27.18	3.76	28.74	4.06	29.37	4.07	29.99	4.11
	18.00	18.82	2.37	22.22	2.95	25.62	3.53	27.18	3.83	28.74	4.13	29.37	4.14	29.99	4.18
	19.00	18.82	2.41	22.22	3.00	25.62	3.59	27.18	3.89	28.74	4.20	29.37	4.21	29.99	4.25
	21.00	18.82	2.58	22.22	3.21	25.62	3.85	27.18	4.17	28.74	4.50	29.37	4.51	29.99	4.56
	23.00	18.82	2.76	22.22	3.44	25.62	4.12	27.18	4.47	28.74	4.82	29.37	4.83	29.99	4.88
	25.00	18.82	2.96	22.22	3.68	25.62	4.41	27.18	4.78	28.74	5.16	29.37	5.17	29.99	5.22
	27.00	18.82	3.16	22.22	3.94	25.62	4.72	27.18	5.11	28.74	5.51	29.37	5.53	29.99	5.58
	29.00	18.82	3.37	22.22	4.21	25.62	5.04	27.18	5.46	28.74	5.89	29.37	5.91	29.99	5.96
	31.00	18.82	3.60	22.22	4.48	25.62	5.37	27.18	5.82	28.74	6.28	29.37	6.30	29.99	6.36
	33.00	18.82	3.83	22.22	4.78	25.62	5.72	27.18	6.20	28.74	6.69	29.37	6.71	29.99	6.77
	35.00	18.82	4.08	22.22	5.08	25.62	6.08	27.18	6.60	28.74	7.11	29.37	7.14	29.99	7.21
	37.00	18.82	4.34	22.22	5.40	25.62	6.47	27.18	7.02	28.74	7.57	29.37	7.59	29.99	7.66
39.00	18.82	4.36	22.22	5.43	25.62	6.50	27.18	7.05	28.74	7.60	29.37	7.62	29.99	7.70	
41.00	18.82	4.38	22.22	5.45	25.62	6.53	27.18	7.08	28.74	7.63	29.37	7.66	29.99	7.73	

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
	43.00	18.82	4.40	22.22	5.48	25.62	6.56	27.18	7.11	28.74	7.67	29.37	7.69	29.99	7.77
	45.00	18.82	4.42	22.22	5.50	25.62	6.59	27.18	7.15	28.74	7.70	29.37	7.73	29.99	7.80
	47.00	18.82	4.44	22.22	5.53	25.62	6.62	27.18	7.18	28.74	7.74	29.37	7.76	29.99	7.84
	48.00	18.82	4.46	22.22	5.55	25.62	6.65	27.18	7.21	28.74	7.78	29.37	7.80	29.99	7.88
110%	10.00	18.51	2.18	21.85	2.72	25.19	3.25	26.73	3.53	28.27	3.80	28.88	3.82	29.50	3.85
	12.00	18.51	2.22	21.85	2.77	25.19	3.31	26.73	3.59	28.27	3.87	28.88	3.89	29.50	3.92
	14.00	18.51	2.26	21.85	2.82	25.19	3.37	26.73	3.66	28.27	3.95	28.88	3.96	29.50	4.00
	16.00	18.51	2.30	21.85	2.87	25.19	3.43	26.73	3.73	28.27	4.02	28.88	4.03	29.50	4.07
	18.00	18.51	2.34	21.85	2.92	25.19	3.49	26.73	3.79	28.27	4.09	28.88	4.10	29.50	4.14
	19.00	18.51	2.38	21.85	2.97	25.19	3.56	26.73	3.86	28.27	4.16	28.88	4.17	29.50	4.21
	21.00	18.51	2.55	21.85	3.18	25.19	3.81	26.73	4.13	28.27	4.46	28.88	4.47	29.50	4.51
	23.00	18.51	2.74	21.85	3.41	25.19	4.08	26.73	4.43	28.27	4.77	28.88	4.79	29.50	4.83
	25.00	18.51	2.93	21.85	3.65	25.19	4.37	26.73	4.74	28.27	5.11	28.88	5.12	29.50	5.17
	27.00	18.51	3.13	21.85	3.90	25.19	4.67	26.73	5.07	28.27	5.46	28.88	5.48	29.50	5.53
	29.00	18.51	3.34	21.85	4.16	25.19	4.99	26.73	5.41	28.27	5.83	28.88	5.85	29.50	5.90
	31.00	18.51	3.56	21.85	4.44	25.19	5.32	26.73	5.77	28.27	6.22	28.88	6.24	29.50	6.30
	33.00	18.51	3.80	21.85	4.73	25.19	5.66	26.73	6.14	28.27	6.62	28.88	6.64	29.50	6.71
	35.00	18.51	4.04	21.85	5.03	25.19	6.03	26.73	6.54	28.27	7.05	28.88	7.07	29.50	7.14
	37.00	18.51	4.30	21.85	5.35	25.19	6.41	26.73	6.95	28.27	7.49	28.88	7.52	29.50	7.59
	39.00	18.51	4.31	21.85	5.38	25.19	6.44	26.73	6.98	28.27	7.53	28.88	7.55	29.50	7.62
	41.00	18.51	4.33	21.85	5.40	25.19	6.47	26.73	7.01	28.27	7.56	28.88	7.58	29.50	7.66
	43.00	18.51	4.35	21.85	5.42	25.19	6.50	26.73	7.05	28.27	7.59	28.88	7.62	29.50	7.69
45.00	18.51	4.37	21.85	5.45	25.19	6.53	26.73	7.08	28.27	7.63	28.88	7.65	29.50	7.73	
47.00	18.51	4.39	21.85	5.48	25.19	6.56	26.73	7.11	28.27	7.67	28.88	7.69	29.50	7.76	
48.00	18.51	4.41	21.85	5.50	25.19	6.59	26.73	7.14	28.27	7.70	28.88	7.72	29.50	7.80	
100%	10.00	17.45	2.04	20.60	2.54	23.75	3.04	25.20	3.29	26.65	3.55	27.23	3.56	27.81	3.60
	12.00	17.45	2.07	20.60	2.58	23.75	3.09	25.20	3.36	26.65	3.62	27.23	3.63	27.81	3.66
	14.00	17.45	2.11	20.60	2.63	23.75	3.15	25.20	3.42	26.65	3.68	27.23	3.69	27.81	3.73
	16.00	17.45	2.15	20.60	2.68	23.75	3.21	25.20	3.48	26.65	3.75	27.23	3.76	27.81	3.80
	18.00	17.45	2.19	20.60	2.72	23.75	3.26	25.20	3.54	26.65	3.81	27.23	3.83	27.81	3.86
	19.00	17.45	2.22	20.60	2.77	23.75	3.32	25.20	3.60	26.65	3.88	27.23	3.89	27.81	3.93
	21.00	17.45	2.38	20.60	2.97	23.75	3.56	25.20	3.86	26.65	4.16	27.23	4.17	27.81	4.21
	23.00	17.45	2.55	20.60	3.18	23.75	3.81	25.20	4.13	26.65	4.46	27.23	4.47	27.81	4.51
	25.00	17.45	2.73	20.60	3.41	23.75	4.08	25.20	4.42	26.65	4.77	27.23	4.78	27.81	4.83
	27.00	17.45	2.92	20.60	3.64	23.75	4.36	25.20	4.73	26.65	5.10	27.23	5.11	27.81	5.16
	29.00	17.45	3.12	20.60	3.89	23.75	4.65	25.20	5.05	26.65	5.44	27.23	5.46	27.81	5.51
	31.00	17.45	3.33	20.60	4.15	23.75	4.96	25.20	5.38	26.65	5.80	27.23	5.82	27.81	5.88
	33.00	17.45	3.54	20.60	4.42	23.75	5.29	25.20	5.73	26.65	6.18	27.23	6.20	27.81	6.26
	35.00	17.45	3.77	20.60	4.70	23.75	5.62	25.20	6.07	26.65	6.58	27.23	6.60	27.81	6.66
37.00	17.45	4.01	20.60	5.00	23.75	5.98	25.20	6.49	26.65	6.99	27.23	7.02	27.81	7.08	
39.00	17.45	4.03	20.60	5.02	23.75	6.01	25.20	6.52	26.65	7.02	27.23	7.05	27.81	7.11	

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
	41.00	17.45	4.04	20.60	5.04	23.75	6.03	25.20	6.55	26.65	7.06	27.23	7.08	27.81	7.15
	43.00	17.45	4.06	20.60	5.06	23.75	6.06	25.20	6.58	26.65	7.09	27.23	7.11	27.81	7.18
	45.00	17.45	4.08	20.60	5.09	23.75	6.09	25.20	6.61	26.65	7.12	27.23	7.14	27.81	7.21
	47.00	17.45	4.10	20.60	5.11	23.75	6.12	25.20	6.64	26.65	7.15	27.23	7.18	27.81	7.25
	48.00	17.45	4.12	20.60	5.13	23.75	6.15	25.20	6.67	26.65	7.19	27.23	7.21	27.81	7.28
90%	10.00	15.71	1.76	18.54	2.19	21.38	2.63	22.68	2.85	23.98	3.07	24.51	3.08	25.03	3.11
	12.00	15.71	1.79	18.54	2.23	21.38	2.67	22.68	2.90	23.98	3.13	24.51	3.14	25.03	3.17
	14.00	15.71	1.83	18.54	2.27	21.38	2.72	22.68	2.95	23.98	3.18	24.51	3.19	25.03	3.22
	16.00	15.71	1.86	18.54	2.31	21.38	2.77	22.68	3.01	23.98	3.24	24.51	3.25	25.03	3.28
	18.00	15.71	1.89	18.54	2.36	21.38	2.82	22.68	3.06	23.98	3.30	24.51	3.31	25.03	3.34
	19.00	15.71	1.92	18.54	2.40	21.38	2.87	22.68	3.11	23.98	3.35	24.51	3.36	25.03	3.40
	21.00	15.71	2.06	18.54	2.57	21.38	3.08	22.68	3.34	23.98	3.60	24.51	3.61	25.03	3.64
	23.00	15.71	2.21	18.54	2.75	21.38	3.29	22.68	3.57	23.98	3.85	24.51	3.86	25.03	3.90
	25.00	15.71	2.36	18.54	2.94	21.38	3.53	22.68	3.82	23.98	4.12	24.51	4.13	25.03	4.17
	27.00	15.71	2.53	18.54	3.15	21.38	3.77	22.68	4.09	23.98	4.41	24.51	4.42	25.03	4.46
	29.00	15.71	2.70	18.54	3.36	21.38	4.02	22.68	4.36	23.98	4.70	24.51	4.72	25.03	4.76
	31.00	15.71	2.88	18.54	3.58	21.38	4.29	22.68	4.65	23.98	5.02	24.51	5.03	25.03	5.08
	33.00	15.71	3.06	18.54	3.82	21.38	4.57	22.68	4.96	23.98	5.34	24.51	5.36	25.03	5.41
	35.00	15.71	3.26	18.54	4.06	21.38	4.86	22.68	5.27	23.98	5.68	24.51	5.70	25.03	5.76
	37.00	15.71	3.47	18.54	4.32	21.38	5.17	22.68	5.61	23.98	6.05	24.51	6.06	25.03	6.12
	39.00	15.71	3.48	18.54	4.34	21.38	5.19	22.68	5.63	23.98	6.07	24.51	6.09	25.03	6.15
	41.00	15.71	3.50	18.54	4.36	21.38	5.22	22.68	5.66	23.98	6.10	24.51	6.12	25.03	6.18
	43.00	15.71	3.51	18.54	4.38	21.38	5.24	22.68	5.68	23.98	6.13	24.51	6.15	25.03	6.21
45.00	15.71	3.53	18.54	4.40	21.38	5.27	22.68	5.71	23.98	6.16	24.51	6.18	25.03	6.24	
47.00	15.71	3.55	18.54	4.42	21.38	5.29	22.68	5.74	23.98	6.19	24.51	6.20	25.03	6.26	
48.00	15.71	3.56	18.54	4.44	21.38	5.31	22.68	5.76	23.98	6.21	24.51	6.23	25.03	6.29	
80%	10.00	13.96	1.50	16.48	1.87	19.00	2.24	20.16	2.43	21.32	2.62	21.78	2.63	22.25	2.66
	12.00	13.96	1.53	16.48	1.91	19.00	2.28	20.16	2.48	21.32	2.67	21.78	2.68	22.25	2.70
	14.00	13.96	1.56	16.48	1.94	19.00	2.33	20.16	2.52	21.32	2.72	21.78	2.73	22.25	2.75
	16.00	13.96	1.59	16.48	1.98	19.00	2.37	20.16	2.57	21.32	2.77	21.78	2.78	22.25	2.80
	18.00	13.96	1.61	16.48	2.01	19.00	2.41	20.16	2.61	21.32	2.82	21.78	2.83	22.25	2.85
	19.00	13.96	1.64	16.48	2.05	19.00	2.45	20.16	2.66	21.32	2.86	21.78	2.87	22.25	2.90
	21.00	13.96	1.76	16.48	2.19	19.00	2.63	20.16	2.85	21.32	3.07	21.78	3.08	22.25	3.11
	23.00	13.96	1.89	16.48	2.35	19.00	2.81	20.16	3.05	21.32	3.29	21.78	3.30	22.25	3.33
	25.00	13.96	2.02	16.48	2.51	19.00	3.01	20.16	3.27	21.32	3.52	21.78	3.53	22.25	3.57
	27.00	13.96	2.16	16.48	2.69	19.00	3.22	20.16	3.49	21.32	3.76	21.78	3.77	22.25	3.81
	29.00	13.96	2.30	16.48	2.87	19.00	3.44	20.16	3.73	21.32	4.02	21.78	4.03	22.25	4.07
	31.00	13.96	2.46	16.48	3.06	19.00	3.67	20.16	3.98	21.32	4.29	21.78	4.30	22.25	4.34
	33.00	13.96	2.62	16.48	3.26	19.00	3.90	20.16	4.23	21.32	4.56	21.78	4.58	22.25	4.62
	35.00	13.96	2.78	16.48	3.47	19.00	4.15	20.16	4.50	21.32	4.86	21.78	4.87	22.25	4.92
37.00	13.96	2.96	16.48	3.69	19.00	4.42	20.16	4.79	21.32	5.16	21.78	5.18	22.25	5.23	

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
	39.00	13.96	2.97	16.48	3.71	19.00	4.44	20.16	4.81	21.32	5.19	21.78	5.20	22.25	5.25
	41.00	13.96	2.99	16.48	3.72	19.00	4.46	20.16	4.83	21.32	5.21	21.78	5.23	22.25	5.28
	43.00	13.96	3.00	16.48	3.74	19.00	4.48	20.16	4.86	21.32	5.23	21.78	5.25	22.25	5.30
	45.00	13.96	3.01	16.48	3.76	19.00	4.50	20.16	4.88	21.32	5.26	21.78	5.28	22.25	5.33
	47.00	13.96	3.03	16.48	3.77	19.00	4.52	20.16	4.90	21.32	5.28	21.78	5.30	22.25	5.35
	48.00	13.96	3.04	16.48	3.79	19.00	4.54	20.16	4.92	21.32	5.31	21.78	5.32	22.25	5.38
70%	10.00	12.22	1.27	14.42	1.58	16.63	1.89	17.64	2.05	18.65	2.21	19.06	2.21	19.47	2.24
	12.00	12.22	1.29	14.42	1.61	16.63	1.92	17.64	2.09	18.65	2.25	19.06	2.26	19.47	2.28
	14.00	12.22	1.31	14.42	1.64	16.63	1.96	17.64	2.12	18.65	2.29	19.06	2.30	19.47	2.32
	16.00	12.22	1.34	14.42	1.66	16.63	1.99	17.64	2.16	18.65	2.33	19.06	2.34	19.47	2.36
	18.00	12.22	1.36	14.42	1.69	16.63	2.03	17.64	2.20	18.65	2.37	19.06	2.38	19.47	2.40
	19.00	12.22	1.38	14.42	1.72	16.63	2.06	17.64	2.24	18.65	2.41	19.06	2.42	19.47	2.44
	21.00	12.22	1.48	14.42	1.85	16.63	2.21	17.64	2.40	18.65	2.59	19.06	2.59	19.47	2.62
	23.00	12.22	1.59	14.42	1.98	16.63	2.37	17.64	2.57	18.65	2.77	19.06	2.78	19.47	2.81
	25.00	12.22	1.70	14.42	2.12	16.63	2.54	17.64	2.75	18.65	2.96	19.06	2.97	19.47	3.00
	27.00	12.22	1.82	14.42	2.26	16.63	2.71	17.64	2.94	18.65	3.17	19.06	3.18	19.47	3.21
	29.00	12.22	1.94	14.42	2.42	16.63	2.89	17.64	3.14	18.65	3.38	19.06	3.39	19.47	3.43
	31.00	12.22	2.07	14.42	2.58	16.63	3.09	17.64	3.35	18.65	3.61	19.06	3.62	19.47	3.65
	33.00	12.22	2.20	14.42	2.75	16.63	3.29	17.64	3.57	18.65	3.84	19.06	3.86	19.47	3.89
	35.00	12.22	2.34	14.42	2.92	16.63	3.50	17.64	3.79	18.65	4.09	19.06	4.10	19.47	4.14
	37.00	12.22	2.49	14.42	3.11	16.63	3.72	17.64	4.03	18.65	4.35	19.06	4.36	19.47	4.40
	39.00	12.22	2.50	14.42	3.12	16.63	3.74	17.64	4.05	18.65	4.37	19.06	4.38	19.47	4.42
	41.00	12.22	2.52	14.42	3.13	16.63	3.75	17.64	4.07	18.65	4.39	19.06	4.40	19.47	4.44
	43.00	12.22	2.53	14.42	3.15	16.63	3.77	17.64	4.09	18.65	4.41	19.06	4.42	19.47	4.46
45.00	12.22	2.54	14.42	3.16	16.63	3.79	17.64	4.11	18.65	4.43	19.06	4.44	19.47	4.49	
47.00	12.22	2.55	14.42	3.18	16.63	3.81	17.64	4.13	18.65	4.45	19.06	4.46	19.47	4.51	
48.00	12.22	2.56	14.42	3.19	16.63	3.82	17.64	4.15	18.65	4.47	19.06	4.48	19.47	4.53	
60%	10.00	10.47	1.05	12.36	1.31	14.25	1.56	15.12	1.70	15.99	1.83	16.34	1.83	16.68	1.85
	12.00	10.47	1.07	12.36	1.33	14.25	1.59	15.12	1.73	15.99	1.86	16.34	1.87	16.68	1.89
	14.00	10.47	1.09	12.36	1.35	14.25	1.62	15.12	1.76	15.99	1.90	16.34	1.90	16.68	1.92
	16.00	10.47	1.11	12.36	1.38	14.25	1.65	15.12	1.79	15.99	1.93	16.34	1.94	16.68	1.95
	18.00	10.47	1.13	12.36	1.40	14.25	1.68	15.12	1.82	15.99	1.96	16.34	1.97	16.68	1.99
	19.00	10.47	1.14	12.36	1.43	14.25	1.71	15.12	1.85	15.99	2.00	16.34	2.00	16.68	2.02
	21.00	10.47	1.23	12.36	1.53	14.25	1.83	15.12	1.99	15.99	2.14	16.34	2.15	16.68	2.17
	23.00	10.47	1.31	12.36	1.64	14.25	1.96	15.12	2.13	15.99	2.29	16.34	2.30	16.68	2.32
	25.00	10.47	1.41	12.36	1.75	14.25	2.10	15.12	2.28	15.99	2.45	16.34	2.46	16.68	2.49
	27.00	10.47	1.50	12.36	1.87	14.25	2.24	15.12	2.43	15.99	2.62	16.34	2.63	16.68	2.66
	29.00	10.47	1.61	12.36	2.00	14.25	2.40	15.12	2.60	15.99	2.80	16.34	2.81	16.68	2.84
	31.00	10.47	1.71	12.36	2.13	14.25	2.55	15.12	2.77	15.99	2.99	16.34	3.00	16.68	3.03
	33.00	10.47	1.82	12.36	2.27	14.25	2.72	15.12	2.95	15.99	3.18	16.34	3.19	16.68	3.22
	35.00	10.47	1.94	12.36	2.42	14.25	2.89	15.12	3.14	15.99	3.38	16.34	3.39	16.68	3.43

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
	37.00	10.47	2.06	12.36	2.57	14.25	3.08	15.12	3.34	15.99	3.60	16.34	3.61	16.68	3.65
	39.00	10.47	2.07	12.36	2.58	14.25	3.09	15.12	3.35	15.99	3.62	16.34	3.63	16.68	3.66
	41.00	10.47	2.08	12.36	2.59	14.25	3.11	15.12	3.37	15.99	3.63	16.34	3.64	16.68	3.68
	43.00	10.47	2.09	12.36	2.61	14.25	3.12	15.12	3.38	15.99	3.65	16.34	3.66	16.68	3.70
	45.00	10.47	2.10	12.36	2.62	14.25	3.14	15.12	3.40	15.99	3.67	16.34	3.68	16.68	3.71
	47.00	10.47	2.11	12.36	2.63	14.25	3.15	15.12	3.42	15.99	3.68	16.34	3.69	16.68	3.73
	48.00	10.47	2.12	12.36	2.64	14.25	3.16	15.12	3.43	15.99	3.70	16.34	3.71	16.68	3.75
50%	10.00	8.73	0.85	10.30	1.06	11.88	1.27	12.60	1.37	13.32	1.48	13.61	1.49	13.90	1.50
	12.00	8.73	0.86	10.30	1.08	11.88	1.29	12.60	1.40	13.32	1.51	13.61	1.51	13.90	1.53
	14.00	8.73	0.88	10.30	1.10	11.88	1.31	12.60	1.42	13.32	1.54	13.61	1.54	13.90	1.56
	16.00	8.73	0.90	10.30	1.12	11.88	1.34	12.60	1.45	13.32	1.56	13.61	1.57	13.90	1.58
	18.00	8.73	0.91	10.30	1.14	11.88	1.36	12.60	1.48	13.32	1.59	13.61	1.60	13.90	1.61
	19.00	8.73	0.93	10.30	1.16	11.88	1.38	12.60	1.50	13.32	1.62	13.61	1.62	13.90	1.64
	21.00	8.73	0.99	10.30	1.24	11.88	1.48	12.60	1.61	13.32	1.73	13.61	1.74	13.90	1.76
	23.00	8.73	1.07	10.30	1.33	11.88	1.59	12.60	1.72	13.32	1.86	13.61	1.86	13.90	1.88
	25.00	8.73	1.14	10.30	1.42	11.88	1.70	12.60	1.84	13.32	1.99	13.61	1.99	13.90	2.01
	27.00	8.73	1.22	10.30	1.52	11.88	1.82	12.60	1.97	13.32	2.13	13.61	2.13	13.90	2.15
	29.00	8.73	1.30	10.30	1.62	11.88	1.94	12.60	2.10	13.32	2.27	13.61	2.28	13.90	2.30
	31.00	8.73	1.39	10.30	1.73	11.88	2.07	12.60	2.24	13.32	2.42	13.61	2.43	13.90	2.45
	33.00	8.73	1.48	10.30	1.84	11.88	2.20	12.60	2.39	13.32	2.58	13.61	2.59	13.90	2.61
	35.00	8.73	1.57	10.30	1.96	11.88	2.35	12.60	2.54	13.32	2.74	13.61	2.75	13.90	2.78
	37.00	8.73	1.67	10.30	2.08	11.88	2.49	12.60	2.71	13.32	2.92	13.61	2.93	13.90	2.95
	39.00	8.73	1.68	10.30	2.09	11.88	2.51	12.60	2.72	13.32	2.93	13.61	2.94	13.90	2.97
	41.00	8.73	1.69	10.30	2.10	11.88	2.52	12.60	2.73	13.32	2.94	13.61	2.95	13.90	2.98
43.00	8.73	1.69	10.30	2.11	11.88	2.53	12.60	2.74	13.32	2.96	13.61	2.97	13.90	2.99	
45.00	8.73	1.70	10.30	2.12	11.88	2.54	12.60	2.75	13.32	2.97	13.61	2.98	13.90	3.01	
47.00	8.73	1.71	10.30	2.13	11.88	2.55	12.60	2.77	13.32	2.98	13.61	2.99	13.90	3.02	
48.00	8.73	1.72	10.30	2.14	11.88	2.56	12.60	2.78	13.32	3.00	13.61	3.01	13.90	3.04	



## MDVi-280(10)W/DSN1

TC: total capacity PI: power input

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
130%	10.00	21.26	2.82	25.10	3.51	28.93	4.20	30.70	4.56	32.46	4.92	33.17	4.93	33.88	4.98
	12.00	21.26	2.87	25.10	3.58	28.93	4.28	30.70	4.64	32.46	5.01	33.17	5.02	33.88	5.07
	14.00	21.26	2.92	25.10	3.64	28.93	4.36	30.70	4.73	32.46	5.10	33.17	5.11	33.88	5.16
	16.00	21.26	2.97	25.10	3.71	28.93	4.44	30.70	4.81	32.46	5.19	33.17	5.20	33.88	5.26
	18.00	21.26	3.03	25.10	3.77	28.93	4.52	30.70	4.90	32.46	5.28	33.17	5.30	33.88	5.35
	19.00	21.26	3.08	25.10	3.84	28.93	4.59	30.70	4.98	32.46	5.37	33.17	5.39	33.88	5.44
	21.00	21.26	3.30	25.10	4.11	28.93	4.92	30.70	5.34	32.46	5.76	33.17	5.78	33.88	5.83
	23.00	21.26	3.54	25.10	4.41	28.93	5.27	30.70	5.72	32.46	6.17	33.17	6.19	33.88	6.25
	25.00	21.26	3.78	25.10	4.71	28.93	5.64	30.70	6.12	32.46	6.60	33.17	6.62	33.88	6.68
	27.00	21.26	4.04	25.10	5.04	28.93	6.03	30.70	6.54	32.46	7.05	33.17	7.08	33.88	7.15
	29.00	21.26	4.32	25.10	5.38	28.93	6.44	30.70	6.99	32.46	7.53	33.17	7.56	33.88	7.63
	31.00	21.26	4.61	25.10	5.74	28.93	6.87	30.70	7.45	32.46	8.03	33.17	8.06	33.88	8.14
	33.00	21.26	4.91	25.10	6.11	28.93	7.32	30.70	7.94	32.46	8.56	33.17	8.58	33.88	8.67
	35.00	21.26	5.22	25.10	6.50	28.93	7.79	30.70	8.44	32.46	9.10	33.17	9.13	33.88	9.22
	37.00	21.26	5.55	25.10	6.92	28.93	8.28	30.70	8.98	32.46	9.68	33.17	9.71	33.88	9.81
	39.00	21.26	5.57	25.10	6.95	28.93	8.32	30.70	9.02	32.46	9.72	33.17	9.75	33.88	9.85
	41.00	21.26	5.60	25.10	6.98	28.93	8.35	30.70	9.06	32.46	9.77	33.17	9.80	33.88	9.89
	43.00	21.26	5.63	25.10	7.01	28.93	8.39	30.70	9.10	32.46	9.81	33.17	9.84	33.88	9.94
45.00	21.26	5.65	25.10	7.04	28.93	8.43	30.70	9.15	32.46	9.86	33.17	9.89	33.88	9.98	
47.00	21.26	5.68	25.10	7.07	28.93	8.47	30.70	9.19	32.46	9.90	33.17	9.93	33.88	10.03	
48.00	21.26	5.70	25.10	7.11	28.93	8.51	30.70	9.23	32.46	9.95	33.17	9.98	33.88	10.08	
120%	10.00	20.91	2.79	24.69	3.48	28.46	4.16	30.20	4.52	31.94	4.87	32.63	4.88	33.33	4.93
	12.00	20.91	2.84	24.69	3.54	28.46	4.24	30.20	4.60	31.94	4.96	32.63	4.97	33.33	5.02
	14.00	20.91	2.89	24.69	3.61	28.46	4.32	30.20	4.68	31.94	5.05	32.63	5.06	33.33	5.11
	16.00	20.91	2.95	24.69	3.67	28.46	4.40	30.20	4.77	31.94	5.14	32.63	5.15	33.33	5.20
	18.00	20.91	3.00	24.69	3.73	28.46	4.47	30.20	4.85	31.94	5.23	32.63	5.24	33.33	5.30
	19.00	20.91	3.05	24.69	3.80	28.46	4.55	30.20	4.93	31.94	5.32	32.63	5.34	33.33	5.39
	21.00	20.91	3.27	24.69	4.07	28.46	4.88	30.20	5.29	31.94	5.70	32.63	5.72	33.33	5.78
	23.00	20.91	3.50	24.69	4.36	28.46	5.22	30.20	5.67	31.94	6.11	32.63	6.13	33.33	6.19
	25.00	20.91	3.75	24.69	4.67	28.46	5.59	30.20	6.06	31.94	6.54	32.63	6.56	33.33	6.62
	27.00	20.91	4.01	24.69	4.99	28.46	5.98	30.20	6.48	31.94	6.99	32.63	7.01	33.33	7.08
	29.00	20.91	4.28	24.69	5.33	28.46	6.38	30.20	6.92	31.94	7.46	32.63	7.48	33.33	7.56
	31.00	20.91	4.56	24.69	5.68	28.46	6.80	30.20	7.38	31.94	7.96	32.63	7.98	33.33	8.06
	33.00	20.91	4.86	24.69	6.05	28.46	7.25	30.20	7.86	31.94	8.47	32.63	8.50	33.33	8.58
	35.00	20.91	5.17	24.69	6.44	28.46	7.71	30.20	8.36	31.94	9.02	32.63	9.04	33.33	9.13
	37.00	20.91	5.50	24.69	6.85	28.46	8.20	30.20	8.89	31.94	9.59	32.63	9.62	33.33	9.71
	39.00	20.91	5.52	24.69	6.88	28.46	8.24	30.20	8.93	31.94	9.63	32.63	9.66	33.33	9.75
	41.00	20.91	5.55	24.69	6.91	28.46	8.27	30.20	8.97	31.94	9.67	32.63	9.70	33.33	9.80
	43.00	20.91	5.57	24.69	6.94	28.46	8.31	30.20	9.02	31.94	9.72	32.63	9.75	33.33	9.84
45.00	20.91	5.60	24.69	6.97	28.46	8.35	30.20	9.06	31.94	9.76	32.63	9.79	33.33	9.89	

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
	47.00	20.91	5.62	24.69	7.01	28.46	8.39	30.20	9.10	31.94	9.81	32.63	9.84	33.33	9.93
	48.00	20.91	5.65	24.69	7.04	28.46	8.43	30.20	9.14	31.94	9.85	32.63	9.88	33.33	9.98
110%	10.00	20.57	2.76	24.28	3.44	27.99	4.12	29.70	4.47	31.41	4.82	32.09	4.84	32.77	4.88
	12.00	20.57	2.82	24.28	3.51	27.99	4.20	29.70	4.56	31.41	4.91	32.09	4.93	32.77	4.97
	14.00	20.57	2.87	24.28	3.57	27.99	4.28	29.70	4.64	31.41	5.00	32.09	5.01	32.77	5.06
	16.00	20.57	2.92	24.28	3.63	27.99	4.35	29.70	4.72	31.41	5.09	32.09	5.10	32.77	5.15
	18.00	20.57	2.97	24.28	3.70	27.99	4.43	29.70	4.80	31.41	5.18	32.09	5.19	32.77	5.24
	19.00	20.57	3.02	24.28	3.76	27.99	4.51	29.70	4.89	31.41	5.27	32.09	5.28	32.77	5.33
	21.00	20.57	3.24	24.28	4.03	27.99	4.83	29.70	5.24	31.41	5.65	32.09	5.66	32.77	5.72
	23.00	20.57	3.47	24.28	4.32	27.99	5.17	29.70	5.61	31.41	6.05	32.09	6.07	32.77	6.13
	25.00	20.57	3.71	24.28	4.62	27.99	5.54	29.70	6.00	31.41	6.47	32.09	6.49	32.77	6.56
	27.00	20.57	3.97	24.28	4.94	27.99	5.92	29.70	6.42	31.41	6.92	32.09	6.94	32.77	7.01
	29.00	20.57	4.24	24.28	5.28	27.99	6.32	29.70	6.85	31.41	7.39	32.09	7.41	32.77	7.48
	31.00	20.57	4.52	24.28	5.63	27.99	6.74	29.70	7.31	31.41	7.88	32.09	7.90	32.77	7.98
	33.00	20.57	4.81	24.28	5.99	27.99	7.18	29.70	7.79	31.41	8.39	32.09	8.42	32.77	8.50
	35.00	20.57	5.12	24.28	6.38	27.99	7.64	29.70	8.28	31.41	8.93	32.09	8.96	32.77	9.04
	37.00	20.57	5.44	24.28	6.78	27.99	8.12	29.70	8.81	31.41	9.50	32.09	9.52	32.77	9.62
	39.00	20.57	5.47	24.28	6.81	27.99	8.16	29.70	8.85	31.41	9.54	32.09	9.57	32.77	9.66
	41.00	20.57	5.49	24.28	6.84	27.99	8.19	29.70	8.89	31.41	9.58	32.09	9.61	32.77	9.70
	43.00	20.57	5.52	24.28	6.87	27.99	8.23	29.70	8.93	31.41	9.62	32.09	9.65	32.77	9.75
45.00	20.57	5.54	24.28	6.91	27.99	8.27	29.70	8.97	31.41	9.67	32.09	9.70	32.77	9.79	
47.00	20.57	5.57	24.28	6.94	27.99	8.31	29.70	9.01	31.41	9.71	32.09	9.74	32.77	9.84	
48.00	20.57	5.59	24.28	6.97	27.99	8.35	29.70	9.05	31.41	9.76	32.09	9.79	32.77	9.88	
100%	10.00	19.39	2.58	22.89	3.21	26.39	3.85	28.00	4.17	29.61	4.50	30.25	4.51	30.90	4.56
	12.00	19.39	2.63	22.89	3.27	26.39	3.92	28.00	4.25	29.61	4.58	30.25	4.60	30.90	4.64
	14.00	19.39	2.68	22.89	3.33	26.39	3.99	28.00	4.33	29.61	4.67	30.25	4.68	30.90	4.73
	16.00	19.39	2.72	22.89	3.39	26.39	4.06	28.00	4.41	29.61	4.75	30.25	4.76	30.90	4.81
	18.00	19.39	2.77	22.89	3.45	26.39	4.13	28.00	4.48	29.61	4.83	30.25	4.85	30.90	4.89
	19.00	19.39	2.82	22.89	3.51	26.39	4.20	28.00	4.56	29.61	4.92	30.25	4.93	30.90	4.98
	21.00	19.39	3.02	22.89	3.76	26.39	4.51	28.00	4.89	29.61	5.27	30.25	5.29	30.90	5.34
	23.00	19.39	3.24	22.89	4.03	26.39	4.83	28.00	5.24	29.61	5.65	30.25	5.66	30.90	5.72
	25.00	19.39	3.46	22.89	4.32	26.39	5.17	28.00	5.60	29.61	6.04	30.25	6.06	30.90	6.12
	27.00	19.39	3.70	22.89	4.61	26.39	5.52	28.00	5.99	29.61	6.46	30.25	6.48	30.90	6.54
	29.00	19.39	3.95	22.89	4.93	26.39	5.90	28.00	6.40	29.61	6.90	30.25	6.92	30.90	6.98
	31.00	19.39	4.22	22.89	5.25	26.39	6.29	28.00	6.82	29.61	7.35	30.25	7.38	30.90	7.45
	33.00	19.39	4.49	22.89	5.59	26.39	6.70	28.00	7.27	29.61	7.83	30.25	7.86	30.90	7.93
	35.00	19.39	4.78	22.89	5.95	26.39	7.13	28.00	7.73	29.61	8.33	30.25	8.36	30.90	8.44
	37.00	19.39	5.08	22.89	6.33	26.39	7.58	28.00	8.22	29.61	8.86	30.25	8.89	30.90	8.98
	39.00	19.39	5.10	22.89	6.36	26.39	7.61	28.00	8.26	29.61	8.90	30.25	8.93	30.90	9.02
	41.00	19.39	5.13	22.89	6.39	26.39	7.65	28.00	8.29	29.61	8.94	30.25	8.97	30.90	9.06
	43.00	19.39	5.15	22.89	6.42	26.39	7.68	28.00	8.33	29.61	8.98	30.25	9.01	30.90	9.10

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
	45.00	19.39	5.17	22.89	6.45	26.39	7.72	28.00	8.37	29.61	9.02	30.25	9.05	30.90	9.14
	47.00	19.39	5.20	22.89	6.48	26.39	7.75	28.00	8.41	29.61	9.07	30.25	9.09	30.90	9.18
	48.00	19.39	5.22	22.89	6.51	26.39	7.79	28.00	8.45	29.61	9.11	30.25	9.14	30.90	9.22
90%	10.00	17.45	2.23	20.60	2.78	23.75	3.33	25.20	3.61	26.65	3.89	27.23	3.90	27.81	3.94
	12.00	17.45	2.27	20.60	2.83	23.75	3.39	25.20	3.68	26.65	3.96	27.23	3.97	27.81	4.01
	14.00	17.45	2.31	20.60	2.88	23.75	3.45	25.20	3.74	26.65	4.03	27.23	4.05	27.81	4.09
	16.00	17.45	2.35	20.60	2.93	23.75	3.51	25.20	3.81	26.65	4.11	27.23	4.12	27.81	4.16
	18.00	17.45	2.40	20.60	2.98	23.75	3.57	25.20	3.88	26.65	4.18	27.23	4.19	27.81	4.23
	19.00	17.45	2.44	20.60	3.04	23.75	3.64	25.20	3.94	26.65	4.25	27.23	4.26	27.81	4.30
	21.00	17.45	2.61	20.60	3.25	23.75	3.90	25.20	4.23	26.65	4.56	27.23	4.57	27.81	4.61
	23.00	17.45	2.80	20.60	3.49	23.75	4.17	25.20	4.53	26.65	4.88	27.23	4.90	27.81	4.94
	25.00	17.45	2.99	20.60	3.73	23.75	4.47	25.20	4.84	26.65	5.22	27.23	5.24	27.81	5.29
	27.00	17.45	3.20	20.60	3.99	23.75	4.78	25.20	5.18	26.65	5.58	27.23	5.60	27.81	5.65
	29.00	17.45	3.42	20.60	4.26	23.75	5.10	25.20	5.53	26.65	5.96	27.23	5.98	27.81	6.04
	31.00	17.45	3.64	20.60	4.54	23.75	5.44	25.20	5.90	26.65	6.36	27.23	6.38	27.81	6.44
	33.00	17.45	3.88	20.60	4.84	23.75	5.79	25.20	6.28	26.65	6.77	27.23	6.79	27.81	6.86
	35.00	17.45	4.13	20.60	5.15	23.75	6.16	25.20	6.68	26.65	7.20	27.23	7.23	27.81	7.30
	37.00	17.45	4.39	20.60	5.47	23.75	6.55	25.20	7.11	26.65	7.66	27.23	7.69	27.81	7.76
	39.00	17.45	4.41	20.60	5.50	23.75	6.58	25.20	7.14	26.65	7.70	27.23	7.72	27.81	7.79
	41.00	17.45	4.43	20.60	5.52	23.75	6.61	25.20	7.17	26.65	7.73	27.23	7.75	27.81	7.83
	43.00	17.45	4.45	20.60	5.55	23.75	6.64	25.20	7.20	26.65	7.77	27.23	7.79	27.81	7.87
	45.00	17.45	4.47	20.60	5.57	23.75	6.67	25.20	7.24	26.65	7.80	27.23	7.83	27.81	7.90
47.00	17.45	4.49	20.60	5.60	23.75	6.70	25.20	7.27	26.65	7.84	27.23	7.86	27.81	7.94	
48.00	17.45	4.51	20.60	5.62	23.75	6.73	25.20	7.30	26.65	7.87	27.23	7.90	27.81	7.97	
80%	10.00	15.51	1.90	18.31	2.37	21.11	2.84	22.40	3.08	23.69	3.32	24.20	3.33	24.72	3.37
	12.00	15.51	1.94	18.31	2.42	21.11	2.89	22.40	3.14	23.69	3.38	24.20	3.39	24.72	3.43
	14.00	15.51	1.98	18.31	2.46	21.11	2.95	22.40	3.20	23.69	3.45	24.20	3.46	24.72	3.49
	16.00	15.51	2.01	18.31	2.51	21.11	3.00	22.40	3.25	23.69	3.51	24.20	3.52	24.72	3.55
	18.00	15.51	2.05	18.31	2.55	21.11	3.05	22.40	3.31	23.69	3.57	24.20	3.58	24.72	3.61
	19.00	15.51	2.08	18.31	2.59	21.11	3.11	22.40	3.37	23.69	3.63	24.20	3.64	24.72	3.68
	21.00	15.51	2.23	18.31	2.78	21.11	3.33	22.40	3.61	23.69	3.89	24.20	3.90	24.72	3.94
	23.00	15.51	2.39	18.31	2.98	21.11	3.57	22.40	3.87	23.69	4.17	24.20	4.18	24.72	4.22
	25.00	15.51	2.56	18.31	3.19	21.11	3.82	22.40	4.14	23.69	4.46	24.20	4.47	24.72	4.52
	27.00	15.51	2.73	18.31	3.41	21.11	4.08	22.40	4.42	23.69	4.77	24.20	4.78	24.72	4.83
	29.00	15.51	2.92	18.31	3.64	21.11	4.36	22.40	4.72	23.69	5.09	24.20	5.11	24.72	5.16
	31.00	15.51	3.11	18.31	3.88	21.11	4.64	22.40	5.04	23.69	5.43	24.20	5.45	24.72	5.50
	33.00	15.51	3.32	18.31	4.13	21.11	4.95	22.40	5.37	23.69	5.78	24.20	5.80	24.72	5.86
	35.00	15.51	3.53	18.31	4.40	21.11	5.26	22.40	5.71	23.69	6.15	24.20	6.17	24.72	6.23
37.00	15.51	3.75	18.31	4.67	21.11	5.60	22.40	6.07	23.69	6.54	24.20	6.56	24.72	6.63	
39.00	15.51	3.77	18.31	4.70	21.11	5.62	22.40	6.10	23.69	6.57	24.20	6.59	24.72	6.66	
41.00	15.51	3.79	18.31	4.72	21.11	5.65	22.40	6.12	23.69	6.60	24.20	6.62	24.72	6.69	

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
	43.00	15.51	3.80	18.31	4.74	21.11	5.67	22.40	6.15	23.69	6.63	24.20	6.65	24.72	6.72
	45.00	15.51	3.82	18.31	4.76	21.11	5.70	22.40	6.18	23.69	6.66	24.20	6.68	24.72	6.75
	47.00	15.51	3.84	18.31	4.78	21.11	5.73	22.40	6.21	23.69	6.69	24.20	6.72	24.72	6.78
	48.00	15.51	3.86	18.31	4.80	21.11	5.75	22.40	6.24	23.69	6.73	24.20	6.75	24.72	6.81
70%	10.00	13.57	1.60	16.02	2.00	18.47	2.39	19.60	2.60	20.73	2.80	21.18	2.81	21.63	2.83
	12.00	13.57	1.63	16.02	2.04	18.47	2.44	19.60	2.64	20.73	2.85	21.18	2.86	21.63	2.89
	14.00	13.57	1.66	16.02	2.07	18.47	2.48	19.60	2.69	20.73	2.90	21.18	2.91	21.63	2.94
	16.00	13.57	1.69	16.02	2.11	18.47	2.53	19.60	2.74	20.73	2.95	21.18	2.96	21.63	2.99
	18.00	13.57	1.72	16.02	2.15	18.47	2.57	19.60	2.79	20.73	3.01	21.18	3.01	21.63	3.04
	19.00	13.57	1.75	16.02	2.18	18.47	2.61	19.60	2.84	20.73	3.06	21.18	3.07	21.63	3.10
	21.00	13.57	1.88	16.02	2.34	18.47	2.80	19.60	3.04	20.73	3.28	21.18	3.29	21.63	3.32
	23.00	13.57	2.01	16.02	2.51	18.47	3.00	19.60	3.26	20.73	3.51	21.18	3.52	21.63	3.56
	25.00	13.57	2.15	16.02	2.68	18.47	3.21	19.60	3.49	20.73	3.76	21.18	3.77	21.63	3.80
	27.00	13.57	2.30	16.02	2.87	18.47	3.43	19.60	3.73	20.73	4.02	21.18	4.03	21.63	4.07
	29.00	13.57	2.46	16.02	3.06	18.47	3.67	19.60	3.98	20.73	4.29	21.18	4.30	21.63	4.34
	31.00	13.57	2.62	16.02	3.27	18.47	3.91	19.60	4.24	20.73	4.57	21.18	4.59	21.63	4.63
	33.00	13.57	2.79	16.02	3.48	18.47	4.17	19.60	4.52	20.73	4.87	21.18	4.89	21.63	4.93
	35.00	13.57	2.97	16.02	3.70	18.47	4.43	19.60	4.81	20.73	5.18	21.18	5.20	21.63	5.25
	37.00	13.57	3.16	16.02	3.94	18.47	4.71	19.60	5.11	20.73	5.51	21.18	5.53	21.63	5.58
	39.00	13.57	3.17	16.02	3.95	18.47	4.73	19.60	5.13	20.73	5.54	21.18	5.55	21.63	5.61
	41.00	13.57	3.19	16.02	3.97	18.47	4.76	19.60	5.16	20.73	5.56	21.18	5.58	21.63	5.63
43.00	13.57	3.20	16.02	3.99	18.47	4.78	19.60	5.18	20.73	5.59	21.18	5.60	21.63	5.66	
45.00	13.57	3.22	16.02	4.01	18.47	4.80	19.60	5.21	20.73	5.61	21.18	5.63	21.63	5.68	
47.00	13.57	3.23	16.02	4.03	18.47	4.82	19.60	5.23	20.73	5.64	21.18	5.66	21.63	5.71	
48.00	13.57	3.25	16.02	4.05	18.47	4.84	19.60	5.25	20.73	5.66	21.18	5.68	21.63	5.74	
60%	10.00	11.63	1.33	13.73	1.65	15.83	1.98	16.80	2.15	17.77	2.32	18.15	2.32	18.54	2.35
	12.00	11.63	1.35	13.73	1.68	15.83	2.02	16.80	2.19	17.77	2.36	18.15	2.37	18.54	2.39
	14.00	11.63	1.38	13.73	1.72	15.83	2.05	16.80	2.23	17.77	2.40	18.15	2.41	18.54	2.43
	16.00	11.63	1.40	13.73	1.75	15.83	2.09	16.80	2.27	17.77	2.44	18.15	2.45	18.54	2.48
	18.00	11.63	1.43	13.73	1.78	15.83	2.13	16.80	2.31	17.77	2.49	18.15	2.50	18.54	2.52
	19.00	11.63	1.45	13.73	1.81	15.83	2.16	16.80	2.35	17.77	2.53	18.15	2.54	18.54	2.56
	21.00	11.63	1.56	13.73	1.94	15.83	2.32	16.80	2.52	17.77	2.71	18.15	2.72	18.54	2.75
	23.00	11.63	1.67	13.73	2.08	15.83	2.49	16.80	2.70	17.77	2.91	18.15	2.91	18.54	2.94
	25.00	11.63	1.78	13.73	2.22	15.83	2.66	16.80	2.88	17.77	3.11	18.15	3.12	18.54	3.15
	27.00	11.63	1.91	13.73	2.37	15.83	2.84	16.80	3.08	17.77	3.32	18.15	3.33	18.54	3.37
	29.00	11.63	2.03	13.73	2.54	15.83	3.04	16.80	3.29	17.77	3.55	18.15	3.56	18.54	3.59
	31.00	11.63	2.17	13.73	2.70	15.83	3.24	16.80	3.51	17.77	3.79	18.15	3.80	18.54	3.83
	33.00	11.63	2.31	13.73	2.88	15.83	3.45	16.80	3.74	17.77	4.03	18.15	4.04	18.54	4.08
	35.00	11.63	2.46	13.73	3.06	15.83	3.67	16.80	3.98	17.77	4.29	18.15	4.30	18.54	4.34
37.00	11.63	2.62	13.73	3.26	15.83	3.90	16.80	4.23	17.77	4.56	18.15	4.58	18.54	4.62	
39.00	11.63	2.63	13.73	3.27	15.83	3.92	16.80	4.25	17.77	4.58	18.15	4.60	18.54	4.64	

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
	41.00	11.63	2.64	13.73	3.29	15.83	3.94	16.80	4.27	17.77	4.60	18.15	4.62	18.54	4.66
	43.00	11.63	2.65	13.73	3.30	15.83	3.95	16.80	4.29	17.77	4.62	18.15	4.64	18.54	4.68
	45.00	11.63	2.66	13.73	3.32	15.83	3.97	16.80	4.31	17.77	4.64	18.15	4.66	18.54	4.70
	47.00	11.63	2.68	13.73	3.33	15.83	3.99	16.80	4.33	17.77	4.67	18.15	4.68	18.54	4.73
	48.00	11.63	2.69	13.73	3.35	15.83	4.01	16.80	4.35	17.77	4.69	18.15	4.70	18.54	4.75
50%	10.00	9.70	1.08	11.45	1.34	13.20	1.60	14.00	1.74	14.81	1.88	15.13	1.88	15.45	1.90
	12.00	9.70	1.10	11.45	1.37	13.20	1.63	14.00	1.77	14.81	1.91	15.13	1.92	15.45	1.94
	14.00	9.70	1.12	11.45	1.39	13.20	1.66	14.00	1.81	14.81	1.95	15.13	1.95	15.45	1.97
	16.00	9.70	1.14	11.45	1.41	13.20	1.69	14.00	1.84	14.81	1.98	15.13	1.99	15.45	2.01
	18.00	9.70	1.16	11.45	1.44	13.20	1.72	14.00	1.87	14.81	2.02	15.13	2.02	15.45	2.04
	19.00	9.70	1.18	11.45	1.46	13.20	1.75	14.00	1.90	14.81	2.05	15.13	2.06	15.45	2.08
	21.00	9.70	1.26	11.45	1.57	13.20	1.88	14.00	2.04	14.81	2.20	15.13	2.20	15.45	2.23
	23.00	9.70	1.35	11.45	1.68	13.20	2.01	14.00	2.18	14.81	2.35	15.13	2.36	15.45	2.38
	25.00	9.70	1.44	11.45	1.80	13.20	2.15	14.00	2.34	14.81	2.52	15.13	2.53	15.45	2.55
	27.00	9.70	1.54	11.45	1.92	13.20	2.30	14.00	2.50	14.81	2.69	15.13	2.70	15.45	2.73
	29.00	9.70	1.65	11.45	2.05	13.20	2.46	14.00	2.67	14.81	2.88	15.13	2.88	15.45	2.91
	31.00	9.70	1.76	11.45	2.19	13.20	2.62	14.00	2.84	14.81	3.07	15.13	3.08	15.45	3.11
	33.00	9.70	1.87	11.45	2.33	13.20	2.79	14.00	3.03	14.81	3.27	15.13	3.28	15.45	3.31
	35.00	9.70	1.99	11.45	2.48	13.20	2.97	14.00	3.22	14.81	3.47	15.13	3.49	15.45	3.52
	37.00	9.70	2.12	11.45	2.64	13.20	3.16	14.00	3.43	14.81	3.70	15.13	3.71	15.45	3.74
	39.00	9.70	2.13	11.45	2.65	13.20	3.17	14.00	3.44	14.81	3.71	15.13	3.72	15.45	3.76
	41.00	9.70	2.14	11.45	2.66	13.20	3.19	14.00	3.46	14.81	3.73	15.13	3.74	15.45	3.78
	43.00	9.70	2.15	11.45	2.68	13.20	3.20	14.00	3.47	14.81	3.75	15.13	3.76	15.45	3.79
45.00	9.70	2.16	11.45	2.69	13.20	3.22	14.00	3.49	14.81	3.76	15.13	3.77	15.45	3.81	
47.00	9.70	2.17	11.45	2.70	13.20	3.23	14.00	3.51	14.81	3.78	15.13	3.79	15.45	3.83	
48.00	9.70	2.18	11.45	2.71	13.20	3.25	14.00	3.52	14.81	3.80	15.13	3.81	15.45	3.85	

**MDVi-335(12)W/DSN1**

**TC:** total capacity    **PI:** power input

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
130%	10.00	25.44	3.60	30.03	4.49	34.62	5.37	36.73	5.83	38.84	6.28	39.69	6.30	40.53	6.36
	12.00	25.44	3.67	30.03	4.57	34.62	5.47	36.73	5.94	38.84	6.40	39.69	6.42	40.53	6.48
	14.00	25.44	3.74	30.03	4.65	34.62	5.57	36.73	6.04	38.84	6.52	39.69	6.54	40.53	6.60
	16.00	25.44	3.80	30.03	4.74	34.62	5.67	36.73	6.15	38.84	6.63	39.69	6.65	40.53	6.72
	18.00	25.44	3.87	30.03	4.82	34.62	5.77	36.73	6.26	38.84	6.75	39.69	6.77	40.53	6.83
	19.00	25.44	3.94	30.03	4.90	34.62	5.87	36.73	6.37	38.84	6.86	39.69	6.89	40.53	6.95
	21.00	25.44	4.22	30.03	5.26	34.62	6.29	36.73	6.83	38.84	7.36	39.69	7.38	40.53	7.45
	23.00	25.44	4.52	30.03	5.63	34.62	6.74	36.73	7.31	38.84	7.88	39.69	7.91	40.53	7.98
	25.00	25.44	4.84	30.03	6.03	34.62	7.21	36.73	7.82	38.84	8.44	39.69	8.46	40.53	8.54
	27.00	25.44	5.17	30.03	6.44	34.62	7.71	36.73	8.36	38.84	9.02	39.69	9.04	40.53	9.13
	29.00	25.44	5.52	30.03	6.88	34.62	8.23	36.73	8.93	38.84	9.63	39.69	9.66	40.53	9.75
	31.00	25.44	5.89	30.03	7.33	34.62	8.78	36.73	9.52	38.84	10.27	39.69	10.30	40.53	10.40
	33.00	25.44	6.27	30.03	7.81	34.62	9.35	36.73	10.15	38.84	10.94	39.69	10.97	40.53	11.08
	35.00	25.44	6.67	30.03	8.31	34.62	9.95	36.73	10.79	38.84	11.63	39.69	11.67	40.53	11.78
	37.00	25.44	7.09	30.03	8.84	34.62	10.58	36.73	11.48	38.84	12.37	39.69	12.41	40.53	12.53
	39.00	25.44	7.12	30.03	8.88	34.62	10.63	36.73	11.53	38.84	12.43	39.69	12.47	40.53	12.59
	41.00	25.44	7.16	30.03	8.92	34.62	10.68	36.73	11.58	38.84	12.48	39.69	12.52	40.53	12.64
	43.00	25.44	7.19	30.03	8.96	34.62	10.73	36.73	11.63	38.84	12.54	39.69	12.58	40.53	12.70
45.00	25.44	7.22	30.03	9.00	34.62	10.78	36.73	11.69	38.84	12.60	39.69	12.64	40.53	12.76	
47.00	25.44	7.26	30.03	9.04	34.62	10.83	36.73	11.74	38.84	12.66	39.69	12.70	40.53	12.82	
48.00	25.44	7.29	30.03	9.08	34.62	10.88	36.73	11.80	38.84	12.72	39.69	12.76	40.53	12.88	
120%	10.00	25.02	3.57	29.54	4.44	34.05	5.32	36.13	5.77	38.21	6.22	39.04	6.24	39.87	6.30
	12.00	25.02	3.63	29.54	4.53	34.05	5.42	36.13	5.88	38.21	6.34	39.04	6.36	39.87	6.42
	14.00	25.02	3.70	29.54	4.61	34.05	5.52	36.13	5.99	38.21	6.45	39.04	6.47	39.87	6.54
	16.00	25.02	3.77	29.54	4.69	34.05	5.62	36.13	6.09	38.21	6.57	39.04	6.59	39.87	6.65
	18.00	25.02	3.83	29.54	4.77	34.05	5.72	36.13	6.20	38.21	6.68	39.04	6.70	39.87	6.77
	19.00	25.02	3.90	29.54	4.86	34.05	5.81	36.13	6.31	38.21	6.80	39.04	6.82	39.87	6.89
	21.00	25.02	4.18	29.54	5.21	34.05	6.23	36.13	6.76	38.21	7.29	39.04	7.31	39.87	7.38
	23.00	25.02	4.48	29.54	5.58	34.05	6.68	36.13	7.24	38.21	7.81	39.04	7.83	39.87	7.91
	25.00	25.02	4.79	29.54	5.97	34.05	7.15	36.13	7.75	38.21	8.35	39.04	8.38	39.87	8.46
	27.00	25.02	5.12	29.54	6.38	34.05	7.64	36.13	8.28	38.21	8.93	39.04	8.96	39.87	9.04
	29.00	25.02	5.47	29.54	6.81	34.05	8.16	36.13	8.85	38.21	9.54	39.04	9.56	39.87	9.66
	31.00	25.02	5.83	29.54	7.26	34.05	8.70	36.13	9.43	38.21	10.17	39.04	10.20	39.87	10.30
	33.00	25.02	6.21	29.54	7.74	34.05	9.26	36.13	10.05	38.21	10.83	39.04	10.86	39.87	10.97
	35.00	25.02	6.61	29.54	8.23	34.05	9.86	36.13	10.69	38.21	11.52	39.04	11.56	39.87	11.67
	37.00	25.02	7.03	29.54	8.75	34.05	10.48	36.13	11.37	38.21	12.26	39.04	12.29	39.87	12.41
	39.00	25.02	7.06	29.54	8.79	34.05	10.53	36.13	11.42	38.21	12.31	39.04	12.35	39.87	12.47
	41.00	25.02	7.09	29.54	8.83	34.05	10.57	36.13	11.47	38.21	12.36	39.04	12.40	39.87	12.52
	43.00	25.02	7.12	29.54	8.87	34.05	10.62	36.13	11.52	38.21	12.42	39.04	12.46	39.87	12.58
45.00	25.02	7.15	29.54	8.91	34.05	10.67	36.13	11.58	38.21	12.48	39.04	12.52	39.87	12.64	

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
	47.00	25.02	7.19	29.54	8.95	34.05	10.72	36.13	11.63	38.21	12.54	39.04	12.58	39.87	12.70
	48.00	25.02	7.22	29.54	9.00	34.05	10.77	36.13	11.68	38.21	12.59	39.04	12.63	39.87	12.76
110%	10.00	24.61	3.53	29.05	4.40	33.49	5.27	35.53	5.72	37.58	6.16	38.39	6.18	39.21	6.24
	12.00	24.61	3.60	29.05	4.48	33.49	5.37	35.53	5.82	37.58	6.28	38.39	6.30	39.21	6.36
	14.00	24.61	3.66	29.05	4.56	33.49	5.47	35.53	5.93	37.58	6.39	38.39	6.41	39.21	6.47
	16.00	24.61	3.73	29.05	4.65	33.49	5.56	35.53	6.03	37.58	6.50	38.39	6.52	39.21	6.59
	18.00	24.61	3.79	29.05	4.73	33.49	5.66	35.53	6.14	37.58	6.62	38.39	6.64	39.21	6.70
	19.00	24.61	3.86	29.05	4.81	33.49	5.76	35.53	6.25	37.58	6.73	38.39	6.75	39.21	6.82
	21.00	24.61	4.14	29.05	5.16	33.49	6.17	35.53	6.70	37.58	7.22	38.39	7.24	39.21	7.31
	23.00	24.61	4.43	29.05	5.52	33.49	6.61	35.53	7.17	37.58	7.73	38.39	7.75	39.21	7.83
	25.00	24.61	4.74	29.05	5.91	33.49	7.08	35.53	7.67	37.58	8.27	38.39	8.30	39.21	8.38
	27.00	24.61	5.07	29.05	6.32	33.49	7.56	35.53	8.20	37.58	8.84	38.39	8.87	39.21	8.96
	29.00	24.61	5.41	29.05	6.74	33.49	8.08	35.53	8.76	37.58	9.44	38.39	9.47	39.21	9.56
	31.00	24.61	5.77	29.05	7.19	33.49	8.61	35.53	9.34	37.58	10.07	38.39	10.10	39.21	10.20
	33.00	24.61	6.15	29.05	7.66	33.49	9.17	35.53	9.95	37.58	10.73	38.39	10.76	39.21	10.86
	35.00	24.61	6.54	29.05	8.15	33.49	9.76	35.53	10.59	37.58	11.41	38.39	11.45	39.21	11.56
	37.00	24.61	6.96	29.05	8.67	33.49	10.38	35.53	11.26	37.58	12.14	38.39	12.17	39.21	12.29
	39.00	24.61	6.99	29.05	8.71	33.49	10.43	35.53	11.31	37.58	12.19	38.39	12.23	39.21	12.35
	41.00	24.61	7.02	29.05	8.75	33.49	10.47	35.53	11.36	37.58	12.24	38.39	12.28	39.21	12.40
	43.00	24.61	7.05	29.05	8.79	33.49	10.52	35.53	11.41	37.58	12.30	38.39	12.34	39.21	12.46
45.00	24.61	7.08	29.05	8.83	33.49	10.57	35.53	11.46	37.58	12.36	38.39	12.40	39.21	12.52	
47.00	24.61	7.12	29.05	8.87	33.49	10.62	35.53	11.52	37.58	12.42	38.39	12.45	39.21	12.57	
48.00	24.61	7.15	29.05	8.91	33.49	10.67	35.53	11.57	37.58	12.47	38.39	12.51	39.21	12.63	
100%	10.00	23.20	3.30	27.39	4.11	31.57	4.92	33.50	5.34	35.43	5.75	36.20	5.77	36.97	5.82
	12.00	23.20	3.36	27.39	4.18	31.57	5.01	33.50	5.43	35.43	5.86	36.20	5.88	36.97	5.93
	14.00	23.20	3.42	27.39	4.26	31.57	5.10	33.50	5.53	35.43	5.96	36.20	5.98	36.97	6.04
	16.00	23.20	3.48	27.39	4.34	31.57	5.19	33.50	5.63	35.43	6.07	36.20	6.09	36.97	6.15
	18.00	23.20	3.54	27.39	4.41	31.57	5.28	33.50	5.73	35.43	6.18	36.20	6.20	36.97	6.26
	19.00	23.20	3.60	27.39	4.49	31.57	5.37	33.50	5.83	35.43	6.28	36.20	6.30	36.97	6.36
	21.00	23.20	3.86	27.39	4.81	31.57	5.76	33.50	6.25	35.43	6.74	36.20	6.76	36.97	6.82
	23.00	23.20	4.14	27.39	5.15	31.57	6.17	33.50	6.69	35.43	7.22	36.20	7.24	36.97	7.31
	25.00	23.20	4.43	27.39	5.52	31.57	6.60	33.50	7.16	35.43	7.72	36.20	7.75	36.97	7.82
	27.00	23.20	4.73	27.39	5.90	31.57	7.06	33.50	7.66	35.43	8.25	36.20	8.28	36.97	8.36
	29.00	23.20	5.05	27.39	6.30	31.57	7.54	33.50	8.18	35.43	8.81	36.20	8.84	36.97	8.93
	31.00	23.20	5.39	27.39	6.71	31.57	8.04	33.50	8.72	35.43	9.40	36.20	9.43	36.97	9.52
	33.00	23.20	5.74	27.39	7.15	31.57	8.56	33.50	9.29	35.43	10.01	36.20	10.04	36.97	10.14
	35.00	23.20	6.11	27.39	7.61	31.57	9.11	33.50	9.88	35.43	10.65	36.20	10.68	36.97	10.79
	37.00	23.20	6.49	27.39	8.09	31.57	9.69	33.50	10.51	35.43	11.33	36.20	11.36	36.97	11.47
	39.00	23.20	6.52	27.39	8.13	31.57	9.73	33.50	10.55	35.43	11.38	36.20	11.41	36.97	11.52
	41.00	23.20	6.55	27.39	8.16	31.57	9.77	33.50	10.60	35.43	11.43	36.20	11.46	36.97	11.57
	43.00	23.20	6.58	27.39	8.20	31.57	9.82	33.50	10.65	35.43	11.48	36.20	11.52	36.97	11.63

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
	45.00	23.20	6.61	27.39	8.24	31.57	9.87	33.50	10.70	35.43	11.53	36.20	11.57	36.97	11.68
	47.00	23.20	6.64	27.39	8.28	31.57	9.91	33.50	10.75	35.43	11.59	36.20	11.62	36.97	11.74
	48.00	23.20	6.67	27.39	8.32	31.57	9.96	33.50	10.80	35.43	11.64	36.20	11.68	36.97	11.79
90%	10.00	20.88	2.85	24.65	3.55	28.42	4.25	30.15	4.61	31.88	4.97	32.58	4.99	33.27	5.04
	12.00	20.88	2.90	24.65	3.62	28.42	4.33	30.15	4.70	31.88	5.06	32.58	5.08	33.27	5.13
	14.00	20.88	2.96	24.65	3.68	28.42	4.41	30.15	4.78	31.88	5.16	32.58	5.17	33.27	5.22
	16.00	20.88	3.01	24.65	3.75	28.42	4.49	30.15	4.87	31.88	5.25	32.58	5.26	33.27	5.32
	18.00	20.88	3.06	24.65	3.81	28.42	4.57	30.15	4.95	31.88	5.34	32.58	5.36	33.27	5.41
	19.00	20.88	3.11	24.65	3.88	28.42	4.65	30.15	5.04	31.88	5.43	32.58	5.45	33.27	5.50
	21.00	20.88	3.34	24.65	4.16	28.42	4.98	30.15	5.40	31.88	5.82	32.58	5.84	33.27	5.90
	23.00	20.88	3.58	24.65	4.46	28.42	5.34	30.15	5.79	31.88	6.24	32.58	6.26	33.27	6.32
	25.00	20.88	3.83	24.65	4.77	28.42	5.71	30.15	6.19	31.88	6.68	32.58	6.70	33.27	6.76
	27.00	20.88	4.09	24.65	5.10	28.42	6.10	30.15	6.62	31.88	7.14	32.58	7.16	33.27	7.23
	29.00	20.88	4.37	24.65	5.44	28.42	6.52	30.15	7.07	31.88	7.62	32.58	7.64	33.27	7.72
	31.00	20.88	4.66	24.65	5.80	28.42	6.95	30.15	7.54	31.88	8.13	32.58	8.15	33.27	8.23
	33.00	20.88	4.96	24.65	6.18	28.42	7.40	30.15	8.03	31.88	8.66	32.58	8.68	33.27	8.77
	35.00	20.88	5.28	24.65	6.58	28.42	7.88	30.15	8.54	31.88	9.21	32.58	9.24	33.27	9.33
	37.00	20.88	5.61	24.65	7.00	28.42	8.38	30.15	9.08	31.88	9.79	32.58	9.82	33.27	9.92
	39.00	20.88	5.64	24.65	7.03	28.42	8.41	30.15	9.12	31.88	9.84	32.58	9.87	33.27	9.96
	41.00	20.88	5.66	24.65	7.06	28.42	8.45	30.15	9.16	31.88	9.88	32.58	9.91	33.27	10.01
	43.00	20.88	5.69	24.65	7.09	28.42	8.49	30.15	9.21	31.88	9.93	32.58	9.96	33.27	10.05
45.00	20.88	5.72	24.65	7.12	28.42	8.53	30.15	9.25	31.88	9.97	32.58	10.00	33.27	10.10	
47.00	20.88	5.74	24.65	7.16	28.42	8.57	30.15	9.29	31.88	10.02	32.58	10.05	33.27	10.15	
48.00	20.88	5.77	24.65	7.19	28.42	8.61	30.15	9.34	31.88	10.06	32.58	10.09	33.27	10.19	
80%	10.00	18.56	2.43	21.91	3.03	25.26	3.63	26.80	3.94	28.34	4.25	28.96	4.26	29.57	4.30
	12.00	18.56	2.48	21.91	3.09	25.26	3.70	26.80	4.01	28.34	4.33	28.96	4.34	29.57	4.38
	14.00	18.56	2.52	21.91	3.15	25.26	3.77	26.80	4.09	28.34	4.40	28.96	4.42	29.57	4.46
	16.00	18.56	2.57	21.91	3.20	25.26	3.83	26.80	4.16	28.34	4.48	28.96	4.50	29.57	4.54
	18.00	18.56	2.62	21.91	3.26	25.26	3.90	26.80	4.23	28.34	4.56	28.96	4.58	29.57	4.62
	19.00	18.56	2.66	21.91	3.31	25.26	3.97	26.80	4.30	28.34	4.64	28.96	4.65	29.57	4.70
	21.00	18.56	2.85	21.91	3.55	25.26	4.25	26.80	4.61	28.34	4.97	28.96	4.99	29.57	5.04
	23.00	18.56	3.05	21.91	3.81	25.26	4.56	26.80	4.94	28.34	5.33	28.96	5.34	29.57	5.40
	25.00	18.56	3.27	21.91	4.07	25.26	4.88	26.80	5.29	28.34	5.70	28.96	5.72	29.57	5.78
	27.00	18.56	3.49	21.91	4.35	25.26	5.21	26.80	5.65	28.34	6.10	28.96	6.11	29.57	6.17
	29.00	18.56	3.73	21.91	4.65	25.26	5.57	26.80	6.04	28.34	6.51	28.96	6.53	29.57	6.59
	31.00	18.56	3.98	21.91	4.96	25.26	5.94	26.80	6.44	28.34	6.94	28.96	6.96	29.57	7.03
	33.00	18.56	4.24	21.91	5.28	25.26	6.32	26.80	6.86	28.34	7.39	28.96	7.42	29.57	7.49
	35.00	18.56	4.51	21.91	5.62	25.26	6.73	26.80	7.30	28.34	7.86	28.96	7.89	29.57	7.97
37.00	18.56	4.80	21.91	5.98	25.26	7.15	26.80	7.76	28.34	8.37	28.96	8.39	29.57	8.47	
39.00	18.56	4.82	21.91	6.00	25.26	7.19	26.80	7.79	28.34	8.40	28.96	8.43	29.57	8.51	
41.00	18.56	4.84	21.91	6.03	25.26	7.22	26.80	7.83	28.34	8.44	28.96	8.46	29.57	8.55	



Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
	43.00	18.56	4.86	21.91	6.06	25.26	7.25	26.80	7.86	28.34	8.48	28.96	8.50	29.57	8.59
	45.00	18.56	4.88	21.91	6.08	25.26	7.29	26.80	7.90	28.34	8.52	28.96	8.54	29.57	8.63
	47.00	18.56	4.91	21.91	6.11	25.26	7.32	26.80	7.94	28.34	8.56	28.96	8.58	29.57	8.67
	48.00	18.56	4.93	21.91	6.14	25.26	7.35	26.80	7.97	28.34	8.60	28.96	8.62	29.57	8.71
70%	10.00	16.24	2.05	19.17	2.55	22.10	3.06	23.45	3.32	24.80	3.58	25.34	3.59	25.88	3.62
	12.00	16.24	2.09	19.17	2.60	22.10	3.12	23.45	3.38	24.80	3.64	25.34	3.65	25.88	3.69
	14.00	16.24	2.13	19.17	2.65	22.10	3.17	23.45	3.44	24.80	3.71	25.34	3.72	25.88	3.76
	16.00	16.24	2.16	19.17	2.70	22.10	3.23	23.45	3.50	24.80	3.78	25.34	3.79	25.88	3.82
	18.00	16.24	2.20	19.17	2.74	22.10	3.29	23.45	3.56	24.80	3.84	25.34	3.85	25.88	3.89
	19.00	16.24	2.24	19.17	2.79	22.10	3.34	23.45	3.62	24.80	3.91	25.34	3.92	25.88	3.96
	21.00	16.24	2.40	19.17	2.99	22.10	3.58	23.45	3.89	24.80	4.19	25.34	4.20	25.88	4.24
	23.00	16.24	2.57	19.17	3.21	22.10	3.84	23.45	4.16	24.80	4.49	25.34	4.50	25.88	4.54
	25.00	16.24	2.75	19.17	3.43	22.10	4.11	23.45	4.45	24.80	4.80	25.34	4.82	25.88	4.86
	27.00	16.24	2.94	19.17	3.67	22.10	4.39	23.45	4.76	24.80	5.13	25.34	5.15	25.88	5.20
	29.00	16.24	3.14	19.17	3.91	22.10	4.69	23.45	5.08	24.80	5.48	25.34	5.50	25.88	5.55
	31.00	16.24	3.35	19.17	4.17	22.10	5.00	23.45	5.42	24.80	5.84	25.34	5.86	25.88	5.92
	33.00	16.24	3.57	19.17	4.45	22.10	5.32	23.45	5.78	24.80	6.23	25.34	6.24	25.88	6.31
	35.00	16.24	3.80	19.17	4.73	22.10	5.66	23.45	6.14	24.80	6.62	25.34	6.64	25.88	6.71
	37.00	16.24	4.04	19.17	5.03	22.10	6.02	23.45	6.53	24.80	7.04	25.34	7.07	25.88	7.13
	39.00	16.24	4.06	19.17	5.05	22.10	6.05	23.45	6.56	24.80	7.07	25.34	7.10	25.88	7.17
41.00	16.24	4.07	19.17	5.08	22.10	6.08	23.45	6.59	24.80	7.11	25.34	7.13	25.88	7.20	
43.00	16.24	4.09	19.17	5.10	22.10	6.11	23.45	6.62	24.80	7.14	25.34	7.16	25.88	7.23	
45.00	16.24	4.11	19.17	5.12	22.10	6.13	23.45	6.65	24.80	7.17	25.34	7.19	25.88	7.26	
47.00	16.24	4.13	19.17	5.15	22.10	6.16	23.45	6.68	24.80	7.21	25.34	7.23	25.88	7.30	
48.00	16.24	4.15	19.17	5.17	22.10	6.19	23.45	6.72	24.80	7.24	25.34	7.26	25.88	7.33	
60%	10.00	13.92	1.70	16.43	2.11	18.94	2.53	20.10	2.75	21.26	2.96	21.72	2.97	22.18	3.00
	12.00	13.92	1.73	16.43	2.15	18.94	2.58	20.10	2.80	21.26	3.02	21.72	3.02	22.18	3.05
	14.00	13.92	1.76	16.43	2.19	18.94	2.63	20.10	2.85	21.26	3.07	21.72	3.08	22.18	3.11
	16.00	13.92	1.79	16.43	2.23	18.94	2.67	20.10	2.90	21.26	3.12	21.72	3.13	22.18	3.16
	18.00	13.92	1.82	16.43	2.27	18.94	2.72	20.10	2.95	21.26	3.18	21.72	3.19	22.18	3.22
	19.00	13.92	1.85	16.43	2.31	18.94	2.77	20.10	3.00	21.26	3.23	21.72	3.24	22.18	3.28
	21.00	13.92	1.99	16.43	2.48	18.94	2.97	20.10	3.22	21.26	3.47	21.72	3.48	22.18	3.51
	23.00	13.92	2.13	16.43	2.65	18.94	3.18	20.10	3.45	21.26	3.71	21.72	3.73	22.18	3.76
	25.00	13.92	2.28	16.43	2.84	18.94	3.40	20.10	3.69	21.26	3.97	21.72	3.99	22.18	4.03
	27.00	13.92	2.44	16.43	3.03	18.94	3.63	20.10	3.94	21.26	4.25	21.72	4.26	22.18	4.30
	29.00	13.92	2.60	16.43	3.24	18.94	3.88	20.10	4.21	21.26	4.54	21.72	4.55	22.18	4.59
	31.00	13.92	2.77	16.43	3.46	18.94	4.14	20.10	4.49	21.26	4.84	21.72	4.85	22.18	4.90
	33.00	13.92	2.95	16.43	3.68	18.94	4.41	20.10	4.78	21.26	5.15	21.72	5.17	22.18	5.22
	35.00	13.92	3.14	16.43	3.92	18.94	4.69	20.10	5.09	21.26	5.48	21.72	5.50	22.18	5.55
	37.00	13.92	3.34	16.43	4.16	18.94	4.99	20.10	5.41	21.26	5.83	21.72	5.85	22.18	5.91
	39.00	13.92	3.36	16.43	4.18	18.94	5.01	20.10	5.43	21.26	5.86	21.72	5.87	22.18	5.93

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
	41.00	13.92	3.37	16.43	4.20	18.94	5.03	20.10	5.46	21.26	5.88	21.72	5.90	22.18	5.96
	43.00	13.92	3.39	16.43	4.22	18.94	5.05	20.10	5.48	21.26	5.91	21.72	5.93	22.18	5.99
	45.00	13.92	3.40	16.43	4.24	18.94	5.08	20.10	5.51	21.26	5.94	21.72	5.96	22.18	6.01
	47.00	13.92	3.42	16.43	4.26	18.94	5.10	20.10	5.53	21.26	5.96	21.72	5.98	22.18	6.04
	48.00	13.92	3.43	16.43	4.28	18.94	5.12	20.10	5.56	21.26	5.99	21.72	6.01	22.18	6.07
50%	10.00	11.60	1.37	13.69	1.71	15.79	2.05	16.75	2.22	17.71	2.40	18.10	2.41	18.48	2.43
	12.00	11.60	1.40	13.69	1.74	15.79	2.09	16.75	2.27	17.71	2.44	18.10	2.45	18.48	2.47
	14.00	11.60	1.43	13.69	1.78	15.79	2.13	16.75	2.31	17.71	2.49	18.10	2.49	18.48	2.52
	16.00	11.60	1.45	13.69	1.81	15.79	2.17	16.75	2.35	17.71	2.53	18.10	2.54	18.48	2.56
	18.00	11.60	1.48	13.69	1.84	15.79	2.20	16.75	2.39	17.71	2.58	18.10	2.58	18.48	2.61
	19.00	11.60	1.50	13.69	1.87	15.79	2.24	16.75	2.43	17.71	2.62	18.10	2.63	18.48	2.65
	21.00	11.60	1.61	13.69	2.01	15.79	2.40	16.75	2.61	17.71	2.81	18.10	2.82	18.48	2.85
	23.00	11.60	1.73	13.69	2.15	15.79	2.57	16.75	2.79	17.71	3.01	18.10	3.02	18.48	3.05
	25.00	11.60	1.85	13.69	2.30	15.79	2.75	16.75	2.99	17.71	3.22	18.10	3.23	18.48	3.26
	27.00	11.60	1.97	13.69	2.46	15.79	2.94	16.75	3.19	17.71	3.44	18.10	3.45	18.48	3.49
	29.00	11.60	2.11	13.69	2.63	15.79	3.14	16.75	3.41	17.71	3.68	18.10	3.69	18.48	3.72
	31.00	11.60	2.25	13.69	2.80	15.79	3.35	16.75	3.64	17.71	3.92	18.10	3.93	18.48	3.97
	33.00	11.60	2.39	13.69	2.98	15.79	3.57	16.75	3.87	17.71	4.17	18.10	4.19	18.48	4.23
	35.00	11.60	2.55	13.69	3.17	15.79	3.80	16.75	4.12	17.71	4.44	18.10	4.45	18.48	4.50
	37.00	11.60	2.71	13.69	3.37	15.79	4.04	16.75	4.38	17.71	4.72	18.10	4.74	18.48	4.78
	39.00	11.60	2.72	13.69	3.39	15.79	4.06	16.75	4.40	17.71	4.74	18.10	4.76	18.48	4.80
	41.00	11.60	2.73	13.69	3.40	15.79	4.08	16.75	4.42	17.71	4.77	18.10	4.78	18.48	4.83
	43.00	11.60	2.74	13.69	3.42	15.79	4.09	16.75	4.44	17.71	4.79	18.10	4.80	18.48	4.85
45.00	11.60	2.76	13.69	3.44	15.79	4.11	16.75	4.46	17.71	4.81	18.10	4.82	18.48	4.87	
47.00	11.60	2.77	13.69	3.45	15.79	4.13	16.75	4.48	17.71	4.83	18.10	4.85	18.48	4.89	
48.00	11.60	2.78	13.69	3.47	15.79	4.15	16.75	4.50	17.71	4.85	18.10	4.87	18.48	4.92	

## MDVi-400(14)W/DSN1

TC: total capacity PI: power input

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
130%	10.00	30.37	4.47	35.85	5.57	41.33	6.67	43.86	7.23	46.38	7.80	47.39	7.82	48.40	7.90
	12.00	30.37	4.55	35.85	5.67	41.33	6.79	43.86	7.37	46.38	7.94	47.39	7.96	48.40	8.04
	14.00	30.37	4.63	35.85	5.77	41.33	6.91	43.86	7.50	46.38	8.08	47.39	8.11	48.40	8.19
	16.00	30.37	4.72	35.85	5.88	41.33	7.04	43.86	7.63	46.38	8.23	47.39	8.25	48.40	8.33
	18.00	30.37	4.80	35.85	5.98	41.33	7.16	43.86	7.77	46.38	8.37	47.39	8.40	48.40	8.48
	19.00	30.37	4.88	35.85	6.08	41.33	7.29	43.86	7.90	46.38	8.52	47.39	8.54	48.40	8.63
	21.00	30.37	5.24	35.85	6.52	41.33	7.81	43.86	8.47	46.38	9.13	47.39	9.16	48.40	9.25
	23.00	30.37	5.61	35.85	6.99	41.33	8.37	43.86	9.07	46.38	9.78	47.39	9.81	48.40	9.91
	25.00	30.37	6.00	35.85	7.48	41.33	8.95	43.86	9.71	46.38	10.47	47.39	10.50	48.40	10.60
	27.00	30.37	6.41	35.85	7.99	41.33	9.57	43.86	10.38	46.38	11.19	47.39	11.22	48.40	11.33
	29.00	30.37	6.85	35.85	8.53	41.33	10.22	43.86	11.08	46.38	11.95	47.39	11.98	48.40	12.10
	31.00	30.37	7.30	35.85	9.10	41.33	10.90	43.86	11.82	46.38	12.74	47.39	12.78	48.40	12.90
	33.00	30.37	7.78	35.85	9.69	41.33	11.61	43.86	12.59	46.38	13.57	47.39	13.61	48.40	13.74
	35.00	30.37	8.28	35.85	10.31	41.33	12.35	43.86	13.39	46.38	14.44	47.39	14.48	48.40	14.62
	37.00	30.37	8.80	35.85	10.97	41.33	13.13	43.86	14.24	46.38	15.36	47.39	15.40	48.40	15.55
	39.00	30.37	8.84	35.85	11.02	41.33	13.19	43.86	14.31	46.38	15.42	47.39	15.47	48.40	15.62
	41.00	30.37	8.88	35.85	11.07	41.33	13.25	43.86	14.37	46.38	15.49	47.39	15.54	48.40	15.69
	43.00	30.37	8.92	35.85	11.12	41.33	13.31	43.86	14.44	46.38	15.56	47.39	15.61	48.40	15.76
45.00	30.37	8.96	35.85	11.17	41.33	13.37	43.86	14.50	46.38	15.64	47.39	15.68	48.40	15.84	
47.00	30.37	9.01	35.85	11.22	41.33	13.43	43.86	14.57	46.38	15.71	47.39	15.76	48.40	15.91	
48.00	30.37	9.05	35.85	11.27	41.33	13.50	43.86	14.64	46.38	15.78	47.39	15.83	48.40	15.98	
120%	10.00	29.88	4.43	35.27	5.52	40.66	6.60	43.14	7.16	45.62	7.72	46.61	7.74	47.61	7.82
	12.00	29.88	4.51	35.27	5.62	40.66	6.73	43.14	7.30	45.62	7.86	46.61	7.89	47.61	7.96
	14.00	29.88	4.59	35.27	5.72	40.66	6.85	43.14	7.43	45.62	8.01	46.61	8.03	47.61	8.11
	16.00	29.88	4.67	35.27	5.82	40.66	6.97	43.14	7.56	45.62	8.15	46.61	8.18	47.61	8.25
	18.00	29.88	4.75	35.27	5.92	40.66	7.09	43.14	7.69	45.62	8.29	46.61	8.32	47.61	8.40
	19.00	29.88	4.84	35.27	6.03	40.66	7.22	43.14	7.83	45.62	8.44	46.61	8.46	47.61	8.54
	21.00	29.88	5.18	35.27	6.46	40.66	7.74	43.14	8.39	45.62	9.04	46.61	9.07	47.61	9.16
	23.00	29.88	5.55	35.27	6.92	40.66	8.29	43.14	8.99	45.62	9.69	46.61	9.72	47.61	9.81
	25.00	29.88	5.94	35.27	7.40	40.66	8.87	43.14	9.62	45.62	10.37	46.61	10.40	47.61	10.50
	27.00	29.88	6.35	35.27	7.92	40.66	9.48	43.14	10.28	45.62	11.08	46.61	11.12	47.61	11.22
	29.00	29.88	6.78	35.27	8.45	40.66	10.12	43.14	10.98	45.62	11.83	46.61	11.87	47.61	11.98
	31.00	29.88	7.23	35.27	9.01	40.66	10.79	43.14	11.71	45.62	12.62	46.61	12.66	47.61	12.78
	33.00	29.88	7.71	35.27	9.60	40.66	11.50	43.14	12.47	45.62	13.44	46.61	13.48	47.61	13.61
	35.00	29.88	8.20	35.27	10.21	40.66	12.23	43.14	13.26	45.62	14.30	46.61	14.34	47.61	14.48
	37.00	29.88	8.72	35.27	10.86	40.66	13.01	43.14	14.11	45.62	15.21	46.61	15.25	47.61	15.40
	39.00	29.88	8.76	35.27	10.91	40.66	13.06	43.14	14.17	45.62	15.27	46.61	15.32	47.61	15.47
	41.00	29.88	8.80	35.27	10.96	40.66	13.12	43.14	14.23	45.62	15.34	46.61	15.39	47.61	15.54
	43.00	29.88	8.84	35.27	11.01	40.66	13.18	43.14	14.30	45.62	15.41	46.61	15.46	47.61	15.61
45.00	29.88	8.88	35.27	11.06	40.66	13.24	43.14	14.37	45.62	15.49	46.61	15.53	47.61	15.68	

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
	47.00	29.88	8.92	35.27	11.11	40.66	13.31	43.14	14.43	45.62	15.56	46.61	15.60	47.61	15.76
	48.00	29.88	8.96	35.27	11.16	40.66	13.37	43.14	14.50	45.62	15.63	46.61	15.68	47.61	15.83
110%	10.00	29.38	4.38	34.68	5.46	39.99	6.54	42.43	7.09	44.87	7.65	45.84	7.67	46.82	7.74
	12.00	29.38	4.46	34.68	5.56	39.99	6.66	42.43	7.22	44.87	7.79	45.84	7.81	46.82	7.89
	14.00	29.38	4.55	34.68	5.66	39.99	6.78	42.43	7.36	44.87	7.93	45.84	7.95	46.82	8.03
	16.00	29.38	4.63	34.68	5.77	39.99	6.90	42.43	7.49	44.87	8.07	45.84	8.10	46.82	8.17
	18.00	29.38	4.71	34.68	5.87	39.99	7.02	42.43	7.62	44.87	8.21	45.84	8.24	46.82	8.32
	19.00	29.38	4.79	34.68	5.97	39.99	7.15	42.43	7.75	44.87	8.35	45.84	8.38	46.82	8.46
	21.00	29.38	5.13	34.68	6.40	39.99	7.66	42.43	8.31	44.87	8.96	45.84	8.98	46.82	9.07
	23.00	29.38	5.50	34.68	6.85	39.99	8.21	42.43	8.90	44.87	9.59	45.84	9.62	46.82	9.72
	25.00	29.38	5.89	34.68	7.33	39.99	8.78	42.43	9.52	44.87	10.27	45.84	10.30	46.82	10.40
	27.00	29.38	6.29	34.68	7.84	39.99	9.39	42.43	10.18	44.87	10.97	45.84	11.01	46.82	11.11
	29.00	29.38	6.72	34.68	8.37	39.99	10.02	42.43	10.87	44.87	11.72	45.84	11.75	46.82	11.87
	31.00	29.38	7.16	34.68	8.93	39.99	10.69	42.43	11.59	44.87	12.50	45.84	12.53	46.82	12.66
	33.00	29.38	7.63	34.68	9.51	39.99	11.38	42.43	12.35	44.87	13.31	45.84	13.35	46.82	13.48
	35.00	29.38	8.12	34.68	10.11	39.99	12.11	42.43	13.14	44.87	14.16	45.84	14.20	46.82	14.34
	37.00	29.38	8.63	34.68	10.76	39.99	12.88	42.43	13.97	44.87	15.06	45.84	15.11	46.82	15.25
	39.00	29.38	8.67	34.68	10.80	39.99	12.94	42.43	14.03	44.87	15.13	45.84	15.17	46.82	15.32
	41.00	29.38	8.71	34.68	10.85	39.99	12.99	42.43	14.09	44.87	15.19	45.84	15.24	46.82	15.39
	43.00	29.38	8.75	34.68	10.90	39.99	13.06	42.43	14.16	44.87	15.26	45.84	15.31	46.82	15.46
45.00	29.38	8.79	34.68	10.95	39.99	13.12	42.43	14.23	44.87	15.34	45.84	15.38	46.82	15.53	
47.00	29.38	8.83	34.68	11.00	39.99	13.18	42.43	14.29	44.87	15.41	45.84	15.45	46.82	15.60	
48.00	29.38	8.87	34.68	11.05	39.99	13.24	42.43	14.36	44.87	15.48	45.84	15.52	46.82	15.67	
100%	10.00	27.70	4.09	32.70	5.10	37.70	6.10	40.00	6.62	42.30	7.14	43.22	7.16	44.14	7.23
	12.00	27.70	4.17	32.70	5.19	37.70	6.22	40.00	6.74	42.30	7.27	43.22	7.29	44.14	7.36
	14.00	27.70	4.24	32.70	5.29	37.70	6.33	40.00	6.87	42.30	7.40	43.22	7.42	44.14	7.50
	16.00	27.70	4.32	32.70	5.38	37.70	6.44	40.00	6.99	42.30	7.53	43.22	7.56	44.14	7.63
	18.00	27.70	4.39	32.70	5.48	37.70	6.56	40.00	7.11	42.30	7.67	43.22	7.69	44.14	7.76
	19.00	27.70	4.47	32.70	5.57	37.70	6.67	40.00	7.23	42.30	7.80	43.22	7.82	44.14	7.90
	21.00	27.70	4.79	32.70	5.97	37.70	7.15	40.00	7.75	42.30	8.36	43.22	8.38	44.14	8.47
	23.00	27.70	5.13	32.70	6.40	37.70	7.66	40.00	8.31	42.30	8.95	43.22	8.98	44.14	9.07
	25.00	27.70	5.49	32.70	6.84	37.70	8.20	40.00	8.89	42.30	9.58	43.22	9.61	44.14	9.70
	27.00	27.70	5.87	32.70	7.32	37.70	8.76	40.00	9.50	42.30	10.24	43.22	10.27	44.14	10.37
	29.00	27.70	6.27	32.70	7.81	37.70	9.35	40.00	10.15	42.30	10.94	43.22	10.97	44.14	11.08
	31.00	27.70	6.69	32.70	8.33	37.70	9.98	40.00	10.82	42.30	11.66	43.22	11.70	44.14	11.81
	33.00	27.70	7.12	32.70	8.87	37.70	10.63	40.00	11.52	42.30	12.42	43.22	12.46	44.14	12.58
	35.00	27.70	7.58	32.70	9.44	37.70	11.30	40.00	12.26	42.30	13.22	43.22	13.26	44.14	13.39
	37.00	27.70	8.06	32.70	10.04	37.70	12.02	40.00	13.04	42.30	14.06	43.22	14.10	44.14	14.24
	39.00	27.70	8.09	32.70	10.08	37.70	12.07	40.00	13.10	42.30	14.12	43.22	14.16	44.14	14.30
	41.00	27.70	8.13	32.70	10.13	37.70	12.13	40.00	13.15	42.30	14.18	43.22	14.22	44.14	14.36
	43.00	27.70	8.17	32.70	10.18	37.70	12.19	40.00	13.22	42.30	14.25	43.22	14.29	44.14	14.43

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
	45.00	27.70	8.21	32.70	10.22	37.70	12.24	40.00	13.28	42.30	14.31	43.22	14.36	44.14	14.50
	47.00	27.70	8.24	32.70	10.27	37.70	12.30	40.00	13.34	42.30	14.38	43.22	14.42	44.14	14.56
	48.00	27.70	8.28	32.70	10.32	37.70	12.35	40.00	13.40	42.30	14.45	43.22	14.49	44.14	14.63
90%	10.00	24.93	3.54	29.43	4.41	33.93	5.28	36.00	5.72	38.07	6.17	38.90	6.19	39.73	6.25
	12.00	24.93	3.60	29.43	4.49	33.93	5.37	36.00	5.83	38.07	6.28	38.90	6.30	39.73	6.36
	14.00	24.93	3.67	29.43	4.57	33.93	5.47	36.00	5.94	38.07	6.40	38.90	6.42	39.73	6.48
	16.00	24.93	3.73	29.43	4.65	33.93	5.57	36.00	6.04	38.07	6.51	38.90	6.53	39.73	6.60
	18.00	24.93	3.80	29.43	4.73	33.93	5.67	36.00	6.15	38.07	6.63	38.90	6.65	39.73	6.71
	19.00	24.93	3.86	29.43	4.82	33.93	5.77	36.00	6.25	38.07	6.74	38.90	6.76	39.73	6.83
	21.00	24.93	4.14	29.43	5.16	33.93	6.18	36.00	6.70	38.07	7.23	38.90	7.25	39.73	7.32
	23.00	24.93	4.44	29.43	5.53	33.93	6.62	36.00	7.18	38.07	7.74	38.90	7.76	39.73	7.84
	25.00	24.93	4.75	29.43	5.92	33.93	7.08	36.00	7.68	38.07	8.28	38.90	8.31	39.73	8.39
	27.00	24.93	5.08	29.43	6.32	33.93	7.57	36.00	8.21	38.07	8.85	38.90	8.88	39.73	8.97
	29.00	24.93	5.42	29.43	6.75	33.93	8.09	36.00	8.77	38.07	9.45	38.90	9.48	39.73	9.58
	31.00	24.93	5.78	29.43	7.20	33.93	8.62	36.00	9.35	38.07	10.08	38.90	10.11	39.73	10.21
	33.00	24.93	6.16	29.43	7.67	33.93	9.19	36.00	9.96	38.07	10.74	38.90	10.77	39.73	10.88
	35.00	24.93	6.55	29.43	8.16	33.93	9.77	36.00	10.60	38.07	11.43	38.90	11.46	39.73	11.57
	37.00	24.93	6.97	29.43	8.68	33.93	10.39	36.00	11.27	38.07	12.15	38.90	12.19	39.73	12.31
	39.00	24.93	7.00	29.43	8.72	33.93	10.44	36.00	11.32	38.07	12.20	38.90	12.24	39.73	12.36
	41.00	24.93	7.03	29.43	8.76	33.93	10.49	36.00	11.37	38.07	12.26	38.90	12.30	39.73	12.42
	43.00	24.93	7.06	29.43	8.80	33.93	10.53	36.00	11.43	38.07	12.32	38.90	12.35	39.73	12.47
	45.00	24.93	7.09	29.43	8.84	33.93	10.58	36.00	11.48	38.07	12.37	38.90	12.41	39.73	12.53
47.00	24.93	7.13	29.43	8.88	33.93	10.63	36.00	11.53	38.07	12.43	38.90	12.47	39.73	12.59	
48.00	24.93	7.16	29.43	8.92	33.93	10.68	36.00	11.58	38.07	12.49	38.90	12.53	39.73	12.65	
80%	10.00	22.16	3.02	26.16	3.76	30.16	4.51	32.00	4.89	33.84	5.27	34.58	5.29	35.31	5.34
	12.00	22.16	3.08	26.16	3.83	30.16	4.59	32.00	4.98	33.84	5.37	34.58	5.38	35.31	5.44
	14.00	22.16	3.13	26.16	3.90	30.16	4.67	32.00	5.07	33.84	5.47	34.58	5.48	35.31	5.54
	16.00	22.16	3.19	26.16	3.97	30.16	4.76	32.00	5.16	33.84	5.56	34.58	5.58	35.31	5.63
	18.00	22.16	3.25	26.16	4.04	30.16	4.84	32.00	5.25	33.84	5.66	34.58	5.68	35.31	5.73
	19.00	22.16	3.30	26.16	4.11	30.16	4.92	32.00	5.34	33.84	5.76	34.58	5.78	35.31	5.83
	21.00	22.16	3.54	26.16	4.41	30.16	5.28	32.00	5.73	33.84	6.17	34.58	6.19	35.31	6.25
	23.00	22.16	3.79	26.16	4.72	30.16	5.66	32.00	6.13	33.84	6.61	34.58	6.63	35.31	6.70
	25.00	22.16	4.06	26.16	5.05	30.16	6.05	32.00	6.56	33.84	7.08	34.58	7.10	35.31	7.17
	27.00	22.16	4.34	26.16	5.40	30.16	6.47	32.00	7.02	33.84	7.56	34.58	7.59	35.31	7.66
	29.00	22.16	4.63	26.16	5.77	30.16	6.91	32.00	7.49	33.84	8.08	34.58	8.10	35.31	8.18
	31.00	22.16	4.94	26.16	6.15	30.16	7.37	32.00	7.99	33.84	8.61	34.58	8.64	35.31	8.72
	33.00	22.16	5.26	26.16	6.55	30.16	7.85	32.00	8.51	33.84	9.17	34.58	9.20	35.31	9.29
	35.00	22.16	5.59	26.16	6.97	30.16	8.35	32.00	9.05	33.84	9.76	34.58	9.79	35.31	9.88
37.00	22.16	5.95	26.16	7.41	30.16	8.88	32.00	9.63	33.84	10.38	34.58	10.41	35.31	10.51	
39.00	22.16	5.98	26.16	7.45	30.16	8.92	32.00	9.67	33.84	10.43	34.58	10.46	35.31	10.56	
41.00	22.16	6.00	26.16	7.48	30.16	8.96	32.00	9.71	33.84	10.47	34.58	10.50	35.31	10.61	

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
	43.00	22.16	6.03	26.16	7.51	30.16	9.00	32.00	9.76	33.84	10.52	34.58	10.55	35.31	10.66
	45.00	22.16	6.06	26.16	7.55	30.16	9.04	32.00	9.80	33.84	10.57	34.58	10.60	35.31	10.70
	47.00	22.16	6.09	26.16	7.58	30.16	9.08	32.00	9.85	33.84	10.62	34.58	10.65	35.31	10.75
	48.00	22.16	6.12	26.16	7.62	30.16	9.12	32.00	9.90	33.84	10.67	34.58	10.70	35.31	10.80
70%	10.00	19.39	2.54	22.89	3.17	26.39	3.80	28.00	4.12	29.61	4.44	30.25	4.45	30.90	4.49
	12.00	19.39	2.59	22.89	3.23	26.39	3.87	28.00	4.19	29.61	4.52	30.25	4.53	30.90	4.58
	14.00	19.39	2.64	22.89	3.29	26.39	3.94	28.00	4.27	29.61	4.60	30.25	4.62	30.90	4.66
	16.00	19.39	2.69	22.89	3.35	26.39	4.01	28.00	4.35	29.61	4.68	30.25	4.70	30.90	4.74
	18.00	19.39	2.73	22.89	3.40	26.39	4.08	28.00	4.42	29.61	4.77	30.25	4.78	30.90	4.83
	19.00	19.39	2.78	22.89	3.46	26.39	4.15	28.00	4.50	29.61	4.85	30.25	4.86	30.90	4.91
	21.00	19.39	2.98	22.89	3.71	26.39	4.45	28.00	4.82	29.61	5.20	30.25	5.21	30.90	5.26
	23.00	19.39	3.19	22.89	3.98	26.39	4.76	28.00	5.17	29.61	5.57	30.25	5.59	30.90	5.64
	25.00	19.39	3.42	22.89	4.26	26.39	5.10	28.00	5.53	29.61	5.96	30.25	5.98	30.90	6.03
	27.00	19.39	3.65	22.89	4.55	26.39	5.45	28.00	5.91	29.61	6.37	30.25	6.39	30.90	6.45
	29.00	19.39	3.90	22.89	4.86	26.39	5.82	28.00	6.31	29.61	6.80	30.25	6.82	30.90	6.89
	31.00	19.39	4.16	22.89	5.18	26.39	6.20	28.00	6.73	29.61	7.25	30.25	7.28	30.90	7.35
	33.00	19.39	4.43	22.89	5.52	26.39	6.61	28.00	7.17	29.61	7.73	30.25	7.75	30.90	7.82
	35.00	19.39	4.71	22.89	5.87	26.39	7.03	28.00	7.62	29.61	8.22	30.25	8.24	30.90	8.32
	37.00	19.39	5.01	22.89	6.24	26.39	7.48	28.00	8.11	29.61	8.74	30.25	8.77	30.90	8.85
	39.00	19.39	5.03	22.89	6.27	26.39	7.51	28.00	8.14	29.61	8.78	30.25	8.81	30.90	8.89
	41.00	19.39	5.06	22.89	6.30	26.39	7.54	28.00	8.18	29.61	8.82	30.25	8.85	30.90	8.93
	43.00	19.39	5.08	22.89	6.33	26.39	7.58	28.00	8.22	29.61	8.86	30.25	8.89	30.90	8.97
45.00	19.39	5.10	22.89	6.36	26.39	7.61	28.00	8.26	29.61	8.90	30.25	8.93	30.90	9.01	
47.00	19.39	5.13	22.89	6.39	26.39	7.65	28.00	8.29	29.61	8.94	30.25	8.97	30.90	9.06	
48.00	19.39	5.15	22.89	6.42	26.39	7.68	28.00	8.33	29.61	8.98	30.25	9.01	30.90	9.10	
60%	10.00	16.62	2.11	19.62	2.62	22.62	3.14	24.00	3.41	25.38	3.67	25.93	3.68	26.48	3.72
	12.00	16.62	2.14	19.62	2.67	22.62	3.20	24.00	3.47	25.38	3.74	25.93	3.75	26.48	3.79
	14.00	16.62	2.18	19.62	2.72	22.62	3.26	24.00	3.53	25.38	3.81	25.93	3.82	26.48	3.86
	16.00	16.62	2.22	19.62	2.77	22.62	3.32	24.00	3.60	25.38	3.88	25.93	3.89	26.48	3.93
	18.00	16.62	2.26	19.62	2.82	22.62	3.37	24.00	3.66	25.38	3.95	25.93	3.96	26.48	4.00
	19.00	16.62	2.30	19.62	2.87	22.62	3.43	24.00	3.72	25.38	4.01	25.93	4.03	26.48	4.06
	21.00	16.62	2.47	19.62	3.07	22.62	3.68	24.00	3.99	25.38	4.30	25.93	4.32	26.48	4.36
	23.00	16.62	2.64	19.62	3.29	22.62	3.94	24.00	4.28	25.38	4.61	25.93	4.62	26.48	4.67
	25.00	16.62	2.83	19.62	3.52	22.62	4.22	24.00	4.57	25.38	4.93	25.93	4.95	26.48	4.99
	27.00	16.62	3.02	19.62	3.77	22.62	4.51	24.00	4.89	25.38	5.27	25.93	5.29	26.48	5.34
	29.00	16.62	3.23	19.62	4.02	22.62	4.81	24.00	5.22	25.38	5.63	25.93	5.65	26.48	5.70
	31.00	16.62	3.44	19.62	4.29	22.62	5.13	24.00	5.57	25.38	6.00	25.93	6.02	26.48	6.08
	33.00	16.62	3.67	19.62	4.57	22.62	5.47	24.00	5.93	25.38	6.39	25.93	6.41	26.48	6.48
	35.00	16.62	3.90	19.62	4.86	22.62	5.82	24.00	6.31	25.38	6.80	25.93	6.82	26.48	6.89
37.00	16.62	4.15	19.62	5.17	22.62	6.19	24.00	6.71	25.38	7.24	25.93	7.26	26.48	7.33	
39.00	16.62	4.17	19.62	5.19	22.62	6.21	24.00	6.74	25.38	7.27	25.93	7.29	26.48	7.36	

Combination (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
	41.00	16.62	4.18	19.62	5.21	22.62	6.24	24.00	6.77	25.38	7.30	25.93	7.32	26.48	7.39
	43.00	16.62	4.20	19.62	5.24	22.62	6.27	24.00	6.80	25.38	7.33	25.93	7.36	26.48	7.43
	45.00	16.62	4.22	19.62	5.26	22.62	6.30	24.00	6.83	25.38	7.37	25.93	7.39	26.48	7.46
	47.00	16.62	4.24	19.62	5.29	22.62	6.33	24.00	6.87	25.38	7.40	25.93	7.42	26.48	7.50
	48.00	16.62	4.26	19.62	5.31	22.62	6.36	24.00	6.90	25.38	7.44	25.93	7.46	26.48	7.53
50%	10.00	13.85	1.71	16.35	2.13	18.85	2.55	20.00	2.76	21.15	2.98	21.61	2.99	22.07	3.01
	12.00	13.85	1.74	16.35	2.17	18.85	2.59	20.00	2.81	21.15	3.03	21.61	3.04	22.07	3.07
	14.00	13.85	1.77	16.35	2.20	18.85	2.64	20.00	2.86	21.15	3.09	21.61	3.10	22.07	3.13
	16.00	13.85	1.80	16.35	2.24	18.85	2.69	20.00	2.91	21.15	3.14	21.61	3.15	22.07	3.18
	18.00	13.85	1.83	16.35	2.28	18.85	2.73	20.00	2.97	21.15	3.20	21.61	3.21	22.07	3.24
	19.00	13.85	1.86	16.35	2.32	18.85	2.78	20.00	3.02	21.15	3.25	21.61	3.26	22.07	3.29
	21.00	13.85	2.00	16.35	2.49	18.85	2.98	20.00	3.23	21.15	3.49	21.61	3.50	22.07	3.53
	23.00	13.85	2.14	16.35	2.67	18.85	3.19	20.00	3.46	21.15	3.73	21.61	3.75	22.07	3.78
	25.00	13.85	2.29	16.35	2.85	18.85	3.42	20.00	3.71	21.15	4.00	21.61	4.01	22.07	4.05
	27.00	13.85	2.45	16.35	3.05	18.85	3.65	20.00	3.96	21.15	4.27	21.61	4.28	22.07	4.33
	29.00	13.85	2.61	16.35	3.26	18.85	3.90	20.00	4.23	21.15	4.56	21.61	4.57	22.07	4.62
	31.00	13.85	2.79	16.35	3.47	18.85	4.16	20.00	4.51	21.15	4.86	21.61	4.88	22.07	4.93
	33.00	13.85	2.97	16.35	3.70	18.85	4.43	20.00	4.81	21.15	5.18	21.61	5.20	22.07	5.25
	35.00	13.85	3.16	16.35	3.94	18.85	4.71	20.00	5.11	21.15	5.51	21.61	5.53	22.07	5.58
	37.00	13.85	3.36	16.35	4.19	18.85	5.01	20.00	5.44	21.15	5.86	21.61	5.88	22.07	5.94
	39.00	13.85	3.37	16.35	4.21	18.85	5.04	20.00	5.46	21.15	5.89	21.61	5.91	22.07	5.96
	41.00	13.85	3.39	16.35	4.22	18.85	5.06	20.00	5.49	21.15	5.91	21.61	5.93	22.07	5.99
43.00	13.85	3.41	16.35	4.24	18.85	5.08	20.00	5.51	21.15	5.94	21.61	5.96	22.07	6.02	
45.00	13.85	3.42	16.35	4.26	18.85	5.10	20.00	5.54	21.15	5.97	21.61	5.99	22.07	6.05	
47.00	13.85	3.44	16.35	4.28	18.85	5.13	20.00	5.56	21.15	6.00	21.61	6.01	22.07	6.07	
48.00	13.85	3.45	16.35	4.30	18.85	5.15	20.00	5.59	21.15	6.02	21.61	6.04	22.07	6.10	

**MDVi-450(16)W/DSN1**

**TC: total capacity PI: power input**

Combination (Capacity index)	Outdoor temperature(°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
130%	10.00	34.17	5.12	40.33	6.38	46.50	7.64	49.34	8.29	52.17	8.93	53.31	8.96	54.44	9.05
	12.00	34.17	5.22	40.33	6.50	46.50	7.78	49.34	8.44	52.17	9.10	53.31	9.13	54.44	9.22
	14.00	34.17	5.31	40.33	6.62	46.50	7.92	49.34	8.60	52.17	9.27	53.31	9.29	54.44	9.38
	16.00	34.17	5.41	40.33	6.74	46.50	8.07	49.34	8.75	52.17	9.43	53.31	9.46	54.44	9.55
	18.00	34.17	5.50	40.33	6.85	46.50	8.21	49.34	8.90	52.17	9.60	53.31	9.63	54.44	9.72
	19.00	34.17	5.60	40.33	6.97	46.50	8.35	49.34	9.06	52.17	9.76	53.31	9.79	54.44	9.89
	21.00	34.17	6.00	40.33	7.47	46.50	8.95	49.34	9.71	52.17	10.46	53.31	10.50	54.44	10.60
	23.00	34.17	6.43	40.33	8.01	46.50	9.59	49.34	10.40	52.17	11.21	53.31	11.24	54.44	11.35
	25.00	34.17	6.88	40.33	8.57	46.50	10.26	49.34	11.13	52.17	12.00	53.31	12.03	54.44	12.15
	27.00	34.17	7.35	40.33	9.16	46.50	10.97	49.34	11.89	52.17	12.82	53.31	12.86	54.44	12.99
	29.00	34.17	7.85	40.33	9.78	46.50	11.71	49.34	12.70	52.17	13.69	53.31	13.73	54.44	13.87
	31.00	34.17	8.37	40.33	10.43	46.50	12.49	49.34	13.54	52.17	14.60	53.31	14.65	54.44	14.79
	33.00	34.17	8.92	40.33	11.11	46.50	13.30	49.34	14.43	52.17	15.55	53.31	15.60	54.44	15.75
	35.00	34.17	9.49	40.33	11.82	46.50	14.15	49.34	15.35	52.17	16.55	53.31	16.60	54.44	16.76
	37.00	34.17	10.09	40.33	12.57	46.50	15.05	49.34	16.32	52.17	17.60	53.31	17.65	54.44	17.82
	39.00	34.17	10.13	40.33	12.62	46.50	15.12	49.34	16.39	52.17	17.67	53.31	17.73	54.44	17.90
	41.00	34.17	10.18	40.33	12.68	46.50	15.18	49.34	16.47	52.17	17.75	53.31	17.81	54.44	17.98
	43.00	34.17	10.23	40.33	12.74	46.50	15.25	49.34	16.55	52.17	17.84	53.31	17.89	54.44	18.06
45.00	34.17	10.27	40.33	12.80	46.50	15.33	49.34	16.62	52.17	17.92	53.31	17.97	54.44	18.15	
47.00	34.17	10.32	40.33	12.86	46.50	15.40	49.34	16.70	52.17	18.00	53.31	18.06	54.44	18.23	
48.00	34.17	10.37	40.33	12.92	46.50	15.47	49.34	16.78	52.17	18.08	53.31	18.14	54.44	18.32	
120%	10.00	33.61	5.07	39.68	6.32	45.74	7.57	48.53	8.21	51.33	8.85	52.44	8.88	53.56	8.96
	12.00	33.61	5.17	39.68	6.44	45.74	7.71	48.53	8.36	51.33	9.01	52.44	9.04	53.56	9.13
	14.00	33.61	5.26	39.68	6.55	45.74	7.85	48.53	8.51	51.33	9.18	52.44	9.20	53.56	9.29
	16.00	33.61	5.35	39.68	6.67	45.74	7.99	48.53	8.66	51.33	9.34	52.44	9.37	53.56	9.46
	18.00	33.61	5.45	39.68	6.79	45.74	8.13	48.53	8.82	51.33	9.50	52.44	9.53	53.56	9.63
	19.00	33.61	5.54	39.68	6.91	45.74	8.27	48.53	8.97	51.33	9.67	52.44	9.70	53.56	9.79
	21.00	33.61	5.94	39.68	7.40	45.74	8.86	48.53	9.61	51.33	10.36	52.44	10.40	53.56	10.50
	23.00	33.61	6.36	39.68	7.93	45.74	9.50	48.53	10.30	51.33	11.10	52.44	11.14	53.56	11.24
	25.00	33.61	6.81	39.68	8.49	45.74	10.16	48.53	11.02	51.33	11.88	52.44	11.92	53.56	12.03
	27.00	33.61	7.28	39.68	9.07	45.74	10.86	48.53	11.78	51.33	12.70	52.44	12.74	53.56	12.86
	29.00	33.61	7.77	39.68	9.69	45.74	11.60	48.53	12.58	51.33	13.56	52.44	13.60	53.56	13.73
	31.00	33.61	8.29	39.68	10.33	45.74	12.37	48.53	13.41	51.33	14.46	52.44	14.51	53.56	14.65
	33.00	33.61	8.83	39.68	11.00	45.74	13.17	48.53	14.29	51.33	15.40	52.44	15.45	53.56	15.60
	35.00	33.61	9.39	39.68	11.70	45.74	14.02	48.53	15.20	51.33	16.39	52.44	16.44	53.56	16.60
	37.00	33.61	9.99	39.68	12.45	45.74	14.91	48.53	16.17	51.33	17.43	52.44	17.48	53.56	17.65
	39.00	33.61	10.03	39.68	12.50	45.74	14.97	48.53	16.24	51.33	17.50	52.44	17.56	53.56	17.73
	41.00	33.61	10.08	39.68	12.56	45.74	15.04	48.53	16.31	51.33	17.58	52.44	17.64	53.56	17.81
	43.00	33.61	10.13	39.68	12.62	45.74	15.11	48.53	16.39	51.33	17.66	52.44	17.72	53.56	17.89
45.00	33.61	10.17	39.68	12.68	45.74	15.18	48.53	16.46	51.33	17.75	52.44	17.80	53.56	17.97	



Combination (Capacity index)	Outdoor temperature(°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
	47.00	33.61	10.22	39.68	12.73	45.74	15.25	48.53	16.54	51.33	17.83	52.44	17.88	53.56	18.06
	48.00	33.61	10.27	39.68	12.79	45.74	15.32	48.53	16.61	51.33	17.91	52.44	17.97	53.56	18.14
110%	10.00	33.05	5.02	39.02	6.26	44.99	7.49	47.73	8.13	50.48	8.76	51.57	8.79	52.67	8.87
	12.00	33.05	5.12	39.02	6.38	44.99	7.63	47.73	8.28	50.48	8.93	51.57	8.95	52.67	9.04
	14.00	33.05	5.21	39.02	6.49	44.99	7.77	47.73	8.43	50.48	9.09	51.57	9.12	52.67	9.20
	16.00	33.05	5.30	39.02	6.61	44.99	7.91	47.73	8.58	50.48	9.25	51.57	9.28	52.67	9.37
	18.00	33.05	5.40	39.02	6.72	44.99	8.05	47.73	8.73	50.48	9.41	51.57	9.44	52.67	9.53
	19.00	33.05	5.49	39.02	6.84	44.99	8.19	47.73	8.88	50.48	9.57	51.57	9.60	52.67	9.70
	21.00	33.05	5.88	39.02	7.33	44.99	8.78	47.73	9.52	50.48	10.26	51.57	10.30	52.67	10.40
	23.00	33.05	6.30	39.02	7.85	44.99	9.40	47.73	10.20	50.48	10.99	51.57	11.03	52.67	11.13
	25.00	33.05	6.74	39.02	8.40	44.99	10.06	47.73	10.91	50.48	11.76	51.57	11.80	52.67	11.92
	27.00	33.05	7.21	39.02	8.98	44.99	10.76	47.73	11.67	50.48	12.58	51.57	12.61	52.67	12.74
	29.00	33.05	7.70	39.02	9.59	44.99	11.48	47.73	12.46	50.48	13.43	51.57	13.47	52.67	13.60
	31.00	33.05	8.21	39.02	10.23	44.99	12.25	47.73	13.28	50.48	14.32	51.57	14.36	52.67	14.50
	33.00	33.05	8.74	39.02	10.90	44.99	13.05	47.73	14.15	50.48	15.25	51.57	15.30	52.67	15.45
	35.00	33.05	9.30	39.02	11.59	44.99	13.88	47.73	15.05	50.48	16.23	51.57	16.28	52.67	16.44
	37.00	33.05	9.89	39.02	12.33	44.99	14.76	47.73	16.01	50.48	17.26	51.57	17.31	52.67	17.48
	39.00	33.05	9.94	39.02	12.38	44.99	14.83	47.73	16.08	50.48	17.33	51.57	17.39	52.67	17.56
	41.00	33.05	9.98	39.02	12.44	44.99	14.89	47.73	16.15	50.48	17.41	51.57	17.47	52.67	17.63
	43.00	33.05	10.03	39.02	12.50	44.99	14.96	47.73	16.23	50.48	17.49	51.57	17.55	52.67	17.72
45.00	33.05	10.07	39.02	12.55	44.99	15.03	47.73	16.30	50.48	17.57	51.57	17.63	52.67	17.80	
47.00	33.05	10.12	39.02	12.61	44.99	15.10	47.73	16.38	50.48	17.66	51.57	17.71	52.67	17.88	
48.00	33.05	10.17	39.02	12.67	44.99	15.17	47.73	16.45	50.48	17.74	51.57	17.79	52.67	17.96	
100%	10.00	31.16	4.69	36.79	5.84	42.41	7.00	45.00	7.59	47.59	8.18	48.62	8.20	49.66	8.28
	12.00	31.16	4.78	36.79	5.95	42.41	7.12	45.00	7.73	47.59	8.33	48.62	8.36	49.66	8.44
	14.00	31.16	4.86	36.79	6.06	42.41	7.25	45.00	7.87	47.59	8.48	48.62	8.51	49.66	8.59
	16.00	31.16	4.95	36.79	6.17	42.41	7.38	45.00	8.01	47.59	8.63	48.62	8.66	49.66	8.74
	18.00	31.16	5.04	36.79	6.27	42.41	7.51	45.00	8.15	47.59	8.78	48.62	8.81	49.66	8.90
	19.00	31.16	5.12	36.79	6.38	42.41	7.64	45.00	8.29	47.59	8.94	48.62	8.96	49.66	9.05
	21.00	31.16	5.49	36.79	6.84	42.41	8.19	45.00	8.89	47.59	9.58	48.62	9.61	49.66	9.70
	23.00	31.16	5.88	36.79	7.33	42.41	8.78	45.00	9.52	47.59	10.26	48.62	10.29	49.66	10.39
	25.00	31.16	6.30	36.79	7.84	42.41	9.39	45.00	10.19	47.59	10.98	48.62	11.01	49.66	11.12
	27.00	31.16	6.73	36.79	8.38	42.41	10.04	45.00	10.89	47.59	11.74	48.62	11.77	49.66	11.89
	29.00	31.16	7.19	36.79	8.95	42.41	10.72	45.00	11.63	47.59	12.53	48.62	12.57	49.66	12.69
	31.00	31.16	7.66	36.79	9.55	42.41	11.43	45.00	12.40	47.59	13.37	48.62	13.41	49.66	13.54
	33.00	31.16	8.16	36.79	10.17	42.41	12.18	45.00	13.21	47.59	14.24	48.62	14.28	49.66	14.42
	35.00	31.16	8.68	36.79	10.82	42.41	12.95	45.00	14.05	47.59	15.15	48.62	15.19	49.66	15.34
	37.00	31.16	9.24	36.79	11.51	42.41	13.78	45.00	14.94	47.59	16.11	48.62	16.16	49.66	16.32
	39.00	31.16	9.28	36.79	11.56	42.41	13.84	45.00	15.01	47.59	16.18	48.62	16.23	49.66	16.39
	41.00	31.16	9.32	36.79	11.61	42.41	13.90	45.00	15.08	47.59	16.25	48.62	16.30	49.66	16.46
	43.00	31.16	9.36	36.79	11.66	42.41	13.96	45.00	15.15	47.59	16.33	48.62	16.38	49.66	16.54

Combination (Capacity index)	Outdoor temperature(°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
	45.00	31.16	9.40	36.79	11.72	42.41	14.03	45.00	15.22	47.59	16.40	48.62	16.45	49.66	16.61
	47.00	31.16	9.45	36.79	11.77	42.41	14.09	45.00	15.29	47.59	16.48	48.62	16.53	49.66	16.69
	48.00	31.16	9.49	36.79	11.82	42.41	14.16	45.00	15.36	47.59	16.55	48.62	16.61	49.66	16.77
90%	10.00	28.05	4.05	33.11	5.05	38.17	6.05	40.50	6.56	42.83	7.07	43.76	7.09	44.69	7.16
	12.00	28.05	4.13	33.11	5.14	38.17	6.16	40.50	6.68	42.83	7.20	43.76	7.22	44.69	7.29
	14.00	28.05	4.20	33.11	5.24	38.17	6.27	40.50	6.80	42.83	7.33	43.76	7.35	44.69	7.43
	16.00	28.05	4.28	33.11	5.33	38.17	6.38	40.50	6.92	42.83	7.46	43.76	7.49	44.69	7.56
	18.00	28.05	4.35	33.11	5.42	38.17	6.50	40.50	7.04	42.83	7.59	43.76	7.62	44.69	7.69
	19.00	28.05	4.43	33.11	5.52	38.17	6.61	40.50	7.17	42.83	7.73	43.76	7.75	44.69	7.82
	21.00	28.05	4.75	33.11	5.92	38.17	7.08	40.50	7.68	42.83	8.28	43.76	8.31	44.69	8.39
	23.00	28.05	5.09	33.11	6.34	38.17	7.59	40.50	8.23	42.83	8.87	43.76	8.90	44.69	8.98
	25.00	28.05	5.44	33.11	6.78	38.17	8.12	40.50	8.81	42.83	9.49	43.76	9.52	44.69	9.61
	27.00	28.05	5.82	33.11	7.25	38.17	8.68	40.50	9.41	42.83	10.15	43.76	10.18	44.69	10.28
	29.00	28.05	6.21	33.11	7.74	38.17	9.27	40.50	10.05	42.83	10.83	43.76	10.87	44.69	10.97
	31.00	28.05	6.62	33.11	8.25	38.17	9.88	40.50	10.72	42.83	11.56	43.76	11.59	44.69	11.70
	33.00	28.05	7.06	33.11	8.79	38.17	10.53	40.50	11.42	42.83	12.31	43.76	12.35	44.69	12.47
	35.00	28.05	7.51	33.11	9.35	38.17	11.20	40.50	12.15	42.83	13.09	43.76	13.13	44.69	13.26
	37.00	28.05	7.98	33.11	9.95	38.17	11.91	40.50	12.92	42.83	13.93	43.76	13.97	44.69	14.10
	39.00	28.05	8.02	33.11	9.99	38.17	11.96	40.50	12.97	42.83	13.99	43.76	14.03	44.69	14.17
	41.00	28.05	8.05	33.11	10.04	38.17	12.02	40.50	13.03	42.83	14.05	43.76	14.09	44.69	14.23
	43.00	28.05	8.09	33.11	10.08	38.17	12.07	40.50	13.09	42.83	14.11	43.76	14.16	44.69	14.30
	45.00	28.05	8.13	33.11	10.13	38.17	12.13	40.50	13.15	42.83	14.18	43.76	14.22	44.69	14.36
	47.00	28.05	8.17	33.11	10.18	38.17	12.18	40.50	13.22	42.83	14.25	43.76	14.29	44.69	14.43
48.00	28.05	8.20	33.11	10.22	38.17	12.24	40.50	13.28	42.83	14.31	43.76	14.36	44.69	14.49	
80%	10.00	24.93	3.46	29.43	4.31	33.93	5.17	36.00	5.60	38.07	6.04	38.90	6.06	39.73	6.12
	12.00	24.93	3.53	29.43	4.39	33.93	5.26	36.00	5.71	38.07	6.15	38.90	6.17	39.73	6.23
	14.00	24.93	3.59	29.43	4.47	33.93	5.36	36.00	5.81	38.07	6.26	38.90	6.28	39.73	6.34
	16.00	24.93	3.65	29.43	4.55	33.93	5.45	36.00	5.91	38.07	6.38	38.90	6.39	39.73	6.46
	18.00	24.93	3.72	29.43	4.63	33.93	5.55	36.00	6.02	38.07	6.49	38.90	6.51	39.73	6.57
	19.00	24.93	3.78	29.43	4.71	33.93	5.64	36.00	6.12	38.07	6.60	38.90	6.62	39.73	6.68
	21.00	24.93	4.06	29.43	5.05	33.93	6.05	36.00	6.56	38.07	7.07	38.90	7.10	39.73	7.16
	23.00	24.93	4.34	29.43	5.41	33.93	6.48	36.00	7.03	38.07	7.58	38.90	7.60	39.73	7.67
	25.00	24.93	4.65	29.43	5.79	33.93	6.94	36.00	7.52	38.07	8.11	38.90	8.13	39.73	8.21
	27.00	24.93	4.97	29.43	6.19	33.93	7.41	36.00	8.04	38.07	8.67	38.90	8.69	39.73	8.78
	29.00	24.93	5.31	29.43	6.61	33.93	7.92	36.00	8.59	38.07	9.26	38.90	9.28	39.73	9.37
	31.00	24.93	5.66	29.43	7.05	33.93	8.44	36.00	9.16	38.07	9.87	38.90	9.90	39.73	10.00
	33.00	24.93	6.03	29.43	7.51	33.93	8.99	36.00	9.75	38.07	10.51	38.90	10.55	39.73	10.65
	35.00	24.93	6.41	29.43	7.99	33.93	9.57	36.00	10.38	38.07	11.18	38.90	11.22	39.73	11.33
37.00	24.93	6.82	29.43	8.50	33.93	10.17	36.00	11.04	38.07	11.90	38.90	11.93	39.73	12.05	
39.00	24.93	6.85	29.43	8.53	33.93	10.22	36.00	11.08	38.07	11.95	38.90	11.98	39.73	12.10	
41.00	24.93	6.88	29.43	8.57	33.93	10.26	36.00	11.13	38.07	12.00	38.90	12.04	39.73	12.15	

Combination (Capacity index)	Outdoor temperature(°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
	43.00	24.93	6.91	29.43	8.61	33.93	10.31	36.00	11.18	38.07	12.06	38.90	12.09	39.73	12.21
	45.00	24.93	6.94	29.43	8.65	33.93	10.36	36.00	11.24	38.07	12.11	38.90	12.15	39.73	12.27
	47.00	24.93	6.98	29.43	8.69	33.93	10.41	36.00	11.29	38.07	12.17	38.90	12.21	39.73	12.32
	48.00	24.93	7.01	29.43	8.73	33.93	10.46	36.00	11.34	38.07	12.22	38.90	12.26	39.73	12.38
70%	10.00	21.81	2.92	25.75	3.63	29.69	4.35	31.50	4.72	33.31	5.09	34.04	5.10	34.76	5.15
	12.00	21.81	2.97	25.75	3.70	29.69	4.43	31.50	4.81	33.31	5.18	34.04	5.20	34.76	5.25
	14.00	21.81	3.02	25.75	3.77	29.69	4.51	31.50	4.89	33.31	5.27	34.04	5.29	34.76	5.34
	16.00	21.81	3.08	25.75	3.83	29.69	4.59	31.50	4.98	33.31	5.37	34.04	5.38	34.76	5.44
	18.00	21.81	3.13	25.75	3.90	29.69	4.67	31.50	5.07	33.31	5.46	34.04	5.48	34.76	5.53
	19.00	21.81	3.19	25.75	3.97	29.69	4.75	31.50	5.15	33.31	5.56	34.04	5.57	34.76	5.63
	21.00	21.81	3.42	25.75	4.26	29.69	5.10	31.50	5.53	33.31	5.96	34.04	5.98	34.76	6.03
	23.00	21.81	3.66	25.75	4.56	29.69	5.46	31.50	5.92	33.31	6.38	34.04	6.40	34.76	6.46
	25.00	21.81	3.91	25.75	4.88	29.69	5.84	31.50	6.33	33.31	6.83	34.04	6.85	34.76	6.92
	27.00	21.81	4.18	25.75	5.21	29.69	6.24	31.50	6.77	33.31	7.30	34.04	7.32	34.76	7.39
	29.00	21.81	4.47	25.75	5.57	29.69	6.67	31.50	7.23	33.31	7.79	34.04	7.82	34.76	7.89
	31.00	21.81	4.77	25.75	5.94	29.69	7.11	31.50	7.71	33.31	8.31	34.04	8.34	34.76	8.42
	33.00	21.81	5.08	25.75	6.32	29.69	7.57	31.50	8.21	33.31	8.85	34.04	8.88	34.76	8.97
	35.00	21.81	5.40	25.75	6.73	29.69	8.06	31.50	8.74	33.31	9.42	34.04	9.45	34.76	9.54
	37.00	21.81	5.74	25.75	7.16	29.69	8.57	31.50	9.29	33.31	10.02	34.04	10.05	34.76	10.15
	39.00	21.81	5.77	25.75	7.19	29.69	8.60	31.50	9.33	33.31	10.06	34.04	10.09	34.76	10.19
	41.00	21.81	5.79	25.75	7.22	29.69	8.64	31.50	9.37	33.31	10.11	34.04	10.14	34.76	10.24
	43.00	21.81	5.82	25.75	7.25	29.69	8.68	31.50	9.42	33.31	10.15	34.04	10.18	34.76	10.28
45.00	21.81	5.85	25.75	7.29	29.69	8.72	31.50	9.46	33.31	10.20	34.04	10.23	34.76	10.33	
47.00	21.81	5.87	25.75	7.32	29.69	8.76	31.50	9.51	33.31	10.25	34.04	10.28	34.76	10.38	
48.00	21.81	5.90	25.75	7.35	29.69	8.80	31.50	9.55	33.31	10.29	34.04	10.33	34.76	10.43	
60%	10.00	18.70	2.41	22.07	3.01	25.45	3.60	27.00	3.91	28.55	4.21	29.17	4.22	29.79	4.26
	12.00	18.70	2.46	22.07	3.06	25.45	3.67	27.00	3.98	28.55	4.29	29.17	4.30	29.79	4.34
	14.00	18.70	2.50	22.07	3.12	25.45	3.73	27.00	4.05	28.55	4.37	29.17	4.38	29.79	4.42
	16.00	18.70	2.55	22.07	3.17	25.45	3.80	27.00	4.12	28.55	4.44	29.17	4.46	29.79	4.50
	18.00	18.70	2.59	22.07	3.23	25.45	3.87	27.00	4.19	28.55	4.52	29.17	4.54	29.79	4.58
	19.00	18.70	2.64	22.07	3.29	25.45	3.93	27.00	4.27	28.55	4.60	29.17	4.61	29.79	4.66
	21.00	18.70	2.83	22.07	3.52	25.45	4.22	27.00	4.57	28.55	4.93	29.17	4.95	29.79	4.99
	23.00	18.70	3.03	22.07	3.77	25.45	4.52	27.00	4.90	28.55	5.28	29.17	5.30	29.79	5.35
	25.00	18.70	3.24	22.07	4.04	25.45	4.83	27.00	5.24	28.55	5.65	29.17	5.67	29.79	5.72
	27.00	18.70	3.46	22.07	4.32	25.45	5.17	27.00	5.60	28.55	6.04	29.17	6.06	29.79	6.12
	29.00	18.70	3.70	22.07	4.61	25.45	5.52	27.00	5.98	28.55	6.45	29.17	6.47	29.79	6.53
	31.00	18.70	3.94	22.07	4.91	25.45	5.88	27.00	6.38	28.55	6.88	29.17	6.90	29.79	6.97
	33.00	18.70	4.20	22.07	5.23	25.45	6.27	27.00	6.80	28.55	7.33	29.17	7.35	29.79	7.42
	35.00	18.70	4.47	22.07	5.57	25.45	6.67	27.00	7.23	28.55	7.80	29.17	7.82	29.79	7.90
	37.00	18.70	4.75	22.07	5.92	25.45	7.09	27.00	7.69	28.55	8.29	29.17	8.32	29.79	8.40
39.00	18.70	4.77	22.07	5.95	25.45	7.12	27.00	7.72	28.55	8.33	29.17	8.35	29.79	8.43	

Combination (Capacity index)	Outdoor temperature(°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
	41.00	18.70	4.80	22.07	5.97	25.45	7.15	27.00	7.76	28.55	8.36	29.17	8.39	29.79	8.47
	43.00	18.70	4.82	22.07	6.00	25.45	7.19	27.00	7.80	28.55	8.40	29.17	8.43	29.79	8.51
	45.00	18.70	4.84	22.07	6.03	25.45	7.22	27.00	7.83	28.55	8.44	29.17	8.47	29.79	8.55
	47.00	18.70	4.86	22.07	6.06	25.45	7.25	27.00	7.87	28.55	8.48	29.17	8.51	29.79	8.59
	48.00	18.70	4.88	22.07	6.09	25.45	7.29	27.00	7.90	28.55	8.52	29.17	8.55	29.79	8.63
50%	10.00	15.58	1.96	18.39	2.44	21.21	2.92	22.50	3.16	23.79	3.41	24.31	3.42	24.83	3.45
	12.00	15.58	1.99	18.39	2.48	21.21	2.97	22.50	3.22	23.79	3.47	24.31	3.48	24.83	3.52
	14.00	15.58	2.03	18.39	2.53	21.21	3.03	22.50	3.28	23.79	3.54	24.31	3.55	24.83	3.58
	16.00	15.58	2.06	18.39	2.57	21.21	3.08	22.50	3.34	23.79	3.60	24.31	3.61	24.83	3.65
	18.00	15.58	2.10	18.39	2.62	21.21	3.13	22.50	3.40	23.79	3.66	24.31	3.67	24.83	3.71
	19.00	15.58	2.14	18.39	2.66	21.21	3.19	22.50	3.46	23.79	3.73	24.31	3.74	24.83	3.77
	21.00	15.58	2.29	18.39	2.85	21.21	3.42	22.50	3.71	23.79	3.99	24.31	4.01	24.83	4.05
	23.00	15.58	2.45	18.39	3.06	21.21	3.66	22.50	3.97	23.79	4.28	24.31	4.29	24.83	4.33
	25.00	15.58	2.63	18.39	3.27	21.21	3.92	22.50	4.25	23.79	4.58	24.31	4.59	24.83	4.64
	27.00	15.58	2.81	18.39	3.50	21.21	4.19	22.50	4.54	23.79	4.89	24.31	4.91	24.83	4.96
	29.00	15.58	3.00	18.39	3.73	21.21	4.47	22.50	4.85	23.79	5.23	24.31	5.24	24.83	5.29
	31.00	15.58	3.20	18.39	3.98	21.21	4.77	22.50	5.17	23.79	5.57	24.31	5.59	24.83	5.65
	33.00	15.58	3.40	18.39	4.24	21.21	5.08	22.50	5.51	23.79	5.94	24.31	5.96	24.83	6.01
	35.00	15.58	3.62	18.39	4.51	21.21	5.40	22.50	5.86	23.79	6.32	24.31	6.34	24.83	6.40
	37.00	15.58	3.85	18.39	4.80	21.21	5.75	22.50	6.23	23.79	6.72	24.31	6.74	24.83	6.80
	39.00	15.58	3.87	18.39	4.82	21.21	5.77	22.50	6.26	23.79	6.75	24.31	6.77	24.83	6.83
	41.00	15.58	3.89	18.39	4.84	21.21	5.80	22.50	6.29	23.79	6.78	24.31	6.80	24.83	6.86
	43.00	15.58	3.90	18.39	4.86	21.21	5.82	22.50	6.32	23.79	6.81	24.31	6.83	24.83	6.90
	45.00	15.58	3.92	18.39	4.89	21.21	5.85	22.50	6.35	23.79	6.84	24.31	6.86	24.83	6.93
47.00	15.58	3.94	18.39	4.91	21.21	5.88	22.50	6.37	23.79	6.87	24.31	6.89	24.83	6.96	
48.00	15.58	3.96	18.39	4.93	21.21	5.90	22.50	6.40	23.79	6.90	24.31	6.92	24.83	6.99	

**8.3 Heating:  
MDVi-252(8)W/DSN1**

**TC: total capacity    PI: power input**

Combination (Capacity index)	Outdoor air temp.		Indoor temperature(°C DB)											
			16		18		20		21		22		24	
	°C DB	°C WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
130%	-14.7	-15	18.86	5.44	18.86	5.55	18.86	5.67	18.11	5.42	17.36	5.17	15.86	4.68
	-12.6	-13	19.91	5.53	19.91	5.64	19.91	5.76	19.12	5.51	18.33	5.26	16.75	4.75
	-10.5	-11	20.96	5.62	20.96	5.74	20.96	5.86	20.12	5.60	19.29	5.34	17.63	4.83
	-9.5	-10	21.46	5.66	21.46	5.78	21.46	5.90	20.60	5.64	19.75	5.38	18.05	4.87
	-8.5	-9.1	21.96	5.70	21.96	5.82	21.96	5.94	21.08	5.68	20.21	5.42	18.47	4.90
	-7	-7.6	22.70	5.77	22.70	5.89	22.70	6.01	21.80	5.75	20.90	5.49	19.10	4.96
	-5	-5.6	23.70	5.85	23.70	5.98	23.70	6.10	22.76	5.83	21.82	5.57	19.94	5.03
	-3	-3.7	24.70	5.94	24.70	6.06	24.70	6.19	23.72	5.92	22.74	5.65	20.78	5.11
	0	-0.7	26.20	6.07	26.20	6.19	26.20	6.32	25.16	6.05	24.12	5.77	22.04	5.22
	3	2.2	27.70	6.19	27.70	6.33	27.70	6.46	26.60	6.17	25.50	5.89	23.30	5.33
	5	4.1	28.70	6.28	28.70	6.41	28.70	6.55	27.56	6.26	26.42	5.97	24.15	5.40
	7	6	29.70	6.36	29.70	6.50	29.70	6.64	28.52	6.35	27.34	6.05	24.99	5.47
	9	7.9	29.70	6.15	29.70	6.28	29.70	6.41	28.52	6.13	27.34	5.85	24.99	5.29
	11	9.8	29.70	5.94	29.70	6.06	29.70	6.19	28.52	5.92	27.34	5.65	24.99	5.11
	13	11.8	29.70	5.72	29.70	5.85	29.70	5.97	28.52	5.71	27.34	5.44	24.99	4.92
15	13.7	29.70	5.51	29.70	5.63	29.70	5.74	28.52	5.49	27.34	5.24	24.99	4.74	
120%	-14.7	-15	18.86	5.60	18.86	5.72	18.86	5.84	18.11	5.58	17.36	5.32	15.86	4.81
	-12.6	-13	19.91	5.69	19.91	5.81	19.91	5.93	19.12	5.67	18.33	5.41	16.75	4.89
	-10.5	-11	20.96	5.78	20.96	5.90	20.96	6.03	20.12	5.76	19.29	5.50	17.63	4.97
	-9.5	-10	21.46	5.83	21.46	5.95	21.46	6.07	20.60	5.81	19.75	5.54	18.05	5.01
	-8.5	-9.1	21.96	5.87	21.96	5.99	21.96	6.12	21.08	5.85	20.21	5.58	18.47	5.05
	-7	-7.6	22.70	5.94	22.70	6.06	22.70	6.19	21.80	5.92	20.90	5.65	19.10	5.10
	-5	-5.6	23.70	6.02	23.70	6.15	23.70	6.28	22.76	6.01	21.82	5.73	19.94	5.18
	-3	-3.7	24.70	6.11	24.70	6.24	24.70	6.37	23.72	6.09	22.74	5.81	20.78	5.26
	0	-0.7	26.20	6.24	26.20	6.38	26.20	6.51	25.16	6.22	24.12	5.94	22.04	5.37
	3	2.2	27.70	6.38	27.70	6.51	27.70	6.65	26.60	6.36	25.50	6.07	23.30	5.48
	5	4.1	28.70	6.46	28.70	6.60	28.70	6.74	27.56	6.44	26.42	6.15	24.15	5.56
	7	6	29.70	6.55	29.70	6.69	29.70	6.83	28.52	6.53	27.34	6.23	24.99	5.63
	9	7.9	29.70	6.33	29.70	6.47	29.70	6.60	28.52	6.31	27.34	6.02	24.99	5.45
	11	9.8	29.70	6.11	29.70	6.24	29.70	6.37	28.52	6.09	27.34	5.81	24.99	5.26
	13	11.8	29.70	5.89	29.70	6.02	29.70	6.14	28.52	5.87	27.34	5.60	24.99	5.07
15	13.7	29.70	5.67	29.70	5.79	29.70	5.91	28.52	5.65	27.34	5.40	24.99	4.88	
110%	-14.7	-15	18.86	5.76	18.86	5.88	18.86	6.00	18.11	5.74	17.36	5.48	15.86	4.95
	-12.6	-13	19.91	5.85	19.91	5.98	19.91	6.10	19.12	5.83	18.33	5.57	16.75	5.03
	-10.5	-11	20.96	5.95	20.96	6.07	20.96	6.20	20.12	5.93	19.29	5.66	17.63	5.11
	-9.5	-10	21.46	5.99	21.46	6.12	21.46	6.25	20.60	5.97	19.75	5.70	18.05	5.15
	-8.5	-9.1	21.96	6.04	21.96	6.17	21.96	6.29	21.08	6.02	20.21	5.74	18.47	5.19
	-7	-7.6	22.70	6.10	22.70	6.24	22.70	6.37	21.80	6.09	20.90	5.81	19.10	5.25
	-5	-5.6	23.70	6.20	23.70	6.33	23.70	6.46	22.76	6.18	21.82	5.89	19.94	5.33

Combination (Capacity index)	Outdoor air temp.		Indoor temperature(°C DB)											
			16		18		20		21		22		24	
	°C DB	°C WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	-3	-3.7	24.70	6.29	24.70	6.42	24.70	6.55	23.72	6.27	22.74	5.98	20.78	5.41
	0	-0.7	26.20	6.42	26.20	6.56	26.20	6.70	25.16	6.40	24.12	6.11	22.04	5.52
	3	2.2	27.70	6.56	27.70	6.70	27.70	6.84	26.60	6.54	25.50	6.24	23.30	5.64
	5	4.1	28.70	6.65	28.70	6.79	28.70	6.93	27.56	6.63	26.42	6.32	24.15	5.72
	7	6	29.70	6.74	29.70	6.88	29.70	7.03	28.52	6.72	27.34	6.41	24.99	5.80
	9	7.9	29.70	6.51	29.70	6.65	29.70	6.79	28.52	6.49	27.34	6.20	24.99	5.60
	11	9.8	29.70	6.29	29.70	6.42	29.70	6.55	28.52	6.27	27.34	5.98	24.99	5.41
	13	11.8	29.70	6.06	29.70	6.19	29.70	6.32	28.52	6.04	27.34	5.77	24.99	5.21
	15	13.7	29.70	5.83	29.70	5.96	29.70	6.08	28.52	5.82	27.34	5.55	24.99	5.02
100%	-14.7	-15	17.14	5.08	17.14	5.19	17.14	5.30	16.46	5.06	15.78	4.83	14.42	4.37
	-12.6	-13	18.10	5.16	18.10	5.27	18.10	5.38	17.38	5.15	16.66	4.91	15.22	4.44
	-10.5	-11	19.05	5.25	19.05	5.36	19.05	5.47	18.29	5.23	17.54	4.99	16.03	4.51
	-9.5	-10	19.50	5.29	19.50	5.40	19.50	5.51	18.73	5.27	17.96	5.03	16.41	4.55
	-8.5	-9.1	19.96	5.33	19.96	5.44	19.96	5.55	19.17	5.31	18.38	5.07	16.79	4.58
	-7	-7.6	20.64	5.39	20.64	5.50	20.64	5.62	19.82	5.37	19.00	5.12	17.36	4.63
	-5	-5.6	21.55	5.47	21.55	5.58	21.55	5.70	20.69	5.45	19.84	5.20	18.13	4.70
	-3	-3.7	22.46	5.55	22.46	5.67	22.46	5.78	21.57	5.53	20.68	5.28	18.89	4.77
	0	-0.7	23.82	5.67	23.82	5.79	23.82	5.91	22.88	5.65	21.93	5.39	20.04	4.87
	3	2.2	25.18	5.79	25.18	5.91	25.18	6.03	24.18	5.77	23.18	5.50	21.19	4.98
	5	4.1	26.09	5.87	26.09	5.99	26.09	6.12	25.06	5.85	24.02	5.58	21.95	5.04
	7	6	27.00	5.95	27.00	6.07	27.00	6.21	25.93	5.93	24.86	5.66	22.71	5.11
	9	7.9	27.00	5.75	27.00	5.87	27.00	5.99	25.93	5.73	24.86	5.47	22.71	4.94
	11	9.8	27.00	5.55	27.00	5.67	27.00	5.78	25.93	5.53	24.86	5.28	22.71	4.77
	13	11.8	27.00	5.35	27.00	5.46	27.00	5.58	25.93	5.33	24.86	5.09	22.71	4.60
15	13.7	27.00	5.15	27.00	5.26	27.00	5.37	25.93	5.13	24.86	4.90	22.71	4.43	
90%	-14.7	-15	15.43	4.50	15.43	4.60	15.43	4.70	14.82	4.49	14.20	4.28	12.98	3.87
	-12.6	-13	16.29	4.58	16.29	4.68	16.29	4.77	15.64	4.56	14.99	4.36	13.70	3.94
	-10.5	-11	17.15	4.65	17.15	4.75	17.15	4.85	16.47	4.64	15.78	4.43	14.42	4.00
	-9.5	-10	17.55	4.69	17.55	4.79	17.55	4.89	16.86	4.67	16.16	4.46	14.77	4.03
	-8.5	-9.1	17.96	4.72	17.96	4.82	17.96	4.92	17.25	4.71	16.54	4.49	15.11	4.06
	-7	-7.6	18.58	4.78	18.58	4.88	18.58	4.98	17.84	4.76	17.10	4.54	15.63	4.11
	-5	-5.6	19.39	4.85	19.39	4.95	19.39	5.05	18.62	4.83	17.85	4.61	16.32	4.17
	-3	-3.7	20.21	4.92	20.21	5.02	20.21	5.13	19.41	4.90	18.61	4.68	17.00	4.23
	0	-0.7	21.44	5.02	21.44	5.13	21.44	5.24	20.59	5.01	19.74	4.78	18.04	4.32
	3	2.2	22.66	5.13	22.66	5.24	22.66	5.35	21.77	5.12	20.87	4.88	19.07	4.41
	5	4.1	23.48	5.20	23.48	5.31	23.48	5.42	22.55	5.19	21.62	4.95	19.76	4.47
	7	6	24.30	5.27	24.30	5.38	24.30	5.50	23.34	5.26	22.37	5.02	20.44	4.53
	9	7.9	24.30	5.10	24.30	5.20	24.30	5.31	23.34	5.08	22.37	4.85	20.44	4.38
	11	9.8	24.30	4.92	24.30	5.02	24.30	5.13	23.34	4.90	22.37	4.68	20.44	4.23
	13	11.8	24.30	4.74	24.30	4.84	24.30	4.94	23.34	4.73	22.37	4.51	20.44	4.08
15	13.7	24.30	4.56	24.30	4.66	24.30	4.76	23.34	4.55	22.37	4.34	20.44	3.93	

Combination (Capacity index)	Outdoor air temp.		Indoor temperature(°C DB)											
			16		18		20		21		22		24	
	°C DB	°C WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
80%	-14.7	-15	13.71	3.95	13.71	4.04	13.71	4.12	13.17	3.94	12.63	3.76	11.54	3.40
	-12.6	-13	14.48	4.02	14.48	4.11	14.48	4.19	13.90	4.01	13.33	3.82	12.18	3.46
	-10.5	-11	15.24	4.09	15.24	4.17	15.24	4.26	14.64	4.07	14.03	3.89	12.82	3.51
	-9.5	-10	15.60	4.12	15.60	4.20	15.60	4.29	14.98	4.10	14.37	3.92	13.13	3.54
	-8.5	-9.1	15.97	4.15	15.97	4.24	15.97	4.32	15.33	4.13	14.70	3.95	13.43	3.57
	-7	-7.6	16.51	4.19	16.51	4.28	16.51	4.37	15.86	4.18	15.20	3.99	13.89	3.61
	-5	-5.6	17.24	4.26	17.24	4.35	17.24	4.44	16.56	4.24	15.87	4.05	14.50	3.66
	-3	-3.7	17.97	4.32	17.97	4.41	17.97	4.50	17.25	4.31	16.54	4.11	15.11	3.71
	0	-0.7	19.06	4.41	19.06	4.51	19.06	4.60	18.30	4.40	17.54	4.20	16.03	3.79
	3	2.2	20.15	4.51	20.15	4.60	20.15	4.70	19.35	4.49	18.55	4.29	16.95	3.87
	5	4.1	20.87	4.57	20.87	4.66	20.87	4.76	20.04	4.55	19.22	4.35	17.56	3.93
	7	6	21.60	4.63	21.60	4.73	21.60	4.83	20.74	4.62	19.89	4.40	18.17	3.98
	9	7.9	21.60	4.47	21.60	4.57	21.60	4.67	20.74	4.46	19.89	4.26	18.17	3.85
	11	9.8	21.60	4.32	21.60	4.41	21.60	4.50	20.74	4.31	19.89	4.11	18.17	3.71
	13	11.8	21.60	4.16	21.60	4.25	21.60	4.34	20.74	4.15	19.89	3.96	18.17	3.58
15	13.7	21.60	4.01	21.60	4.09	21.60	4.18	20.74	4.00	19.89	3.81	18.17	3.45	
70%	-14.7	-15	12.00	3.41	12.00	3.48	12.00	3.55	11.52	3.40	11.05	3.24	10.10	2.93
	-12.6	-13	12.67	3.46	12.67	3.54	12.67	3.61	12.17	3.45	11.66	3.29	10.66	2.98
	-10.5	-11	13.34	3.52	13.34	3.59	13.34	3.67	12.81	3.51	12.28	3.35	11.22	3.03
	-9.5	-10	13.65	3.54	13.65	3.62	13.65	3.70	13.11	3.53	12.57	3.37	11.49	3.05
	-8.5	-9.1	13.97	3.57	13.97	3.65	13.97	3.72	13.42	3.56	12.86	3.40	11.75	3.07
	-7	-7.6	14.45	3.61	14.45	3.69	14.45	3.77	13.88	3.60	13.30	3.44	12.16	3.11
	-5	-5.6	15.08	3.67	15.08	3.74	15.08	3.82	14.49	3.65	13.89	3.49	12.69	3.15
	-3	-3.7	15.72	3.72	15.72	3.80	15.72	3.88	15.10	3.71	14.47	3.54	13.23	3.20
	0	-0.7	16.67	3.80	16.67	3.88	16.67	3.96	16.01	3.79	15.35	3.61	14.03	3.27
	3	2.2	17.63	3.88	17.63	3.96	17.63	4.05	16.93	3.87	16.23	3.69	14.83	3.34
	5	4.1	18.26	3.93	18.26	4.02	18.26	4.10	17.54	3.92	16.81	3.74	15.37	3.38
	7	6	18.90	3.99	18.90	4.07	18.90	4.16	18.15	3.97	17.40	3.79	15.90	3.43
	9	7.9	18.90	3.85	18.90	3.94	18.90	4.02	18.15	3.84	17.40	3.67	15.90	3.31
	11	9.8	18.90	3.72	18.90	3.80	18.90	3.88	18.15	3.71	17.40	3.54	15.90	3.20
	13	11.8	18.90	3.59	18.90	3.66	18.90	3.74	18.15	3.57	17.40	3.41	15.90	3.08
15	13.7	18.90	3.45	18.90	3.53	18.90	3.60	18.15	3.44	17.40	3.28	15.90	2.97	
60%	-14.7	-15	10.29	2.86	10.29	2.92	10.29	2.98	9.88	2.85	9.47	2.72	8.65	2.46
	-12.6	-13	10.86	2.90	10.86	2.97	10.86	3.03	10.43	2.89	10.00	2.76	9.13	2.50
	-10.5	-11	11.43	2.95	11.43	3.01	11.43	3.08	10.98	2.94	10.52	2.81	9.62	2.54
	-9.5	-10	11.70	2.97	11.70	3.04	11.70	3.10	11.24	2.96	10.77	2.83	9.85	2.56
	-8.5	-9.1	11.98	3.00	11.98	3.06	11.98	3.12	11.50	2.99	11.03	2.85	10.07	2.58
	-7	-7.6	12.38	3.03	12.38	3.09	12.38	3.16	11.89	3.02	11.40	2.88	10.42	2.61
	-5	-5.6	12.93	3.07	12.93	3.14	12.93	3.21	12.42	3.07	11.90	2.92	10.88	2.64
	-3	-3.7	13.47	3.12	13.47	3.19	13.47	3.25	12.94	3.11	12.41	2.97	11.34	2.68
	0	-0.7	14.29	3.19	14.29	3.25	14.29	3.32	13.73	3.18	13.16	3.03	12.02	2.74

Combination (Capacity index)	Outdoor air temp.		Indoor temperature(°C DB)											
			16		18		20		21		22		24	
	°C DB	°C WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	3	2.2	15.11	3.25	15.11	3.32	15.11	3.39	14.51	3.24	13.91	3.10	12.71	2.80
	5	4.1	15.65	3.30	15.65	3.37	15.65	3.44	15.03	3.29	14.41	3.14	13.17	2.84
	7	6	16.20	3.34	16.20	3.42	16.20	3.49	15.56	3.33	14.91	3.18	13.63	2.88
	9	7.9	16.20	3.23	16.20	3.30	16.20	3.37	15.56	3.22	14.91	3.07	13.63	2.78
	11	9.8	16.20	3.12	16.20	3.19	16.20	3.25	15.56	3.11	14.91	2.97	13.63	2.68
	13	11.8	16.20	3.01	16.20	3.07	16.20	3.14	15.56	3.00	14.91	2.86	13.63	2.59
	15	13.7	16.20	2.90	16.20	2.96	16.20	3.02	15.56	2.89	14.91	2.75	13.63	2.49
50%	-14.7	-15	8.57	2.31	8.57	2.36	8.57	2.41	8.23	2.30	7.89	2.20	7.21	1.98
	-12.6	-13	9.05	2.35	9.05	2.40	9.05	2.45	8.69	2.34	8.33	2.23	7.61	2.02
	-10.5	-11	9.53	2.38	9.53	2.43	9.53	2.49	9.15	2.38	8.77	2.27	8.01	2.05
	-9.5	-10	9.75	2.40	9.75	2.45	9.75	2.50	9.37	2.39	8.98	2.28	8.20	2.07
	-8.5	-9.1	9.98	2.42	9.98	2.47	9.98	2.52	9.58	2.41	9.19	2.30	8.40	2.08
	-7	-7.6	10.32	2.45	10.32	2.50	10.32	2.55	9.91	2.44	9.50	2.33	8.68	2.10
	-5	-5.6	10.77	2.48	10.77	2.54	10.77	2.59	10.35	2.48	9.92	2.36	9.06	2.14
	-3	-3.7	11.23	2.52	11.23	2.57	11.23	2.63	10.78	2.51	10.34	2.40	9.45	2.17
	0	-0.7	11.91	2.57	11.91	2.63	11.91	2.68	11.44	2.57	10.96	2.45	10.02	2.21
	3	2.2	12.59	2.63	12.59	2.68	12.59	2.74	12.09	2.62	11.59	2.50	10.59	2.26
	5	4.1	13.05	2.67	13.05	2.72	13.05	2.78	12.53	2.66	12.01	2.54	10.98	2.29
	7	6	13.50	2.70	13.50	2.76	13.50	2.82	12.96	2.69	12.43	2.57	11.36	2.32
	9	7.9	13.50	2.61	13.50	2.67	13.50	2.72	12.96	2.60	12.43	2.48	11.36	2.25
	11	9.8	13.50	2.52	13.50	2.57	13.50	2.63	12.96	2.51	12.43	2.40	11.36	2.17
	13	11.8	13.50	2.43	13.50	2.48	13.50	2.53	12.96	2.42	12.43	2.31	11.36	2.09
15	13.7	13.50	2.34	13.50	2.39	13.50	2.44	12.96	2.33	12.43	2.22	11.36	2.01	



## MDVi-280(10)W/DSN1

TC: total capacity PI: power input

Combination (Capacity index)	Outdoor air temp.		Indoor temperature(°C DB)											
			16		18		20		21		22		24	
	°C DB	°C WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
130%	-14.7	-15	22.00	6.77	22.00	6.91	22.00	7.06	21.13	6.75	20.25	6.44	18.51	5.82
	-12.6	-13	23.22	6.88	23.22	7.03	23.22	7.17	22.30	6.86	21.38	6.55	19.54	5.92
	-10.5	-11	24.45	6.99	24.45	7.14	24.45	7.29	23.48	6.97	22.51	6.65	20.57	6.01
	-9.5	-10	25.03	7.05	25.03	7.20	25.03	7.35	24.04	7.02	23.04	6.70	21.06	6.06
	-8.5	-9.1	25.61	7.10	25.61	7.25	25.61	7.40	24.60	7.08	23.58	6.75	21.55	6.11
	-7	-7.6	26.49	7.18	26.49	7.33	26.49	7.49	25.44	7.16	24.39	6.83	22.28	6.17
	-5	-5.6	27.65	7.29	27.65	7.44	27.65	7.60	26.56	7.26	25.46	6.93	23.27	6.27
	-3	-3.7	28.82	7.39	28.82	7.55	28.82	7.71	27.68	7.37	26.53	7.03	24.25	6.36
	0	-0.7	30.57	7.55	30.57	7.71	30.57	7.87	29.36	7.53	28.14	7.18	25.72	6.49
	3	2.2	32.32	7.71	32.32	7.88	32.32	8.04	31.04	7.69	29.75	7.34	27.19	6.63
	5	4.1	33.48	7.82	33.48	7.99	33.48	8.15	32.16	7.79	30.83	7.44	28.17	6.72
	7	6	34.65	7.92	34.65	8.09	34.65	8.26	33.28	7.90	31.90	7.54	29.15	6.82
	9	7.9	34.65	7.66	34.65	7.82	34.65	7.99	33.28	7.64	31.90	7.29	29.15	6.59
	11	9.8	34.65	7.39	34.65	7.55	34.65	7.71	33.28	7.37	31.90	7.03	29.15	6.36
	13	11.8	34.65	7.13	34.65	7.28	34.65	7.43	33.28	7.11	31.90	6.78	29.15	6.13
15	13.7	34.65	6.86	34.65	7.01	34.65	7.15	33.28	6.84	31.90	6.53	29.15	5.90	
120%	-14.7	-15	22.00	6.97	22.00	7.12	22.00	7.27	21.13	6.95	20.25	6.63	18.51	5.99
	-12.6	-13	23.22	7.08	23.22	7.23	23.22	7.39	22.30	7.06	21.38	6.74	19.54	6.09
	-10.5	-11	24.45	7.20	24.45	7.35	24.45	7.51	23.48	7.18	22.51	6.85	20.57	6.19
	-9.5	-10	25.03	7.25	25.03	7.41	25.03	7.56	24.04	7.23	23.04	6.90	21.06	6.24
	-8.5	-9.1	25.61	7.31	25.61	7.46	25.61	7.62	24.60	7.29	23.58	6.95	21.55	6.28
	-7	-7.6	26.49	7.39	26.49	7.55	26.49	7.71	25.44	7.37	24.39	7.03	22.28	6.36
	-5	-5.6	27.65	7.50	27.65	7.66	27.65	7.82	26.56	7.48	25.46	7.13	23.27	6.45
	-3	-3.7	28.82	7.61	28.82	7.77	28.82	7.93	27.68	7.59	26.53	7.24	24.25	6.54
	0	-0.7	30.57	7.77	30.57	7.94	30.57	8.11	29.36	7.75	28.14	7.40	25.72	6.69
	3	2.2	32.32	7.94	32.32	8.11	32.32	8.28	31.04	7.91	29.75	7.55	27.19	6.83
	5	4.1	33.48	8.05	33.48	8.22	33.48	8.39	32.16	8.02	30.83	7.66	28.17	6.92
	7	6	34.65	8.16	34.65	8.33	34.65	8.51	33.28	8.13	31.90	7.76	29.15	7.02
	9	7.9	34.65	7.88	34.65	8.05	34.65	8.22	33.28	7.86	31.90	7.50	29.15	6.78
	11	9.8	34.65	7.61	34.65	7.77	34.65	7.93	33.28	7.59	31.90	7.24	29.15	6.54
	13	11.8	34.65	7.34	34.65	7.49	34.65	7.65	33.28	7.31	31.90	6.98	29.15	6.31
15	13.7	34.65	7.06	34.65	7.21	34.65	7.36	33.28	7.04	31.90	6.72	29.15	6.07	
110%	-14.7	-15	22.00	7.17	22.00	7.32	22.00	7.47	21.13	7.15	20.25	6.82	18.51	6.16
	-12.6	-13	23.22	7.29	23.22	7.44	23.22	7.60	22.30	7.26	21.38	6.93	19.54	6.27
	-10.5	-11	24.45	7.40	24.45	7.56	24.45	7.72	23.48	7.38	22.51	7.04	20.57	6.37
	-9.5	-10	25.03	7.46	25.03	7.62	25.03	7.78	24.04	7.44	23.04	7.10	21.06	6.42
	-8.5	-9.1	25.61	7.52	25.61	7.68	25.61	7.84	24.60	7.49	23.58	7.15	21.55	6.46
	-7	-7.6	26.49	7.60	26.49	7.76	26.49	7.93	25.44	7.58	24.39	7.23	22.28	6.54
	-5	-5.6	27.65	7.71	27.65	7.88	27.65	8.04	26.56	7.69	25.46	7.34	23.27	6.63

Combination (Capacity index)	Outdoor air temp.		Indoor temperature(°C DB)											
			16		18		20		21		22		24	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	°C DB	°C WB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	
	-3	-3.7	28.82	7.83	28.82	7.99	28.82	8.16	27.68	7.80	26.53	7.45	24.25	6.73
	0	-0.7	30.57	8.00	30.57	8.17	30.57	8.34	29.36	7.97	28.14	7.61	25.72	6.88
	3	2.2	32.32	8.17	32.32	8.34	32.32	8.51	31.04	8.14	29.75	7.77	27.19	7.02
	5	4.1	33.48	8.28	33.48	8.45	33.48	8.63	32.16	8.25	30.83	7.88	28.17	7.12
	7	6	34.65	8.39	34.65	8.57	34.65	8.75	33.28	8.37	31.90	7.98	29.15	7.22
	9	7.9	34.65	8.11	34.65	8.28	34.65	8.46	33.28	8.08	31.90	7.71	29.15	6.97
	11	9.8	34.65	7.83	34.65	7.99	34.65	8.16	33.28	7.80	31.90	7.45	29.15	6.73
	13	11.8	34.65	7.55	34.65	7.71	34.65	7.87	33.28	7.52	31.90	7.18	29.15	6.49
	15	13.7	34.65	7.26	34.65	7.42	34.65	7.57	33.28	7.24	31.90	6.91	29.15	6.25
100%	-14.7	-15	20.00	6.32	20.00	6.46	20.00	6.59	19.21	6.31	18.41	6.02	16.83	5.44
	-12.6	-13	21.11	6.43	21.11	6.57	21.11	6.70	20.28	6.41	19.44	6.12	17.76	5.53
	-10.5	-11	22.23	6.53	22.23	6.67	22.23	6.81	21.34	6.51	20.46	6.22	18.70	5.62
	-9.5	-10	22.76	6.58	22.76	6.72	22.76	6.86	21.85	6.56	20.95	6.26	19.14	5.66
	-8.5	-9.1	23.29	6.63	23.29	6.77	23.29	6.92	22.36	6.61	21.44	6.31	19.59	5.70
	-7	-7.6	24.08	6.71	24.08	6.85	24.08	6.99	23.13	6.69	22.17	6.38	20.26	5.77
	-5	-5.6	25.14	6.81	25.14	6.95	25.14	7.10	24.14	6.79	23.15	6.48	21.15	5.85
	-3	-3.7	26.20	6.91	26.20	7.05	26.20	7.20	25.16	6.89	24.12	6.57	22.04	5.94
	0	-0.7	27.79	7.06	27.79	7.21	27.79	7.36	26.69	7.03	25.58	6.71	23.38	6.07
	3	2.2	29.38	7.21	29.38	7.36	29.38	7.51	28.21	7.18	27.05	6.85	24.72	6.20
	5	4.1	30.44	7.30	30.44	7.46	30.44	7.62	29.23	7.28	28.02	6.95	25.61	6.28
	7	6	31.50	7.40	31.50	7.56	31.50	7.72	30.25	7.38	29.00	7.04	26.50	6.37
	9	7.9	31.50	7.16	31.50	7.31	31.50	7.46	30.25	7.13	29.00	6.81	26.50	6.15
	11	9.8	31.50	6.91	31.50	7.05	31.50	7.20	30.25	6.89	29.00	6.57	26.50	5.94
	13	11.8	31.50	6.66	31.50	6.80	31.50	6.94	30.25	6.64	29.00	6.33	26.50	5.73
15	13.7	31.50	6.41	31.50	6.55	31.50	6.68	30.25	6.39	29.00	6.10	26.50	5.51	
90%	-14.7	-15	18.00	5.61	18.00	5.73	18.00	5.85	17.29	5.59	16.57	5.33	15.14	4.82
	-12.6	-13	19.00	5.70	19.00	5.82	19.00	5.94	18.25	5.68	17.49	5.42	15.99	4.90
	-10.5	-11	20.00	5.79	20.00	5.92	20.00	6.04	19.21	5.78	18.42	5.51	16.83	4.98
	-9.5	-10	20.48	5.84	20.48	5.96	20.48	6.09	19.67	5.82	18.85	5.55	17.23	5.02
	-8.5	-9.1	20.96	5.88	20.96	6.01	20.96	6.13	20.13	5.86	19.29	5.59	17.63	5.06
	-7	-7.6	21.67	5.95	21.67	6.07	21.67	6.20	20.81	5.93	19.95	5.66	18.23	5.11
	-5	-5.6	22.63	6.04	22.63	6.16	22.63	6.29	21.73	6.02	20.83	5.74	19.04	5.19
	-3	-3.7	23.58	6.12	23.58	6.25	23.58	6.39	22.64	6.11	21.71	5.83	19.84	5.27
	0	-0.7	25.01	6.26	25.01	6.39	25.01	6.52	24.02	6.24	23.03	5.95	21.04	5.38
	3	2.2	26.44	6.39	26.44	6.52	26.44	6.66	25.39	6.37	24.34	6.08	22.25	5.49
	5	4.1	27.40	6.48	27.40	6.61	27.40	6.75	26.31	6.46	25.22	6.16	23.05	5.57
	7	6	28.35	6.56	28.35	6.71	28.35	6.85	27.23	6.55	26.10	6.25	23.85	5.65
	9	7.9	28.35	6.34	28.35	6.48	28.35	6.62	27.23	6.33	26.10	6.04	23.85	5.46
	11	9.8	28.35	6.12	28.35	6.25	28.35	6.39	27.23	6.11	26.10	5.83	23.85	5.27
	13	11.8	28.35	5.90	28.35	6.03	28.35	6.16	27.23	5.89	26.10	5.62	23.85	5.08
15	13.7	28.35	5.68	28.35	5.80	28.35	5.93	27.23	5.67	26.10	5.41	23.85	4.89	

Combination (Capacity index)	Outdoor air temp.		Indoor temperature(°C DB)											
			16		18		20		21		22		24	
	°C DB	°C WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
80%	-14.7	-15	16.00	4.92	16.00	5.03	16.00	5.13	15.37	4.91	14.73	4.68	13.46	4.23
	-12.6	-13	16.89	5.01	16.89	5.11	16.89	5.22	16.22	4.99	15.55	4.76	14.21	4.30
	-10.5	-11	17.78	5.09	17.78	5.20	17.78	5.30	17.08	5.07	16.37	4.84	14.96	4.37
	-9.5	-10	18.20	5.13	18.20	5.23	18.20	5.34	17.48	5.11	16.76	4.88	15.32	4.41
	-8.5	-9.1	18.63	5.16	18.63	5.27	18.63	5.38	17.89	5.15	17.15	4.91	15.67	4.44
	-7	-7.6	19.26	5.22	19.26	5.33	19.26	5.45	18.50	5.21	17.74	4.97	16.21	4.49
	-5	-5.6	20.11	5.30	20.11	5.41	20.11	5.53	19.31	5.28	18.52	5.04	16.92	4.56
	-3	-3.7	20.96	5.38	20.96	5.49	20.96	5.61	20.13	5.36	19.30	5.12	17.63	4.62
	0	-0.7	22.23	5.49	22.23	5.61	22.23	5.73	21.35	5.48	20.47	5.23	18.70	4.72
	3	2.2	23.50	5.61	23.50	5.73	23.50	5.85	22.57	5.59	21.64	5.34	19.77	4.82
	5	4.1	24.35	5.69	24.35	5.81	24.35	5.93	23.39	5.67	22.42	5.41	20.49	4.89
	7	6	25.20	5.76	25.20	5.89	25.20	6.01	24.20	5.75	23.20	5.48	21.20	4.96
	9	7.9	25.20	5.57	25.20	5.69	25.20	5.81	24.20	5.55	23.20	5.30	21.20	4.79
	11	9.8	25.20	5.38	25.20	5.49	25.20	5.61	24.20	5.36	23.20	5.12	21.20	4.62
	13	11.8	25.20	5.18	25.20	5.29	25.20	5.41	24.20	5.17	23.20	4.93	21.20	4.46
15	13.7	25.20	4.99	25.20	5.10	25.20	5.20	24.20	4.98	23.20	4.75	21.20	4.29	
70%	-14.7	-15	14.00	4.24	14.00	4.33	14.00	4.42	13.44	4.23	12.89	4.03	11.78	3.65
	-12.6	-13	14.78	4.31	14.78	4.40	14.78	4.49	14.19	4.30	13.61	4.10	12.43	3.71
	-10.5	-11	15.56	4.38	15.56	4.47	15.56	4.57	14.94	4.37	14.32	4.17	13.09	3.77
	-9.5	-10	15.93	4.41	15.93	4.51	15.93	4.60	15.30	4.40	14.66	4.20	13.40	3.80
	-8.5	-9.1	16.30	4.45	16.30	4.54	16.30	4.64	15.65	4.43	15.01	4.23	13.71	3.82
	-7	-7.6	16.86	4.50	16.86	4.59	16.86	4.69	16.19	4.48	15.52	4.28	14.18	3.87
	-5	-5.6	17.60	4.56	17.60	4.66	17.60	4.76	16.90	4.55	16.20	4.34	14.81	3.92
	-3	-3.7	18.34	4.63	18.34	4.73	18.34	4.83	17.61	4.62	16.88	4.41	15.43	3.98
	0	-0.7	19.45	4.73	19.45	4.83	19.45	4.93	18.68	4.72	17.91	4.50	16.37	4.07
	3	2.2	20.57	4.83	20.57	4.93	20.57	5.04	19.75	4.82	18.93	4.60	17.30	4.15
	5	4.1	21.31	4.90	21.31	5.00	21.31	5.11	20.46	4.88	19.62	4.66	17.93	4.21
	7	6	22.05	4.96	22.05	5.07	22.05	5.18	21.18	4.95	20.30	4.72	18.55	4.27
	9	7.9	22.05	4.80	22.05	4.90	22.05	5.00	21.18	4.78	20.30	4.56	18.55	4.13
	11	9.8	22.05	4.63	22.05	4.73	22.05	4.83	21.18	4.62	20.30	4.41	18.55	3.98
	13	11.8	22.05	4.46	22.05	4.56	22.05	4.65	21.18	4.45	20.30	4.25	18.55	3.84
15	13.7	22.05	4.30	22.05	4.39	22.05	4.48	21.18	4.28	20.30	4.09	18.55	3.70	
60%	-14.7	-15	12.00	3.56	12.00	3.63	12.00	3.71	11.52	3.55	11.05	3.38	10.10	3.06
	-12.6	-13	12.67	3.62	12.67	3.69	12.67	3.77	12.17	3.60	11.66	3.44	10.66	3.11
	-10.5	-11	13.34	3.67	13.34	3.75	13.34	3.83	12.81	3.66	12.28	3.50	11.22	3.16
	-9.5	-10	13.65	3.70	13.65	3.78	13.65	3.86	13.11	3.69	12.57	3.52	11.49	3.18
	-8.5	-9.1	13.97	3.73	13.97	3.81	13.97	3.89	13.42	3.72	12.86	3.55	11.75	3.21
	-7	-7.6	14.45	3.77	14.45	3.85	14.45	3.93	13.88	3.76	13.30	3.59	12.16	3.24
	-5	-5.6	15.08	3.83	15.08	3.91	15.08	3.99	14.49	3.82	13.89	3.64	12.69	3.29
	-3	-3.7	15.72	3.88	15.72	3.97	15.72	4.05	15.10	3.87	14.47	3.70	13.23	3.34
	0	-0.7	16.67	3.97	16.67	4.05	16.67	4.14	16.01	3.96	15.35	3.77	14.03	3.41

Combination (Capacity index)	Outdoor air temp.		Indoor temperature(°C DB)											
			16		18		20		21		22		24	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	°C DB	°C WB	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	
	3	2.2	17.63	4.05	17.63	4.14	17.63	4.23	16.93	4.04	16.23	3.85	14.83	3.48
	5	4.1	18.26	4.11	18.26	4.20	18.26	4.28	17.54	4.10	16.81	3.91	15.37	3.53
	7	6	18.90	4.16	18.90	4.25	18.90	4.34	18.15	4.15	17.40	3.96	15.90	3.58
	9	7.9	18.90	4.02	18.90	4.11	18.90	4.20	18.15	4.01	17.40	3.83	15.90	3.46
	11	9.8	18.90	3.88	18.90	3.97	18.90	4.05	18.15	3.87	17.40	3.70	15.90	3.34
	13	11.8	18.90	3.74	18.90	3.82	18.90	3.90	18.15	3.73	17.40	3.56	15.90	3.22
	15	13.7	18.90	3.60	18.90	3.68	18.90	3.76	18.15	3.59	17.40	3.43	15.90	3.10
50%	-14.7	-15	10.00	2.87	10.00	2.93	10.00	3.00	9.60	2.86	9.21	2.73	8.41	2.47
	-12.6	-13	10.56	2.92	10.56	2.98	10.56	3.05	10.14	2.91	9.72	2.78	8.88	2.51
	-10.5	-11	11.11	2.97	11.11	3.03	11.11	3.09	10.67	2.96	10.23	2.82	9.35	2.55
	-9.5	-10	11.38	2.99	11.38	3.05	11.38	3.12	10.93	2.98	10.47	2.85	9.57	2.57
	-8.5	-9.1	11.64	3.01	11.64	3.08	11.64	3.14	11.18	3.00	10.72	2.87	9.79	2.59
	-7	-7.6	12.04	3.05	12.04	3.11	12.04	3.18	11.56	3.04	11.08	2.90	10.13	2.62
	-5	-5.6	12.57	3.09	12.57	3.16	12.57	3.22	12.07	3.08	11.57	2.94	10.58	2.66
	-3	-3.7	13.10	3.14	13.10	3.20	13.10	3.27	12.58	3.13	12.06	2.98	11.02	2.70
	0	-0.7	13.90	3.21	13.90	3.27	13.90	3.34	13.34	3.20	12.79	3.05	11.69	2.76
	3	2.2	14.69	3.27	14.69	3.34	14.69	3.41	14.11	3.26	13.52	3.11	12.36	2.81
	5	4.1	15.22	3.32	15.22	3.39	15.22	3.46	14.62	3.31	14.01	3.16	12.80	2.85
	7	6	15.75	3.36	15.75	3.44	15.75	3.51	15.13	3.35	14.50	3.20	13.25	2.89
	9	7.9	15.75	3.25	15.75	3.32	15.75	3.39	15.13	3.24	14.50	3.09	13.25	2.80
	11	9.8	15.75	3.14	15.75	3.20	15.75	3.27	15.13	3.13	14.50	2.99	13.25	2.70
	13	11.8	15.75	3.02	15.75	3.09	15.75	3.15	15.13	3.02	14.50	2.88	13.25	2.60
	15	13.7	15.75	2.91	15.75	2.97	15.75	3.04	15.13	2.90	14.50	2.77	13.25	2.50

## MDVi-335(12)W/DSN1

TC: total capacity PI: power input

Combination (Capacity index)	Outdoor air temp.		Indoor temperature(°C DB)											
			16		18		20		21		22		24	
	°C DB	°C WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
130%	-14.7	-15	26.19	7.98	26.19	8.15	26.19	8.32	25.15	7.96	24.11	7.59	22.03	6.86
	-12.6	-13	27.65	8.11	27.65	8.28	27.65	8.46	26.55	8.09	25.45	7.72	23.26	6.98
	-10.5	-11	29.11	8.24	29.11	8.42	29.11	8.59	27.95	8.22	26.80	7.84	24.49	7.09
	-9.5	-10	29.80	8.31	29.80	8.48	29.80	8.66	28.62	8.28	27.43	7.90	25.07	7.14
	-8.5	-9.1	30.49	8.37	30.49	8.55	30.49	8.73	29.28	8.34	28.07	7.96	25.65	7.20
	-7	-7.6	31.53	8.46	31.53	8.64	31.53	8.82	30.28	8.44	29.03	8.05	26.53	7.28
	-5	-5.6	32.92	8.59	32.92	8.77	32.92	8.95	31.62	8.56	30.31	8.17	27.70	7.39
	-3	-3.7	34.31	8.71	34.31	8.90	34.31	9.09	32.95	8.69	31.59	8.29	28.86	7.49
	0	-0.7	36.39	8.90	36.39	9.09	36.39	9.28	34.95	8.88	33.50	8.47	30.62	7.66
	3	2.2	38.47	9.09	38.47	9.28	38.47	9.48	36.95	9.06	35.42	8.65	32.37	7.82
	5	4.1	39.86	9.22	39.86	9.41	39.86	9.61	38.28	9.19	36.70	8.77	33.53	7.93
	7	6	41.25	9.34	41.25	9.54	41.25	9.74	39.61	9.31	37.98	8.89	34.70	8.03
	9	7.9	41.25	9.03	41.25	9.22	41.25	9.41	39.61	9.00	37.98	8.59	34.70	7.76
	11	9.8	41.25	8.71	41.25	8.90	41.25	9.09	39.61	8.69	37.98	8.29	34.70	7.49
	13	11.8	41.25	8.40	41.25	8.58	41.25	8.76	39.61	8.38	37.98	7.99	34.70	7.22
15	13.7	41.25	8.09	41.25	8.26	41.25	8.43	39.61	8.06	37.98	7.69	34.70	6.95	
120%	-14.7	-15	26.19	8.21	26.19	8.39	26.19	8.56	25.15	8.19	24.11	7.81	22.03	7.06
	-12.6	-13	27.65	8.35	27.65	8.53	27.65	8.71	26.55	8.32	25.45	7.94	23.26	7.18
	-10.5	-11	29.11	8.49	29.11	8.67	29.11	8.85	27.95	8.46	26.80	8.07	24.49	7.30
	-9.5	-10	29.80	8.55	29.80	8.73	29.80	8.91	28.62	8.52	27.43	8.13	25.07	7.35
	-8.5	-9.1	30.49	8.61	30.49	8.80	30.49	8.98	29.28	8.59	28.07	8.20	25.65	7.41
	-7	-7.6	31.53	8.71	31.53	8.90	31.53	9.08	30.28	8.69	29.03	8.29	26.53	7.49
	-5	-5.6	32.92	8.84	32.92	9.03	32.92	9.22	31.62	8.81	30.31	8.41	27.70	7.60
	-3	-3.7	34.31	8.97	34.31	9.16	34.31	9.35	32.95	8.94	31.59	8.53	28.86	7.71
	0	-0.7	36.39	9.16	36.39	9.36	36.39	9.55	34.95	9.14	33.50	8.72	30.62	7.88
	3	2.2	38.47	9.36	38.47	9.56	38.47	9.76	36.95	9.33	35.42	8.90	32.37	8.05
	5	4.1	39.86	9.49	39.86	9.69	39.86	9.89	38.28	9.46	36.70	9.03	33.53	8.16
	7	6	41.25	9.62	41.25	9.82	41.25	10.03	39.61	9.59	37.98	9.15	34.70	8.27
	9	7.9	41.25	9.29	41.25	9.49	41.25	9.69	39.61	9.27	37.98	8.84	34.70	7.99
	11	9.8	41.25	8.97	41.25	9.16	41.25	9.35	39.61	8.94	37.98	8.53	34.70	7.71
	13	11.8	41.25	8.65	41.25	8.83	41.25	9.02	39.61	8.62	37.98	8.23	34.70	7.44
15	13.7	41.25	8.32	41.25	8.50	41.25	8.68	39.61	8.30	37.98	7.92	34.70	7.16	
110%	-14.7	-15	26.19	8.45	26.19	8.63	26.19	8.81	25.15	8.42	24.11	8.04	22.03	7.27
	-12.6	-13	27.65	8.59	27.65	8.77	27.65	8.95	26.55	8.56	25.45	8.17	23.26	7.39
	-10.5	-11	29.11	8.73	29.11	8.91	29.11	9.10	27.95	8.70	26.80	8.30	24.49	7.51
	-9.5	-10	29.80	8.79	29.80	8.98	29.80	9.17	28.62	8.77	27.43	8.37	25.07	7.56
	-8.5	-9.1	30.49	8.86	30.49	9.05	30.49	9.24	29.28	8.83	28.07	8.43	25.65	7.62
	-7	-7.6	31.53	8.96	31.53	9.15	31.53	9.34	30.28	8.93	29.03	8.52	26.53	7.71
	-5	-5.6	32.92	9.09	32.92	9.29	32.92	9.48	31.62	9.07	30.31	8.65	27.70	7.82

Combination (Capacity index)	Outdoor air temp.		Indoor temperature(°C DB)											
			16		18		20		21		22		24	
	°C DB	°C WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	-3	-3.7	34.31	9.23	34.31	9.42	34.31	9.62	32.95	9.20	31.59	8.78	28.86	7.93
	0	-0.7	36.39	9.43	36.39	9.63	36.39	9.83	34.95	9.40	33.50	8.97	30.62	8.11
	3	2.2	38.47	9.63	38.47	9.83	38.47	10.04	36.95	9.60	35.42	9.16	32.37	8.28
	5	4.1	39.86	9.76	39.86	9.97	39.86	10.17	38.28	9.73	36.70	9.28	33.53	8.39
	7	6	41.25	9.89	41.25	10.10	41.25	10.31	39.61	9.86	37.98	9.41	34.70	8.51
	9	7.9	41.25	9.56	41.25	9.76	41.25	9.97	39.61	9.53	37.98	9.09	34.70	8.22
	11	9.8	41.25	9.23	41.25	9.42	41.25	9.62	39.61	9.20	37.98	8.78	34.70	7.93
	13	11.8	41.25	8.89	41.25	9.08	41.25	9.27	39.61	8.87	37.98	8.46	34.70	7.65
	15	13.7	41.25	8.56	41.25	8.75	41.25	8.93	39.61	8.54	37.98	8.15	34.70	7.36
100%	-14.7	-15	23.81	7.45	23.81	7.61	23.81	7.77	22.86	7.43	21.92	7.09	20.03	6.41
	-12.6	-13	25.13	7.58	25.13	7.74	25.13	7.90	24.14	7.56	23.14	7.21	21.14	6.52
	-10.5	-11	26.46	7.70	26.46	7.87	26.46	8.03	25.41	7.68	24.36	7.33	22.26	6.62
	-9.5	-10	27.09	7.76	27.09	7.93	27.09	8.09	26.02	7.74	24.94	7.38	22.79	6.67
	-8.5	-9.1	27.72	7.82	27.72	7.99	27.72	8.15	26.62	7.79	25.52	7.44	23.32	6.72
	-7	-7.6	28.67	7.91	28.67	8.08	28.67	8.24	27.53	7.88	26.39	7.52	24.12	6.80
	-5	-5.6	29.93	8.02	29.93	8.20	29.93	8.37	28.74	8.00	27.55	7.63	25.18	6.90
	-3	-3.7	31.19	8.14	31.19	8.31	31.19	8.49	29.95	8.12	28.72	7.74	26.24	7.00
	0	-0.7	33.08	8.32	33.08	8.49	33.08	8.67	31.77	8.29	30.46	7.91	27.83	7.15
	3	2.2	34.98	8.49	34.98	8.67	34.98	8.86	33.59	8.47	32.20	8.08	29.42	7.30
	5	4.1	36.24	8.61	36.24	8.79	36.24	8.98	34.80	8.58	33.36	8.19	30.49	7.40
	7	6	37.50	8.73	37.50	8.91	37.50	9.10	36.01	8.70	34.52	8.30	31.55	7.51
	9	7.9	37.50	8.43	37.50	8.61	37.50	8.79	36.01	8.41	34.52	8.02	31.55	7.25
	11	9.8	37.50	8.14	37.50	8.32	37.50	8.49	36.01	8.12	34.52	7.75	31.55	7.00
	13	11.8	37.50	7.85	37.50	8.02	37.50	8.18	36.01	7.82	34.52	7.47	31.55	6.75
15	13.7	37.50	7.56	37.50	7.72	37.50	7.88	36.01	7.53	34.52	7.19	31.55	6.50	
90%	-14.7	-15	21.43	6.61	21.43	6.75	21.43	6.89	20.58	6.59	19.73	6.29	18.03	5.68
	-12.6	-13	22.62	6.72	22.62	6.86	22.62	7.01	21.72	6.70	20.83	6.39	19.03	5.78
	-10.5	-11	23.81	6.83	23.81	6.97	23.81	7.12	22.87	6.81	21.92	6.50	20.03	5.87
	-9.5	-10	24.38	6.88	24.38	7.03	24.38	7.17	23.41	6.86	22.45	6.55	20.51	5.92
	-8.5	-9.1	24.95	6.93	24.95	7.08	24.95	7.23	23.96	6.91	22.97	6.59	20.99	5.96
	-7	-7.6	25.80	7.01	25.80	7.16	25.80	7.31	24.78	6.99	23.75	6.67	21.71	6.03
	-5	-5.6	26.94	7.11	26.94	7.27	26.94	7.42	25.87	7.09	24.80	6.77	22.66	6.12
	-3	-3.7	28.07	7.22	28.07	7.37	28.07	7.53	26.96	7.20	25.84	6.87	23.62	6.21
	0	-0.7	29.78	7.37	29.78	7.53	29.78	7.69	28.59	7.35	27.41	7.02	25.05	6.34
	3	2.2	31.48	7.53	31.48	7.69	31.48	7.85	30.23	7.51	28.98	7.16	26.48	6.48
	5	4.1	32.61	7.63	32.61	7.80	32.61	7.96	31.32	7.61	30.03	7.26	27.44	6.57
	7	6	33.75	7.74	33.75	7.90	33.75	8.07	32.41	7.72	31.07	7.36	28.39	6.65
	9	7.9	33.75	7.48	33.75	7.64	33.75	7.80	32.41	7.46	31.07	7.11	28.39	6.43
	11	9.8	33.75	7.22	33.75	7.37	33.75	7.53	32.41	7.20	31.07	6.87	28.39	6.21
	13	11.8	33.75	6.96	33.75	7.11	33.75	7.26	32.41	6.94	31.07	6.62	28.39	5.98
15	13.7	33.75	6.70	33.75	6.84	33.75	6.98	32.41	6.68	31.07	6.37	28.39	5.76	

Combination (Capacity index)	Outdoor air temp.		Indoor temperature(°C DB)											
			16		18		20		21		22		24	
	°C DB	°C WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
80%	-14.7	-15	19.05	5.80	19.05	5.93	19.05	6.05	18.29	5.79	17.54	5.52	16.02	4.99
	-12.6	-13	20.11	5.90	20.11	6.03	20.11	6.15	19.31	5.88	18.51	5.61	16.92	5.07
	-10.5	-11	21.17	6.00	21.17	6.12	21.17	6.25	20.33	5.98	19.49	5.70	17.81	5.16
	-9.5	-10	21.67	6.04	21.67	6.17	21.67	6.30	20.81	6.02	19.95	5.75	18.23	5.20
	-8.5	-9.1	22.18	6.09	22.18	6.22	22.18	6.35	21.30	6.07	20.42	5.79	18.66	5.23
	-7	-7.6	22.93	6.16	22.93	6.29	22.93	6.42	22.02	6.14	21.11	5.86	19.29	5.29
	-5	-5.6	23.94	6.25	23.94	6.38	23.94	6.51	22.99	6.23	22.04	5.94	20.14	5.37
	-3	-3.7	24.95	6.34	24.95	6.47	24.95	6.61	23.96	6.32	22.97	6.03	20.99	5.45
	0	-0.7	26.47	6.48	26.47	6.61	26.47	6.75	25.42	6.46	24.37	6.16	22.27	5.57
	3	2.2	27.98	6.61	27.98	6.75	27.98	6.89	26.87	6.59	25.76	6.29	23.54	5.69
	5	4.1	28.99	6.70	28.99	6.85	28.99	6.99	27.84	6.68	26.69	6.38	24.39	5.76
	7	6	30.00	6.80	30.00	6.94	30.00	7.09	28.81	6.77	27.62	6.46	25.24	5.84
	9	7.9	30.00	6.57	30.00	6.71	30.00	6.85	28.81	6.55	27.62	6.25	25.24	5.65
	11	9.8	30.00	6.34	30.00	6.47	30.00	6.61	28.81	6.32	27.62	6.03	25.24	5.45
	13	11.8	30.00	6.11	30.00	6.24	30.00	6.37	28.81	6.09	27.62	5.81	25.24	5.25
15	13.7	30.00	5.88	30.00	6.01	30.00	6.13	28.81	5.86	27.62	5.60	25.24	5.06	
70%	-14.7	-15	16.67	5.00	16.67	5.11	16.67	5.21	16.01	4.98	15.34	4.76	14.02	4.30
	-12.6	-13	17.59	5.08	17.59	5.19	17.59	5.30	16.90	5.07	16.20	4.83	14.80	4.37
	-10.5	-11	18.52	5.16	18.52	5.27	18.52	5.38	17.79	5.15	17.05	4.91	15.58	4.44
	-9.5	-10	18.96	5.20	18.96	5.31	18.96	5.42	18.21	5.19	17.46	4.95	15.95	4.47
	-8.5	-9.1	19.40	5.24	19.40	5.35	19.40	5.47	18.63	5.23	17.86	4.99	16.32	4.51
	-7	-7.6	20.07	5.30	20.07	5.41	20.07	5.53	19.27	5.29	18.47	5.04	16.88	4.56
	-5	-5.6	20.95	5.38	20.95	5.49	20.95	5.61	20.12	5.36	19.29	5.12	17.63	4.63
	-3	-3.7	21.83	5.46	21.83	5.57	21.83	5.69	20.97	5.44	20.10	5.19	18.37	4.69
	0	-0.7	23.16	5.58	23.16	5.70	23.16	5.81	22.24	5.56	21.32	5.30	19.48	4.80
	3	2.2	24.48	5.69	24.48	5.82	24.48	5.94	23.51	5.68	22.54	5.42	20.60	4.90
	5	4.1	25.37	5.77	25.37	5.90	25.37	6.02	24.36	5.76	23.35	5.49	21.34	4.96
	7	6	26.25	5.85	26.25	5.98	26.25	6.10	25.21	5.83	24.17	5.57	22.08	5.03
	9	7.9	26.25	5.66	26.25	5.78	26.25	5.90	25.21	5.64	24.17	5.38	22.08	4.86
	11	9.8	26.25	5.46	26.25	5.58	26.25	5.69	25.21	5.44	24.17	5.19	22.08	4.69
	13	11.8	26.25	5.26	26.25	5.37	26.25	5.49	25.21	5.25	24.17	5.01	22.08	4.53
15	13.7	26.25	5.07	26.25	5.17	26.25	5.28	25.21	5.05	24.17	4.82	22.08	4.36	
60%	-14.7	-15	14.29	4.19	14.29	4.28	14.29	4.37	13.72	4.18	13.15	3.99	12.02	3.61
	-12.6	-13	15.08	4.26	15.08	4.35	15.08	4.44	14.48	4.25	13.88	4.05	12.69	3.67
	-10.5	-11	15.88	4.33	15.88	4.42	15.88	4.52	15.25	4.32	14.62	4.12	13.36	3.72
	-9.5	-10	16.25	4.36	16.25	4.46	16.25	4.55	15.61	4.35	14.96	4.15	13.67	3.75
	-8.5	-9.1	16.63	4.40	16.63	4.49	16.63	4.58	15.97	4.38	15.31	4.18	13.99	3.78
	-7	-7.6	17.20	4.45	17.20	4.54	17.20	4.64	16.52	4.43	15.84	4.23	14.47	3.82
	-5	-5.6	17.96	4.51	17.96	4.61	17.96	4.71	17.24	4.50	16.53	4.29	15.11	3.88
	-3	-3.7	18.71	4.58	18.71	4.68	18.71	4.77	17.97	4.56	17.23	4.36	15.74	3.94
	0	-0.7	19.85	4.68	19.85	4.78	19.85	4.88	19.06	4.66	18.27	4.45	16.70	4.02

Combination (Capacity index)	Outdoor air temp.		Indoor temperature(°C DB)											
			16		18		20		21		22		24	
	°C DB	°C WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	3	2.2	20.99	4.78	20.99	4.88	20.99	4.98	20.15	4.76	19.32	4.54	17.65	4.11
	5	4.1	21.74	4.84	21.74	4.95	21.74	5.05	20.88	4.83	20.02	4.61	18.29	4.16
	7	6	22.50	4.91	22.50	5.01	22.50	5.12	21.61	4.89	20.71	4.67	18.93	4.22
	9	7.9	22.50	4.74	22.50	4.84	22.50	4.95	21.61	4.73	20.71	4.51	18.93	4.08
	11	9.8	22.50	4.58	22.50	4.68	22.50	4.77	21.61	4.56	20.71	4.36	18.93	3.94
	13	11.8	22.50	4.41	22.50	4.51	22.50	4.60	21.61	4.40	20.71	4.20	18.93	3.80
	15	13.7	22.50	4.25	22.50	4.34	22.50	4.43	21.61	4.24	20.71	4.04	18.93	3.65
50%	-14.7	-15	11.90	3.39	11.90	3.46	11.90	3.53	11.43	3.38	10.96	3.22	10.02	2.91
	-12.6	-13	12.57	3.44	12.57	3.52	12.57	3.59	12.07	3.43	11.57	3.28	10.57	2.96
	-10.5	-11	13.23	3.50	13.23	3.57	13.23	3.65	12.70	3.49	12.18	3.33	11.13	3.01
	-9.5	-10	13.55	3.53	13.55	3.60	13.55	3.68	13.01	3.51	12.47	3.35	11.40	3.03
	-8.5	-9.1	13.86	3.55	13.86	3.63	13.86	3.70	13.31	3.54	12.76	3.38	11.66	3.05
	-7	-7.6	14.33	3.59	14.33	3.67	14.33	3.75	13.76	3.58	13.20	3.42	12.06	3.09
	-5	-5.6	14.96	3.65	14.96	3.72	14.96	3.80	14.37	3.63	13.78	3.47	12.59	3.13
	-3	-3.7	15.60	3.70	15.60	3.78	15.60	3.86	14.98	3.69	14.36	3.52	13.12	3.18
	0	-0.7	16.54	3.78	16.54	3.86	16.54	3.94	15.89	3.77	15.23	3.59	13.92	3.25
	3	2.2	17.49	3.86	17.49	3.94	17.49	4.02	16.79	3.85	16.10	3.67	14.71	3.32
	5	4.1	18.12	3.91	18.12	4.00	18.12	4.08	17.40	3.90	16.68	3.72	15.24	3.36
	7	6	18.75	3.97	18.75	4.05	18.75	4.13	18.01	3.95	17.26	3.77	15.77	3.41
	9	7.9	18.75	3.83	18.75	3.91	18.75	4.00	18.01	3.82	17.26	3.65	15.77	3.30
	11	9.8	18.75	3.70	18.75	3.78	18.75	3.86	18.01	3.69	17.26	3.52	15.77	3.18
	13	11.8	18.75	3.57	18.75	3.64	18.75	3.72	18.01	3.55	17.26	3.39	15.77	3.07
15	13.7	18.75	3.43	18.75	3.51	18.75	3.58	18.01	3.42	17.26	3.27	15.77	2.95	



## MDVi-400(14)W/DSN1

TC: total capacity PI: power input

Combination (Capacity index)	Outdoor air temp.		Indoor temperature(°C DB)											
			16		18		20		21		22		24	
	°C DB	°C WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
130%	-14.7	-15	31.43	9.80	31.43	10.01	31.43	10.22	30.18	9.77	28.93	9.33	26.44	8.43
	-12.6	-13	33.18	9.97	33.18	10.18	33.18	10.39	31.86	9.94	30.54	9.48	27.91	8.57
	-10.5	-11	34.93	10.13	34.93	10.34	34.93	10.56	33.54	10.10	32.15	9.63	29.38	8.71
	-9.5	-10	35.76	10.20	35.76	10.42	35.76	10.64	34.34	10.17	32.92	9.71	30.08	8.78
	-8.5	-9.1	36.59	10.28	36.59	10.50	36.59	10.72	35.14	10.25	33.69	9.78	30.78	8.84
	-7	-7.6	37.84	10.40	37.84	10.62	37.84	10.84	36.34	10.37	34.84	9.89	31.83	8.94
	-5	-5.6	39.51	10.55	39.51	10.78	39.51	11.00	37.94	10.52	36.37	10.04	33.24	9.07
	-3	-3.7	41.17	10.71	41.17	10.93	41.17	11.16	39.54	10.67	37.90	10.18	34.64	9.21
	0	-0.7	43.67	10.94	43.67	11.17	43.67	11.40	41.94	10.90	40.20	10.40	36.74	9.41
	3	2.2	46.17	11.17	46.17	11.41	46.17	11.64	44.34	11.13	42.50	10.62	38.84	9.60
	5	4.1	47.83	11.32	47.83	11.56	47.83	11.81	45.94	11.29	44.04	10.77	40.24	9.74
	7	6	49.50	11.48	49.50	11.72	49.50	11.97	47.54	11.44	45.57	10.92	41.64	9.87
	9	7.9	49.50	11.09	49.50	11.33	49.50	11.56	47.54	11.06	45.57	10.55	41.64	9.54
	11	9.8	49.50	10.71	49.50	10.93	49.50	11.16	47.54	10.67	45.57	10.18	41.64	9.21
	13	11.8	49.50	10.32	49.50	10.54	49.50	10.76	47.54	10.29	45.57	9.82	41.64	8.88
	15	13.7	49.50	9.94	49.50	10.15	49.50	10.36	47.54	9.91	45.57	9.45	41.64	8.54
120%	-14.7	-15	31.43	10.09	31.43	10.31	31.43	10.52	30.18	10.06	28.93	9.60	26.44	8.68
	-12.6	-13	33.18	10.26	33.18	10.48	33.18	10.70	31.86	10.23	30.54	9.76	27.91	8.82
	-10.5	-11	34.93	10.42	34.93	10.65	34.93	10.87	33.54	10.39	32.15	9.92	29.38	8.96
	-9.5	-10	35.76	10.50	35.76	10.73	35.76	10.95	34.34	10.47	32.92	9.99	30.08	9.03
	-8.5	-9.1	36.59	10.58	36.59	10.81	36.59	11.04	35.14	10.55	33.69	10.07	30.78	9.10
	-7	-7.6	37.84	10.70	37.84	10.93	37.84	11.16	36.34	10.67	34.84	10.18	31.83	9.20
	-5	-5.6	39.51	10.86	39.51	11.09	39.51	11.32	37.94	10.83	36.37	10.33	33.24	9.34
	-3	-3.7	41.17	11.02	41.17	11.26	41.17	11.49	39.54	10.99	37.90	10.48	34.64	9.48
	0	-0.7	43.67	11.26	43.67	11.50	43.67	11.74	41.94	11.22	40.20	10.71	36.74	9.68
	3	2.2	46.17	11.50	46.17	11.74	46.17	11.99	44.34	11.46	42.50	10.94	38.84	9.89
	5	4.1	47.83	11.66	47.83	11.90	47.83	12.15	45.94	11.62	44.04	11.09	40.24	10.02
	7	6	49.50	11.81	49.50	12.07	49.50	12.32	47.54	11.78	45.57	11.24	41.64	10.16
	9	7.9	49.50	11.42	49.50	11.66	49.50	11.90	47.54	11.38	45.57	10.86	41.64	9.82
	11	9.8	49.50	11.02	49.50	11.26	49.50	11.49	47.54	10.99	45.57	10.48	41.64	9.48
	13	11.8	49.50	10.62	49.50	10.85	49.50	11.08	47.54	10.59	45.57	10.11	41.64	9.14
	15	13.7	49.50	10.23	49.50	10.45	49.50	10.66	47.54	10.20	45.57	9.73	41.64	8.80
110%	-14.7	-15	31.43	10.38	31.43	10.60	31.43	10.82	30.18	10.35	28.93	9.87	26.44	8.93
	-12.6	-13	33.18	10.55	33.18	10.78	33.18	11.00	31.86	10.52	30.54	10.04	27.91	9.07
	-10.5	-11	34.93	10.72	34.93	10.95	34.93	11.18	33.54	10.69	32.15	10.20	29.38	9.22
	-9.5	-10	35.76	10.80	35.76	11.03	35.76	11.27	34.34	10.77	32.92	10.28	30.08	9.29
	-8.5	-9.1	36.59	10.89	36.59	11.12	36.59	11.35	35.14	10.85	33.69	10.36	30.78	9.36
	-7	-7.6	37.84	11.01	37.84	11.24	37.84	11.48	36.34	10.98	34.84	10.47	31.83	9.47
	-5	-5.6	39.51	11.17	39.51	11.41	39.51	11.65	37.94	11.14	36.37	10.63	33.24	9.61

Combination (Capacity index)	Outdoor air temp.		Indoor temperature(°C DB)											
			16		18		20		21		22		24	
	°C DB	°C WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	-3	-3.7	41.17	11.34	41.17	11.58	41.17	11.82	39.54	11.30	37.90	10.78	34.64	9.75
	0	-0.7	43.67	11.58	43.67	11.83	43.67	12.07	41.94	11.55	40.20	11.02	36.74	9.96
	3	2.2	46.17	11.83	46.17	12.08	46.17	12.33	44.34	11.79	42.50	11.25	38.84	10.17
	5	4.1	47.83	11.99	47.83	12.24	47.83	12.50	45.94	11.95	44.04	11.40	40.24	10.31
	7	6	49.50	12.15	49.50	12.41	49.50	12.67	47.54	12.12	45.57	11.56	41.64	10.45
	9	7.9	49.50	11.74	49.50	11.99	49.50	12.24	47.54	11.71	45.57	11.17	41.64	10.10
	11	9.8	49.50	11.34	49.50	11.58	49.50	11.82	47.54	11.30	45.57	10.78	41.64	9.75
	13	11.8	49.50	10.93	49.50	11.16	49.50	11.39	47.54	10.89	45.57	10.40	41.64	9.40
	15	13.7	49.50	10.52	49.50	10.74	49.50	10.97	47.54	10.49	45.57	10.01	41.64	9.05
100%	-14.7	-15	28.57	9.16	28.57	9.35	28.57	9.55	27.44	9.13	26.30	8.71	24.04	7.88
	-12.6	-13	30.16	9.31	30.16	9.51	30.16	9.71	28.96	9.28	27.77	8.86	25.37	8.01
	-10.5	-11	31.75	9.46	31.75	9.66	31.75	9.87	30.49	9.43	29.23	9.00	26.71	8.14
	-9.5	-10	32.51	9.53	32.51	9.74	32.51	9.94	31.22	9.50	29.93	9.07	27.35	8.20
	-8.5	-9.1	33.27	9.61	33.27	9.81	33.27	10.02	31.95	9.58	30.63	9.14	27.99	8.26
	-7	-7.6	34.40	9.71	34.40	9.92	34.40	10.13	33.04	9.68	31.67	9.24	28.94	8.35
	-5	-5.6	35.92	9.86	35.92	10.07	35.92	10.28	34.49	9.83	33.06	9.38	30.21	8.48
	-3	-3.7	37.43	10.00	37.43	10.22	37.43	10.43	35.94	9.97	34.46	9.51	31.49	8.60
	0	-0.7	39.70	10.22	39.70	10.44	39.70	10.65	38.13	10.19	36.55	9.72	33.40	8.79
	3	2.2	41.97	10.43	41.97	10.66	41.97	10.88	40.31	10.40	38.64	9.93	35.31	8.97
	5	4.1	43.49	10.58	43.49	10.80	43.49	11.03	41.76	10.55	40.03	10.06	36.58	9.10
	7	6	45.00	10.72	45.00	10.95	45.00	11.18	43.21	10.69	41.43	10.20	37.86	9.22
	9	7.9	45.00	10.36	45.00	10.58	45.00	10.80	43.21	10.33	41.43	9.86	37.86	8.91
	11	9.8	45.00	10.00	45.00	10.22	45.00	10.43	43.21	9.97	41.43	9.52	37.86	8.60
	13	11.8	45.00	9.64	45.00	9.85	45.00	10.05	43.21	9.61	41.43	9.17	37.86	8.29
15	13.7	45.00	9.28	45.00	9.48	45.00	9.68	43.21	9.25	41.43	8.83	37.86	7.98	
90%	-14.7	-15	25.71	8.12	25.71	8.29	25.71	8.47	24.69	8.10	23.67	7.73	21.63	6.98
	-12.6	-13	27.15	8.26	27.15	8.43	27.15	8.61	26.07	8.23	24.99	7.85	22.84	7.10
	-10.5	-11	28.58	8.39	28.58	8.57	28.58	8.75	27.44	8.36	26.31	7.98	24.04	7.21
	-9.5	-10	29.26	8.45	29.26	8.63	29.26	8.81	28.10	8.43	26.94	8.04	24.61	7.27
	-8.5	-9.1	29.94	8.52	29.94	8.70	29.94	8.88	28.75	8.49	27.56	8.10	25.19	7.32
	-7	-7.6	30.96	8.61	30.96	8.80	30.96	8.98	29.73	8.59	28.50	8.19	26.05	7.41
	-5	-5.6	32.32	8.74	32.32	8.93	32.32	9.11	31.04	8.71	29.76	8.32	27.19	7.52
	-3	-3.7	33.69	8.87	33.69	9.06	33.69	9.25	32.35	8.84	31.01	8.44	28.34	7.63
	0	-0.7	35.73	9.06	35.73	9.25	35.73	9.45	34.31	9.03	32.89	8.62	30.06	7.79
	3	2.2	37.77	9.25	37.77	9.45	37.77	9.65	36.28	9.22	34.78	8.80	31.78	7.96
	5	4.1	39.14	9.38	39.14	9.58	39.14	9.78	37.58	9.35	36.03	8.92	32.93	8.07
	7	6	40.50	9.51	40.50	9.71	40.50	9.91	38.89	9.48	37.29	9.04	34.07	8.18
	9	7.9	40.50	9.19	40.50	9.38	40.50	9.58	38.89	9.16	37.29	8.74	34.07	7.90
	11	9.8	40.50	8.87	40.50	9.06	40.50	9.25	38.89	8.84	37.29	8.44	34.07	7.63
	13	11.8	40.50	8.55	40.50	8.73	40.50	8.91	38.89	8.52	37.29	8.13	34.07	7.35
15	13.7	40.50	8.23	40.50	8.41	40.50	8.58	38.89	8.21	37.29	7.83	34.07	7.08	

Combination (Capacity index)	Outdoor air temp.		Indoor temperature(°C DB)											
			16		18		20		21		22		24	
	°C DB	°C WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
80%	-14.7	-15	22.86	7.13	22.86	7.28	22.86	7.44	21.95	7.11	21.04	6.78	19.23	6.13
	-12.6	-13	24.13	7.25	24.13	7.40	24.13	7.56	23.17	7.23	22.21	6.90	20.30	6.23
	-10.5	-11	25.40	7.37	25.40	7.52	25.40	7.68	24.39	7.34	23.38	7.01	21.37	6.33
	-9.5	-10	26.01	7.42	26.01	7.58	26.01	7.74	24.97	7.40	23.94	7.06	21.88	6.38
	-8.5	-9.1	26.61	7.48	26.61	7.64	26.61	7.80	25.56	7.46	24.50	7.11	22.39	6.43
	-7	-7.6	27.52	7.56	27.52	7.72	27.52	7.89	26.43	7.54	25.34	7.19	23.15	6.50
	-5	-5.6	28.73	7.68	28.73	7.84	28.73	8.00	27.59	7.65	26.45	7.30	24.17	6.60
	-3	-3.7	29.94	7.79	29.94	7.95	29.94	8.12	28.76	7.76	27.57	7.41	25.19	6.70
	0	-0.7	31.76	7.96	31.76	8.13	31.76	8.30	30.50	7.93	29.24	7.57	26.72	6.84
	3	2.2	33.58	8.12	33.58	8.30	33.58	8.47	32.25	8.10	30.91	7.73	28.25	6.99
	5	4.1	34.79	8.24	34.79	8.41	34.79	8.59	33.41	8.21	32.03	7.84	29.27	7.08
	7	6	36.00	8.35	36.00	8.53	36.00	8.70	34.57	8.32	33.14	7.94	30.29	7.18
	9	7.9	36.00	8.07	36.00	8.24	36.00	8.41	34.57	8.04	33.14	7.68	30.29	6.94
	11	9.8	36.00	7.79	36.00	7.95	36.00	8.12	34.57	7.76	33.14	7.41	30.29	6.70
	13	11.8	36.00	7.51	36.00	7.67	36.00	7.83	34.57	7.48	33.14	7.14	30.29	6.46
	15	13.7	36.00	7.23	36.00	7.38	36.00	7.54	34.57	7.21	33.14	6.88	30.29	6.21
70%	-14.7	-15	20.00	6.14	20.00	6.27	20.00	6.40	19.21	6.12	18.41	5.84	16.83	5.28
	-12.6	-13	21.11	6.24	21.11	6.38	21.11	6.51	20.28	6.22	19.44	5.94	17.76	5.37
	-10.5	-11	22.23	6.34	22.23	6.48	22.23	6.61	21.34	6.32	20.46	6.03	18.70	5.46
	-9.5	-10	22.76	6.39	22.76	6.53	22.76	6.66	21.85	6.37	20.95	6.08	19.14	5.50
	-8.5	-9.1	23.29	6.44	23.29	6.58	23.29	6.72	22.36	6.42	21.44	6.13	19.59	5.54
	-7	-7.6	24.08	6.51	24.08	6.65	24.08	6.79	23.13	6.49	22.17	6.20	20.26	5.60
	-5	-5.6	25.14	6.61	25.14	6.75	25.14	6.89	24.14	6.59	23.15	6.29	21.15	5.68
	-3	-3.7	26.20	6.71	26.20	6.85	26.20	6.99	25.16	6.69	24.12	6.38	22.04	5.77
	0	-0.7	27.79	6.85	27.79	7.00	27.79	7.14	26.69	6.83	25.58	6.52	23.38	5.89
	3	2.2	29.38	7.00	29.38	7.15	29.38	7.29	28.21	6.98	27.05	6.66	24.72	6.02
	5	4.1	30.44	7.09	30.44	7.24	30.44	7.40	29.23	7.07	28.02	6.75	25.61	6.10
	7	6	31.50	7.19	31.50	7.34	31.50	7.50	30.25	7.17	29.00	6.84	26.50	6.18
	9	7.9	31.50	6.95	31.50	7.10	31.50	7.24	30.25	6.93	29.00	6.61	26.50	5.97
	11	9.8	31.50	6.71	31.50	6.85	31.50	6.99	30.25	6.69	29.00	6.38	26.50	5.77
	13	11.8	31.50	6.47	31.50	6.60	31.50	6.74	30.25	6.45	29.00	6.15	26.50	5.56
	15	13.7	31.50	6.22	31.50	6.36	31.50	6.49	30.25	6.20	29.00	5.92	26.50	5.35
60%	-14.7	-15	17.14	5.15	17.14	5.26	17.14	5.37	16.46	5.14	15.78	4.90	14.42	4.43
	-12.6	-13	18.10	5.24	18.10	5.35	18.10	5.46	17.38	5.22	16.66	4.98	15.22	4.50
	-10.5	-11	19.05	5.32	19.05	5.43	19.05	5.55	18.29	5.31	17.54	5.06	16.03	4.58
	-9.5	-10	19.50	5.36	19.50	5.48	19.50	5.59	18.73	5.35	17.96	5.10	16.41	4.61
	-8.5	-9.1	19.96	5.40	19.96	5.52	19.96	5.63	19.17	5.39	18.38	5.14	16.79	4.65
	-7	-7.6	20.64	5.46	20.64	5.58	20.64	5.70	19.82	5.45	19.00	5.20	17.36	4.70
	-5	-5.6	21.55	5.54	21.55	5.66	21.55	5.78	20.69	5.53	19.84	5.27	18.13	4.77
	-3	-3.7	22.46	5.63	22.46	5.75	22.46	5.87	21.57	5.61	20.68	5.35	18.89	4.84
	0	-0.7	23.82	5.75	23.82	5.87	23.82	5.99	22.88	5.73	21.93	5.47	20.04	4.94

Combination (Capacity index)	Outdoor air temp.		Indoor temperature(°C DB)											
			16		18		20		21		22		24	
	°C DB	°C WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	3	2.2	25.18	5.87	25.18	5.99	25.18	6.12	24.18	5.85	23.18	5.58	21.19	5.05
	5	4.1	26.09	5.95	26.09	6.08	26.09	6.20	25.06	5.93	24.02	5.66	21.95	5.12
	7	6	27.00	6.03	27.00	6.16	27.00	6.29	25.93	6.01	24.86	5.74	22.71	5.19
	9	7.9	27.00	5.83	27.00	5.95	27.00	6.08	25.93	5.81	24.86	5.54	22.71	5.01
	11	9.8	27.00	5.63	27.00	5.75	27.00	5.87	25.93	5.61	24.86	5.35	22.71	4.84
	13	11.8	27.00	5.42	27.00	5.54	27.00	5.65	25.93	5.41	24.86	5.16	22.71	4.66
	15	13.7	27.00	5.22	27.00	5.33	27.00	5.44	25.93	5.20	24.86	4.97	22.71	4.49
50%	-14.7	-15	14.29	4.16	14.29	4.25	14.29	4.34	13.72	4.15	13.15	3.96	12.02	3.58
	-12.6	-13	15.08	4.23	15.08	4.32	15.08	4.41	14.48	4.22	13.88	4.02	12.69	3.64
	-10.5	-11	15.88	4.30	15.88	4.39	15.88	4.48	15.25	4.29	14.62	4.09	13.36	3.70
	-9.5	-10	16.25	4.33	16.25	4.42	16.25	4.52	15.61	4.32	14.96	4.12	13.67	3.72
	-8.5	-9.1	16.63	4.36	16.63	4.46	16.63	4.55	15.97	4.35	15.31	4.15	13.99	3.75
	-7	-7.6	17.20	4.41	17.20	4.51	17.20	4.60	16.52	4.40	15.84	4.20	14.47	3.80
	-5	-5.6	17.96	4.48	17.96	4.57	17.96	4.67	17.24	4.47	16.53	4.26	15.11	3.85
	-3	-3.7	18.71	4.54	18.71	4.64	18.71	4.74	17.97	4.53	17.23	4.32	15.74	3.91
	0	-0.7	19.85	4.64	19.85	4.74	19.85	4.84	19.06	4.63	18.27	4.42	16.70	3.99
	3	2.2	20.99	4.74	20.99	4.84	20.99	4.94	20.15	4.73	19.32	4.51	17.65	4.08
	5	4.1	21.74	4.81	21.74	4.91	21.74	5.01	20.88	4.79	20.02	4.57	18.29	4.13
	7	6	22.50	4.87	22.50	4.98	22.50	5.08	21.61	4.86	20.71	4.63	18.93	4.19
	9	7.9	22.50	4.71	22.50	4.81	22.50	4.91	21.61	4.69	20.71	4.48	18.93	4.05
	11	9.8	22.50	4.54	22.50	4.64	22.50	4.74	21.61	4.53	20.71	4.32	18.93	3.91
	13	11.8	22.50	4.38	22.50	4.47	22.50	4.57	21.61	4.37	20.71	4.17	18.93	3.77
15	13.7	22.50	4.22	22.50	4.31	22.50	4.40	21.61	4.20	20.71	4.01	18.93	3.63	

## MDVi-450(16)W/DSN1

TC: total capacity PI: power input

Combination (Capacity index)	Outdoor air temp.		Indoor temperature(°C DB)											
			16		18		20		21		22		24	
	°C DB	°C WB	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
130%	-14.7	-15	34.92	11.05	34.92	11.28	34.92	11.52	33.54	11.01	32.15	10.51	29.38	9.50
	-12.6	-13	36.86	11.23	36.86	11.47	36.86	11.71	35.40	11.20	33.94	10.68	31.01	9.66
	-10.5	-11	38.81	11.41	38.81	11.66	38.81	11.90	37.27	11.38	35.73	10.86	32.65	9.81
	-9.5	-10	39.73	11.50	39.73	11.75	39.73	11.99	38.16	11.47	36.58	10.94	33.43	9.89
	-8.5	-9.1	40.66	11.59	40.66	11.83	40.66	12.08	39.04	11.55	37.43	11.02	34.20	9.96
	-7	-7.6	42.05	11.72	42.05	11.97	42.05	12.22	40.38	11.68	38.71	11.15	35.37	10.08
	-5	-5.6	43.90	11.89	43.90	12.15	43.90	12.40	42.15	11.86	40.41	11.31	36.93	10.23
	-3	-3.7	45.75	12.07	45.75	12.32	45.75	12.58	43.93	12.03	42.12	11.48	38.49	10.38
	0	-0.7	48.52	12.33	48.52	12.59	48.52	12.85	46.60	12.29	44.67	11.73	40.82	10.60
	3	2.2	51.30	12.59	51.30	12.86	51.30	13.12	49.26	12.55	47.23	11.97	43.16	10.82
	5	4.1	53.15	12.76	53.15	13.03	53.15	13.31	51.04	12.72	48.93	12.14	44.71	10.97
	7	6	55.00	12.93	55.00	13.21	55.00	13.49	52.82	12.90	50.63	12.30	46.27	11.12
	9	7.9	55.00	12.50	55.00	12.77	55.00	13.03	52.82	12.46	50.63	11.89	46.27	10.75
	11	9.8	55.00	12.07	55.00	12.32	55.00	12.58	52.82	12.03	50.63	11.48	46.27	10.38
	13	11.8	55.00	11.63	55.00	11.88	55.00	12.13	52.82	11.60	50.63	11.07	46.27	10.00
15	13.7	55.00	11.20	55.00	11.44	55.00	11.67	52.82	11.16	50.63	10.65	46.27	9.63	
120%	-14.7	-15	34.92	11.37	34.92	11.62	34.92	11.86	33.54	11.34	32.15	10.82	29.38	9.78
	-12.6	-13	36.86	11.56	36.86	11.81	36.86	12.05	35.40	11.53	33.94	11.00	31.01	9.94
	-10.5	-11	38.81	11.75	38.81	12.00	38.81	12.25	37.27	11.71	35.73	11.18	32.65	10.10
	-9.5	-10	39.73	11.84	39.73	12.09	39.73	12.34	38.16	11.80	36.58	11.26	33.43	10.18
	-8.5	-9.1	40.66	11.93	40.66	12.18	40.66	12.44	39.04	11.89	37.43	11.35	34.20	10.26
	-7	-7.6	42.05	12.06	42.05	12.32	42.05	12.58	40.38	12.03	38.71	11.47	35.37	10.37
	-5	-5.6	43.90	12.24	43.90	12.50	43.90	12.76	42.15	12.20	40.41	11.65	36.93	10.53
	-3	-3.7	45.75	12.42	45.75	12.69	45.75	12.95	43.93	12.38	42.12	11.82	38.49	10.68
	0	-0.7	48.52	12.69	48.52	12.96	48.52	13.23	46.60	12.65	44.67	12.07	40.82	10.91
	3	2.2	51.30	12.96	51.30	13.23	51.30	13.51	49.26	12.92	47.23	12.33	43.16	11.14
	5	4.1	53.15	13.14	53.15	13.42	53.15	13.70	51.04	13.10	48.93	12.50	44.71	11.30
	7	6	55.00	13.31	55.00	13.60	55.00	13.88	52.82	13.27	50.63	12.67	46.27	11.45
	9	7.9	55.00	12.87	55.00	13.14	55.00	13.42	52.82	12.83	50.63	12.24	46.27	11.07
	11	9.8	55.00	12.42	55.00	12.69	55.00	12.95	52.82	12.38	50.63	11.82	46.27	10.68
	13	11.8	55.00	11.97	55.00	12.23	55.00	12.48	52.82	11.94	50.63	11.39	46.27	10.30
15	13.7	55.00	11.53	55.00	11.77	55.00	12.02	52.82	11.49	50.63	10.97	46.27	9.91	
110%	-14.7	-15	34.92	11.70	34.92	11.95	34.92	12.20	33.54	11.66	32.15	11.13	29.38	10.06
	-12.6	-13	36.86	11.89	36.86	12.15	36.86	12.40	35.40	11.86	33.94	11.31	31.01	10.23
	-10.5	-11	38.81	12.08	38.81	12.34	38.81	12.60	37.27	12.05	35.73	11.50	32.65	10.39
	-9.5	-10	39.73	12.18	39.73	12.44	39.73	12.70	38.16	12.14	36.58	11.58	33.43	10.47
	-8.5	-9.1	40.66	12.27	40.66	12.53	40.66	12.79	39.04	12.23	37.43	11.67	34.20	10.55
	-7	-7.6	42.05	12.41	42.05	12.67	42.05	12.94	40.38	12.37	38.71	11.80	35.37	10.67
	-5	-5.6	43.90	12.59	43.90	12.86	43.90	13.13	42.15	12.55	40.41	11.98	36.93	10.83

Combination (Capacity index)	Outdoor air temp.		Indoor temperature(°C DB)											
			16		18		20		21		22		24	
	°C DB	°C WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	-3	-3.7	45.75	12.77	45.75	13.05	45.75	13.32	43.93	12.74	42.12	12.15	38.49	10.99
	0	-0.7	48.52	13.05	48.52	13.33	48.52	13.61	46.60	13.01	44.67	12.42	40.82	11.22
	3	2.2	51.30	13.33	51.30	13.61	51.30	13.90	49.26	13.29	47.23	12.68	43.16	11.46
	5	4.1	53.15	13.51	53.15	13.80	53.15	14.09	51.04	13.47	48.93	12.85	44.71	11.62
	7	6	55.00	13.70	55.00	13.99	55.00	14.28	52.82	13.65	50.63	13.03	46.27	11.78
	9	7.9	55.00	13.24	55.00	13.52	55.00	13.80	52.82	13.20	50.63	12.59	46.27	11.38
	11	9.8	55.00	12.78	55.00	13.05	55.00	13.32	52.82	12.74	50.63	12.15	46.27	10.99
	13	11.8	55.00	12.32	55.00	12.58	55.00	12.84	52.82	12.28	50.63	11.72	46.27	10.59
	15	13.7	55.00	11.86	55.00	12.11	55.00	12.36	52.82	11.82	50.63	11.28	46.27	10.20
100%	-14.7	-15	31.75	10.32	31.75	10.54	31.75	10.76	30.49	10.29	29.23	9.82	26.71	8.88
	-12.6	-13	33.51	10.49	33.51	10.72	33.51	10.94	32.18	10.46	30.85	9.98	28.19	9.02
	-10.5	-11	35.28	10.66	35.28	10.89	35.28	11.12	33.88	10.63	32.48	10.14	29.68	9.17
	-9.5	-10	36.12	10.74	36.12	10.97	36.12	11.20	34.69	10.71	33.25	10.22	30.39	9.24
	-8.5	-9.1	36.96	10.83	36.96	11.06	36.96	11.29	35.49	10.79	34.03	10.30	31.09	9.31
	-7	-7.6	38.22	10.95	38.22	11.18	38.22	11.41	36.71	10.91	35.19	10.41	32.16	9.41
	-5	-5.6	39.91	11.11	39.91	11.35	39.91	11.58	38.32	11.08	36.74	10.57	33.57	9.55
	-3	-3.7	41.59	11.27	41.59	11.51	41.59	11.75	39.94	11.24	38.29	10.72	34.99	9.69
	0	-0.7	44.11	11.52	44.11	11.76	44.11	12.01	42.36	11.48	40.61	10.96	37.11	9.90
	3	2.2	46.64	11.76	46.64	12.01	46.64	12.26	44.78	11.72	42.93	11.19	39.23	10.11
	5	4.1	48.32	11.92	48.32	12.18	48.32	12.43	46.40	11.89	44.48	11.34	40.65	10.25
	7	6	50.00	12.08	50.00	12.34	50.00	12.60	48.02	12.05	46.03	11.50	42.06	10.39
	9	7.9	50.00	11.68	50.00	11.93	50.00	12.18	48.02	11.64	46.03	11.11	42.06	10.04
	11	9.8	50.00	11.27	50.00	11.51	50.00	11.75	48.02	11.24	46.03	10.72	42.06	9.69
	13	11.8	50.00	10.87	50.00	11.10	50.00	11.33	48.02	10.83	46.03	10.34	42.06	9.35
15	13.7	50.00	10.46	50.00	10.68	50.00	10.91	48.02	10.43	46.03	9.95	42.06	9.00	
90%	-14.7	-15	28.57	9.15	28.57	9.35	28.57	9.54	27.44	9.12	26.30	8.71	24.04	7.87
	-12.6	-13	30.16	9.30	30.16	9.50	30.16	9.70	28.96	9.28	27.77	8.85	25.37	8.00
	-10.5	-11	31.75	9.45	31.75	9.66	31.75	9.86	30.49	9.43	29.23	8.99	26.71	8.13
	-9.5	-10	32.51	9.53	32.51	9.73	32.51	9.93	31.22	9.50	29.93	9.06	27.35	8.19
	-8.5	-9.1	33.27	9.60	33.27	9.80	33.27	10.01	31.95	9.57	30.63	9.13	27.99	8.25
	-7	-7.6	34.40	9.71	34.40	9.91	34.40	10.12	33.04	9.68	31.67	9.23	28.94	8.35
	-5	-5.6	35.92	9.85	35.92	10.06	35.92	10.27	34.49	9.82	33.06	9.37	30.21	8.47
	-3	-3.7	37.43	9.99	37.43	10.21	37.43	10.42	35.94	9.96	34.46	9.51	31.49	8.60
	0	-0.7	39.70	10.21	39.70	10.43	39.70	10.65	38.13	10.18	36.55	9.71	33.40	8.78
	3	2.2	41.97	10.43	41.97	10.65	41.97	10.87	40.31	10.40	38.64	9.92	35.31	8.97
	5	4.1	43.49	10.57	43.49	10.80	43.49	11.02	41.76	10.54	40.03	10.06	36.58	9.09
	7	6	45.00	10.71	45.00	10.94	45.00	11.17	43.21	10.68	41.43	10.19	37.86	9.21
	9	7.9	45.00	10.36	45.00	10.58	45.00	10.80	43.21	10.32	41.43	9.85	37.86	8.90
	11	9.8	45.00	10.00	45.00	10.21	45.00	10.42	43.21	9.97	41.43	9.51	37.86	8.60
	13	11.8	45.00	9.64	45.00	9.84	45.00	10.05	43.21	9.61	41.43	9.17	37.86	8.29
15	13.7	45.00	9.28	45.00	9.47	45.00	9.67	43.21	9.25	41.43	8.82	37.86	7.98	

Combination (Capacity index)	Outdoor air temp.		Indoor temperature(°C DB)											
			16		18		20		21		22		24	
	°C DB	°C WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
80%	-14.7	-15	25.40	8.04	25.40	8.21	25.40	8.38	24.39	8.01	23.38	7.65	21.37	6.91
	-12.6	-13	26.81	8.17	26.81	8.34	26.81	8.52	25.75	8.14	24.68	7.77	22.55	7.03
	-10.5	-11	28.22	8.30	28.22	8.48	28.22	8.66	27.10	8.28	25.98	7.90	23.74	7.14
	-9.5	-10	28.90	8.37	28.90	8.54	28.90	8.72	27.75	8.34	26.60	7.96	24.31	7.19
	-8.5	-9.1	29.57	8.43	29.57	8.61	29.57	8.79	28.40	8.40	27.22	8.02	24.88	7.25
	-7	-7.6	30.58	8.52	30.58	8.71	30.58	8.89	29.37	8.50	28.15	8.11	25.72	7.33
	-5	-5.6	31.92	8.65	31.92	8.83	31.92	9.02	30.66	8.62	29.39	8.23	26.86	7.44
	-3	-3.7	33.27	8.78	33.27	8.96	33.27	9.15	31.95	8.75	30.63	8.35	27.99	7.55
	0	-0.7	35.29	8.97	35.29	9.16	35.29	9.35	33.89	8.94	32.49	8.53	29.69	7.71
	3	2.2	37.31	9.16	37.31	9.35	37.31	9.55	35.83	9.13	34.35	8.71	31.39	7.87
	5	4.1	38.65	9.28	38.65	9.48	38.65	9.68	37.12	9.25	35.59	8.83	32.52	7.98
	7	6	40.00	9.41	40.00	9.61	40.00	9.81	38.41	9.38	36.83	8.95	33.65	8.09
	9	7.9	40.00	9.09	40.00	9.29	40.00	9.48	38.41	9.07	36.83	8.65	33.65	7.82
	11	9.8	40.00	8.78	40.00	8.96	40.00	9.15	38.41	8.75	36.83	8.35	33.65	7.55
	13	11.8	40.00	8.46	40.00	8.64	40.00	8.82	38.41	8.44	36.83	8.05	33.65	7.28
	15	13.7	40.00	8.14	40.00	8.32	40.00	8.49	38.41	8.12	36.83	7.75	33.65	7.00
70%	-14.7	-15	22.22	6.92	22.22	7.07	22.22	7.22	21.34	6.90	20.46	6.58	18.69	5.95
	-12.6	-13	23.46	7.04	23.46	7.19	23.46	7.34	22.53	7.01	21.60	6.69	19.74	6.05
	-10.5	-11	24.70	7.15	24.70	7.30	24.70	7.45	23.72	7.13	22.74	6.80	20.78	6.15
	-9.5	-10	25.28	7.20	25.28	7.36	25.28	7.51	24.28	7.18	23.28	6.85	21.27	6.20
	-8.5	-9.1	25.87	7.26	25.87	7.41	25.87	7.57	24.85	7.24	23.82	6.91	21.77	6.24
	-7	-7.6	26.76	7.34	26.76	7.50	26.76	7.65	25.69	7.32	24.63	6.98	22.51	6.31
	-5	-5.6	27.93	7.45	27.93	7.61	27.93	7.77	26.83	7.43	25.72	7.09	23.50	6.41
	-3	-3.7	29.11	7.56	29.11	7.72	29.11	7.88	27.96	7.54	26.80	7.19	24.49	6.50
	0	-0.7	30.88	7.72	30.88	7.89	30.88	8.05	29.65	7.70	28.43	7.35	25.98	6.64
	3	2.2	32.64	7.88	32.64	8.05	32.64	8.22	31.35	7.86	30.05	7.50	27.46	6.78
	5	4.1	33.82	7.99	33.82	8.16	33.82	8.33	32.48	7.97	31.14	7.60	28.45	6.87
	7	6	35.00	8.10	35.00	8.28	35.00	8.45	33.61	8.08	32.22	7.71	29.44	6.97
	9	7.9	35.00	7.83	35.00	8.00	35.00	8.16	33.61	7.81	32.22	7.45	29.44	6.73
	11	9.8	35.00	7.56	35.00	7.72	35.00	7.88	33.61	7.54	32.22	7.19	29.44	6.50
	13	11.8	35.00	7.29	35.00	7.44	35.00	7.60	33.61	7.26	32.22	6.93	29.44	6.27
	15	13.7	35.00	7.01	35.00	7.16	35.00	7.31	33.61	6.99	32.22	6.67	29.44	6.03
60%	-14.7	-15	19.05	5.81	19.05	5.93	19.05	6.05	18.29	5.79	17.54	5.52	16.02	4.99
	-12.6	-13	20.11	5.90	20.11	6.03	20.11	6.15	19.31	5.88	18.51	5.61	16.92	5.07
	-10.5	-11	21.17	6.00	21.17	6.12	21.17	6.25	20.33	5.98	19.49	5.71	17.81	5.16
	-9.5	-10	21.67	6.04	21.67	6.17	21.67	6.30	20.81	6.02	19.95	5.75	18.23	5.20
	-8.5	-9.1	22.18	6.09	22.18	6.22	22.18	6.35	21.30	6.07	20.42	5.79	18.66	5.24
	-7	-7.6	22.93	6.16	22.93	6.29	22.93	6.42	22.02	6.14	21.11	5.86	19.29	5.29
	-5	-5.6	23.94	6.25	23.94	6.38	23.94	6.51	22.99	6.23	22.04	5.94	20.14	5.37
	-3	-3.7	24.95	6.34	24.95	6.47	24.95	6.61	23.96	6.32	22.97	6.03	20.99	5.45
	0	-0.7	26.47	6.48	26.47	6.61	26.47	6.75	25.42	6.46	24.37	6.16	22.27	5.57

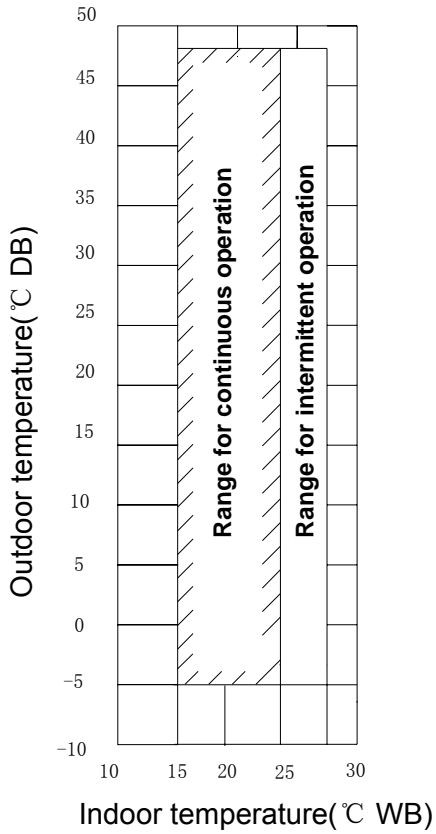
Combination (Capacity index)	Outdoor air temp.		Indoor temperature(°C DB)											
			16		18		20		21		22		24	
	°C DB	°C WB	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
	3	2.2	27.98	6.61	27.98	6.75	27.98	6.90	26.87	6.59	25.76	6.29	23.54	5.69
	5	4.1	28.99	6.70	28.99	6.85	28.99	6.99	27.84	6.68	26.69	6.38	24.39	5.77
	7	6	30.00	6.80	30.00	6.94	30.00	7.09	28.81	6.78	27.62	6.47	25.24	5.84
	9	7.9	30.00	6.57	30.00	6.71	30.00	6.85	28.81	6.55	27.62	6.25	25.24	5.65
	11	9.8	30.00	6.34	30.00	6.48	30.00	6.61	28.81	6.32	27.62	6.03	25.24	5.45
	13	11.8	30.00	6.11	30.00	6.24	30.00	6.37	28.81	6.09	27.62	5.81	25.24	5.26
	15	13.7	30.00	5.88	30.00	6.01	30.00	6.13	28.81	5.87	27.62	5.60	25.24	5.06
50%	-14.7	-15	15.87	4.69	15.87	4.79	15.87	4.89	15.24	4.68	14.61	4.46	13.35	4.03
	-12.6	-13	16.76	4.77	16.76	4.87	16.76	4.97	16.09	4.75	15.43	4.53	14.10	4.10
	-10.5	-11	17.64	4.84	17.64	4.95	17.64	5.05	16.94	4.83	16.24	4.61	14.84	4.17
	-9.5	-10	18.06	4.88	18.06	4.99	18.06	5.09	17.34	4.87	16.63	4.64	15.19	4.20
	-8.5	-9.1	18.48	4.92	18.48	5.02	18.48	5.13	17.75	4.90	17.01	4.68	15.55	4.23
	-7	-7.6	19.11	4.97	19.11	5.08	19.11	5.19	18.35	4.96	17.59	4.73	16.08	4.28
	-5	-5.6	19.95	5.05	19.95	5.16	19.95	5.26	19.16	5.03	18.37	4.80	16.79	4.34
	-3	-3.7	20.79	5.12	20.79	5.23	20.79	5.34	19.97	5.11	19.14	4.87	17.49	4.40
	0	-0.7	22.06	5.23	22.06	5.34	22.06	5.46	21.18	5.22	20.31	4.98	18.55	4.50
	3	2.2	23.32	5.34	23.32	5.46	23.32	5.57	22.39	5.33	21.47	5.08	19.62	4.59
	5	4.1	24.16	5.42	24.16	5.53	24.16	5.65	23.20	5.40	22.24	5.15	20.32	4.66
	7	6	25.00	5.49	25.00	5.61	25.00	5.72	24.01	5.47	23.02	5.22	21.03	4.72
	9	7.9	25.00	5.31	25.00	5.42	25.00	5.53	24.01	5.29	23.02	5.05	21.03	4.56
	11	9.8	25.00	5.12	25.00	5.23	25.00	5.34	24.01	5.11	23.02	4.87	21.03	4.40
13	11.8	25.00	4.94	25.00	5.04	25.00	5.15	24.01	4.92	23.02	4.70	21.03	4.25	
15	13.7	25.00	4.75	25.00	4.85	25.00	4.96	24.01	4.74	23.02	4.52	21.03	4.09	



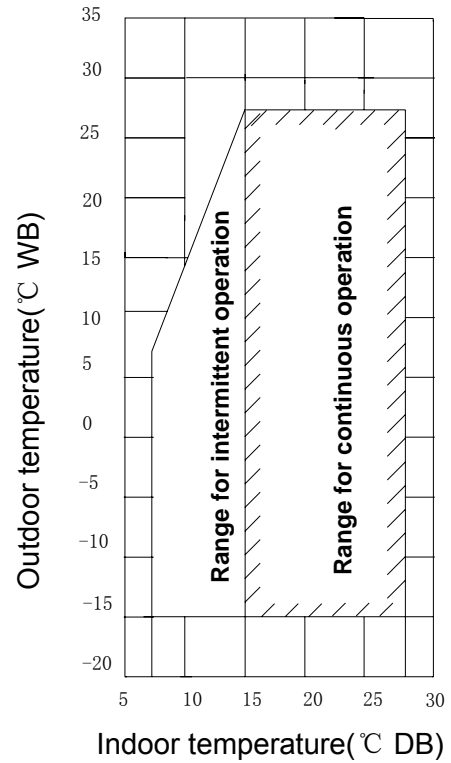
### 9. Operation Limits

Model \ Item	Cooling mode			Heating mode	
	Outdoor temperature	Indoor temperature	Room relative humidity	Outdoor temperature	Indoor temperature
All model	-5°C~48°C	≥17°C	Below 80%	-15°C~27°C	≤30°C

**Cooling**



**Heating**

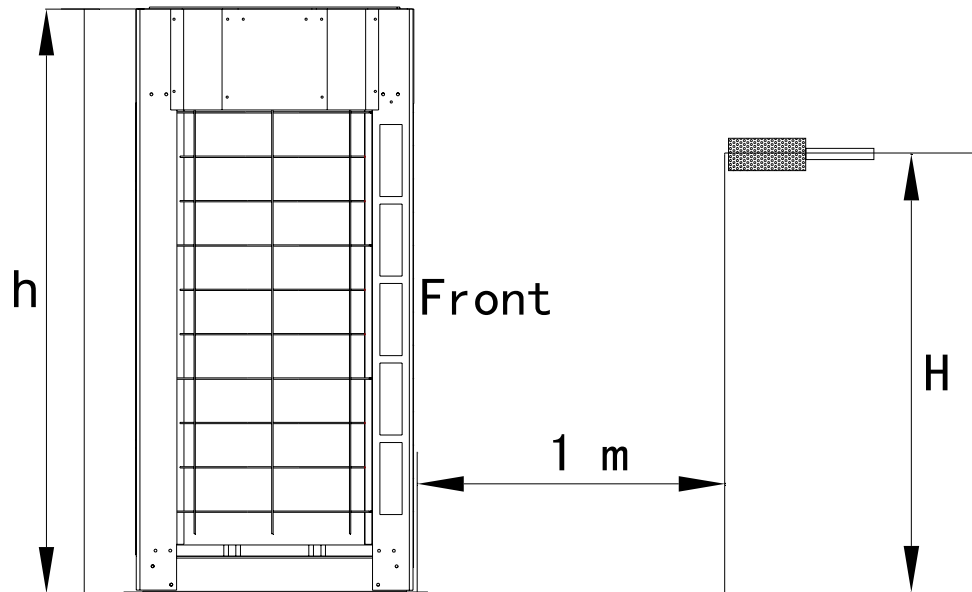


**Notes:** These figures assume the following operation conditions (Indoor and outdoor units):

1. Equivalent pipe length: 10m
2. Height difference: 0m

# 10. Sound Levels

## 10.1 Standard of testing



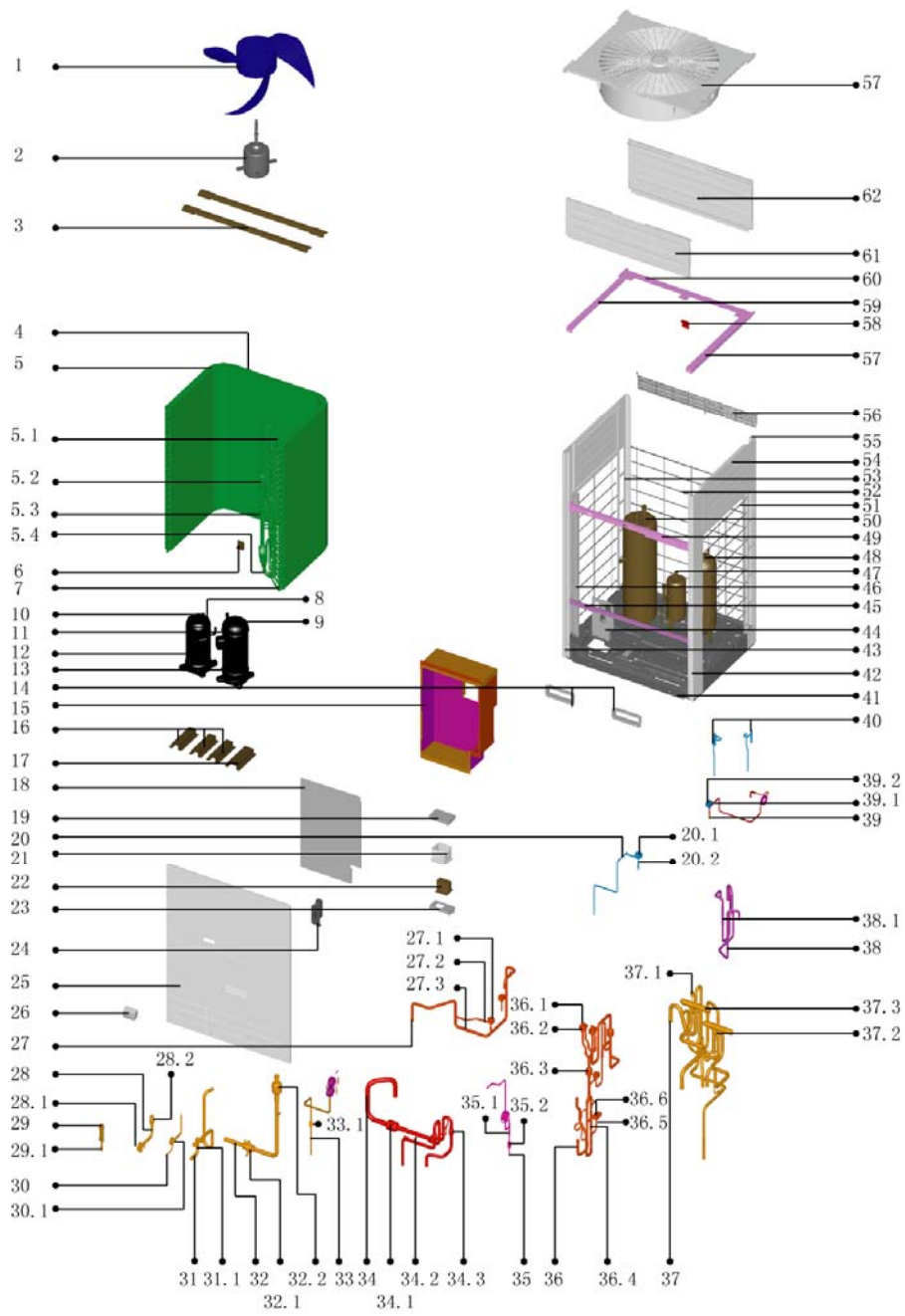
**Note:**  $H = (h+1) / 2$

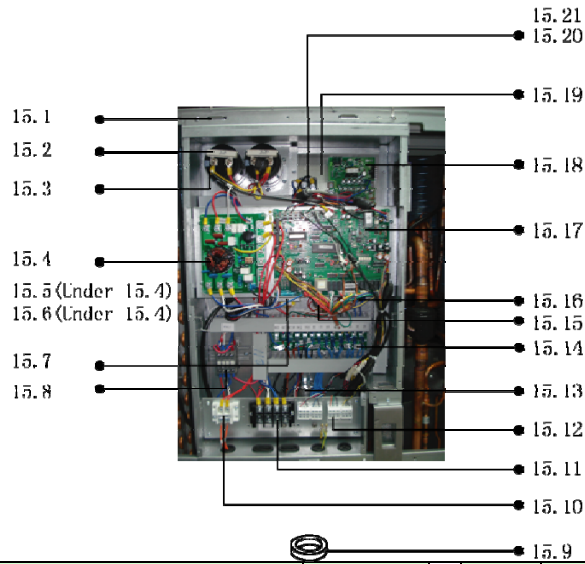
## 10.2 Test value

Unit Number	Model	Noise level (dB(A))
1	MDVi-252(8)W/DSN1	57
2	MDVi-280(10)W/DSN1	57
3	MDVi-335(12)W/DSN1	58
4	MDVi-400(14)W/DSN1	60
5	MDVi-450(16)W/DSN1	60

# 11. Exploded View

## MDVi-252(8)W/DSN1

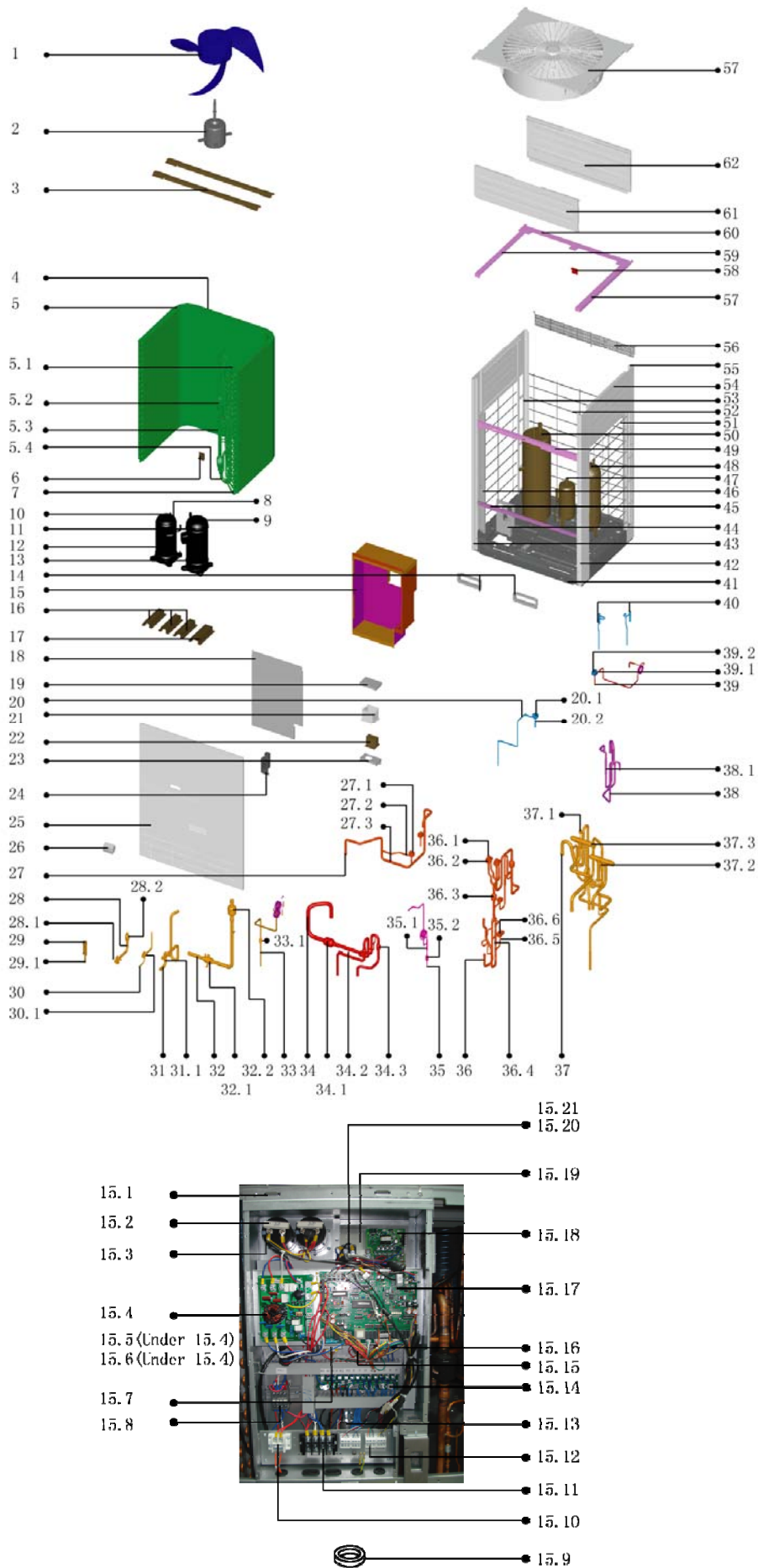




No.	Part Name	Quantity	No.	Part Name	Quantity
1	Axial flow fan	1	28.2	Strainer	1
2	Motor	1	29	Pipe joint subassembly	1
3	Motor bracket	2	29.1	Pipe joint	1
4	Outdoor temp sensor assembly	1	30	Oil balance valve ass'y	1
5	Condenser coil assembly	1	30.1	Low pressure valve	1
5.1	Input pipe ass'y	1	31	Gas balance valve ass'y	1
5.2	Output pipe ass'y	1	31.1	Low pressure valve	1
5.3	Output pipe ass'y	1	32	Ball valve module	1
5.4	Input pipe ass'y	1	32.1	Ball valve	1
6	Fixing board ass'y	1	32.2	Strainer	1
7	Outdoor evaporator temp sensor assembly	1	33	Oil return capillary pipe assy	1
8	Discharge temp sensor assembly	1	33.1	Strainer	1
9	Discharge temp sensor assembly	1	34	Suction pipe subassembly	1
10	Compressor	1	34.1	Strainer	1
11	Compressor	1	34.2	Pressure controller	1
12	Electric heater for compressor	1	34.3	Strainer	2
13	Electric heater for compressor	1	35	Oil balance capillary pipe assy	1
14	Board	4	35.1	One way valve	1
15	Electric parts assy subassembly	4	35.2	Strainer	1
15.1	E-box	1	36	Electronic expansion valve ass'y	1
15.2	Resistor	2	36.1	Electronic expansion valve	2
15.3	Aluminum electro analysis capacitor	2	36.2	EEV solenoid	2
15.4	Filter board ass'y	1	36.3	Strainer	2
15.5	Resistance	2	36.4	One way valve	3
15.6	Compressor capacitor	1	36.5	Solenoid valve	2
15.7	Transformer	1	36.6	Solenoid valve winding	2
15.8	Contactora	2	37	4-way valve subassembly	1
15.9	Magnetism loop	1	37.1	Pressure controller	1
15.10	Wire joint	1	37.2	4-Ways valve solenoid	2
15.11	Wire joint, 4p	1	37.3	4-way valve	2
15.12	Wire joint	2	38	Discharge pipe ass'y	1
15.13	Compressor capacitor	1	38.1	One way valve	2
15.14	Load transit board	1	39	Spray the liquid capillary module	1

No.	Part Name	Quantity	No.	Part Name	Quantity
15.15	Transformer	1	39.1	Solenoid valve	1
15.16	Relay	2	39.2	Solenoid valve winding	1
15.17	Main control board subassembly	1	40	Oil balance pipe ass'y	2
15.18	Inverter module	1	41	Base ass'y	1
15.19	Radiator	1	42	Front-right supporting board	1
15.20	Three phase bridge	1	43	Front-left supporting board	1
15.21	Single-phase bridge	1	44	Valve plate ass'y	1
16	Compressor base	3	45	E-part box installation board	1
17	Compressor base	1	46	Sealed board	2
18	E-part box cover board	1	47	Oil separator	1
19	Inductance cover	1	48	Accumulator tank	1
20	Oil balance Electromagnetic valve assy	1	49	E-part box installation board	1
20.1	Solenoid valve	1	50	Separator	1
20.2	Solenoid valve winding	1	51	Net	2
21	Inductance board	1	52	Rear net	1
22	Electrical inductance	1	53	Rear-left supporting board	1
23	Inductance Holder	1	54	Cover board	2
24	Duct	1	55	Rear-right supporting board	1
25	Front cover	1	56	Net	1
26	Handle	1	57	Installation board ass'y	1
27	Accumulator tank connect pipe ass'y	1	58	Fixing board ass'y	1
27.1	Solenoid valve winding	2	59	Installation board ass'y	1
27.2	Solenoid valve	2	60	Condenser side board ass'y	1
27.3	One way valve	1	61	Cover plate ass'y	1
28	High pressure valve ass'y	1	62	Rear cover	1
28.1	Low pressure valve	1	63	Plastic top cover ass'y	1

MDVi-280(10)W/DSN1

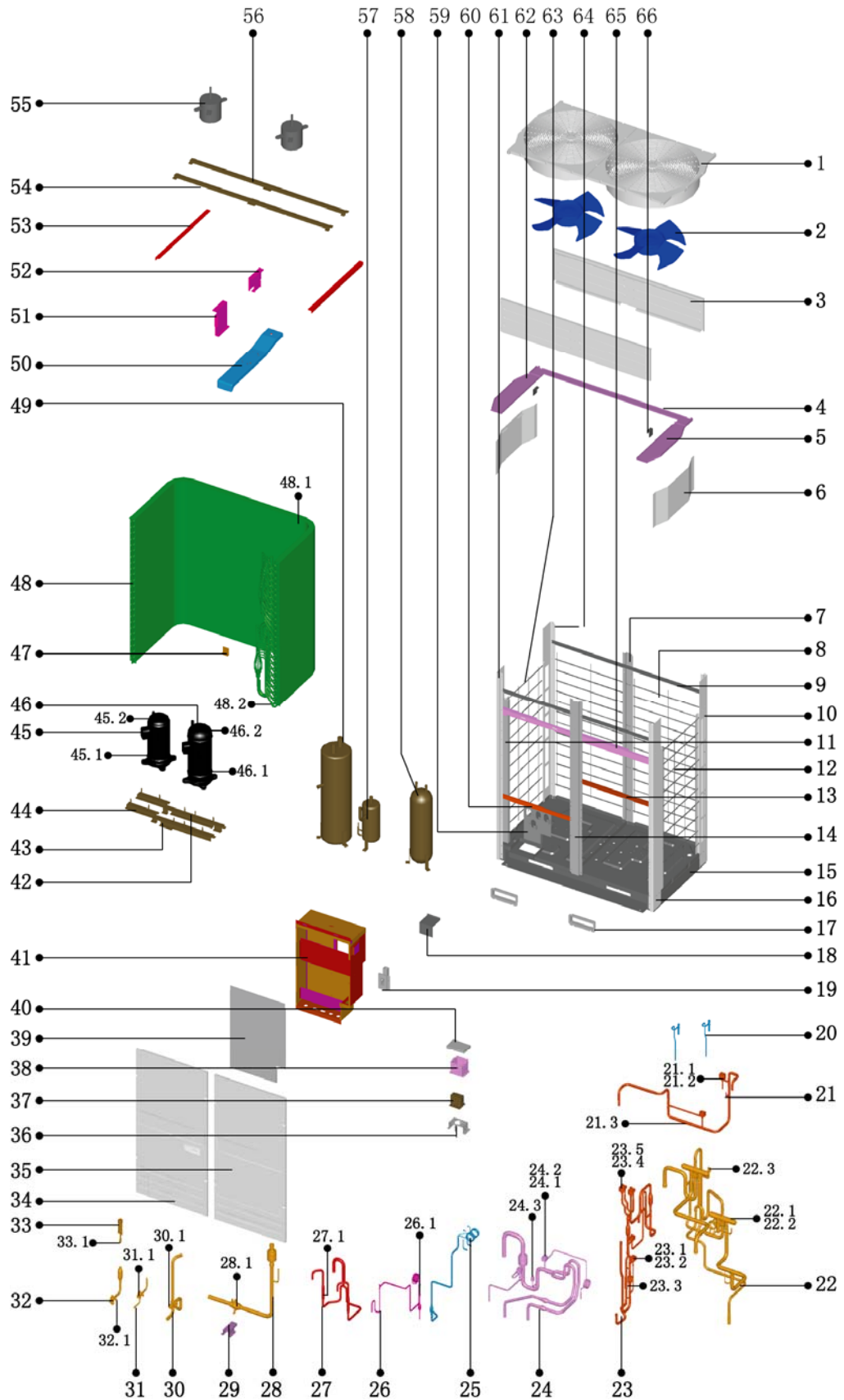


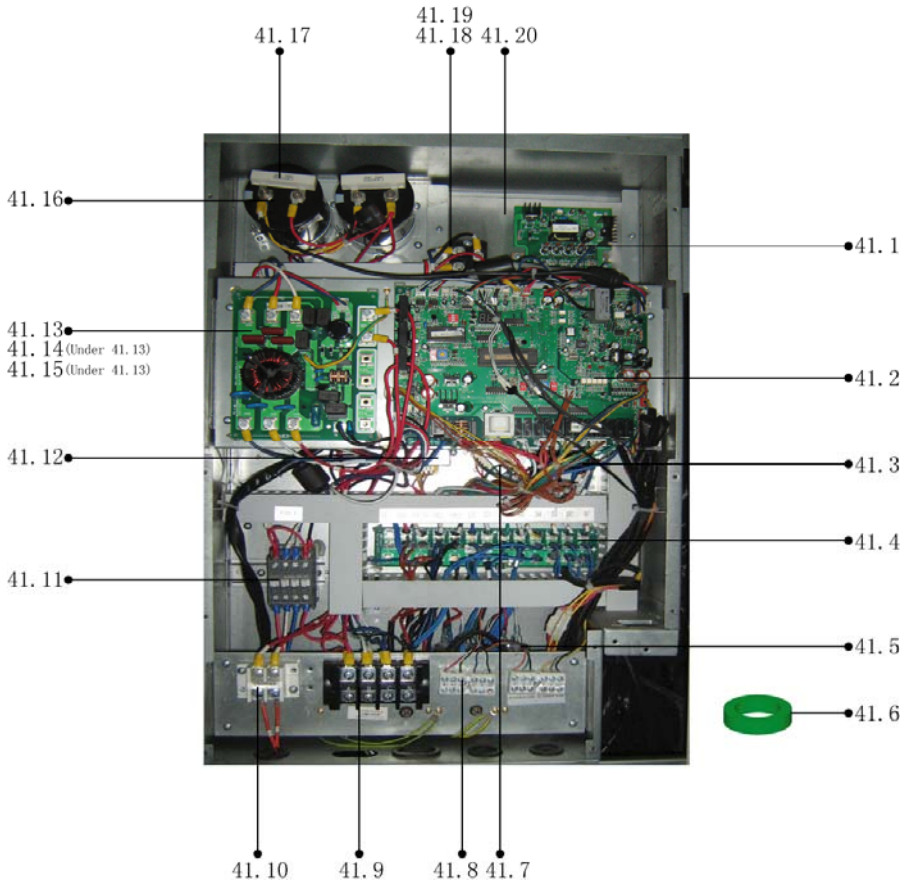
No.	Part Name	Quantity	No.	Part Name	Quantity
1	Axial flow fan	1	28.2	Strainer	1
2	Motor	1	29	Pipe joint subassembly	1
3	Motor bracket	2	29.1	Pipe joint	1
4	Outdoor temp sensor assembly	1	30	Oil balance valve ass'y	1
5	Condenser coil assembly	1	30.1	Low pressure valve	1
5.1	Input pipe ass'y	1	31	Gas balance valve ass'y	1
5.2	Output pipe ass'y	1	31.1	Low pressure valve	1
5.3	Output pipe ass'y	1	32	Ball valve module	1
5.4	Input pipe ass'y	1	32.1	Ball valve	1
6	Fixing board ass'y	1	32.2	Strainer	1
7	Outdoor evaporator temp sensor assembly	1	33	Oil return capillary pipe assy	1
8	Discharge temp sensor assembly	1	33.1	Strainer	1
9	Discharge temp sensor assembly	1	34	Suction pipe subassembly	1
10	Compressor	1	34.1	Strainer	1
11	Compressor	1	34.2	Pressure controller	1
12	Electric heater for compressor	1	34.3	Strainer	2
13	Electric heater for compressor	1	35	Oil balance capillary pipe assy	1
14	Board	4	35.1	One way valve	1
15	Electric parts assy subassembly	4	35.2	Strainer	1
15.1	E-box	1	36	Electronic expansion valve ass'y	1
15.2	Resistor	2	36.1	Electronic expansion valve	2
15.3	Aluminum electro analysis capacitor	2	36.2	EEV solenoid	2
15.4	Filter board ass'y	1	36.3	Strainer	2
15.5	Resistance	2	36.4	One way valve	3
15.6	Compressor capacitor	1	36.5	Solenoid valve	2
15.7	Transformer	1	36.6	Solenoid valve winding	2
15.8	Contacto	2	37	4-way valve subassembly	1
15.9	Magnetism loop	1	37.1	Pressure controller	1
15.10	Wire joint	1	37.2	4-Ways valve solenoid	2
15.11	Wire joint, 4p	1	37.3	4-way valve	2
15.12	Wire joint	2	38	Discharge pipe ass'y	1
15.13	Compressor capacitor	1	38.1	One way valve	2
15.14	Load transit board	1	39	Spray the liquid capillary module	1
15.15	Transformer	1	39.1	Solenoid valve	1
15.16	Relay	2	39.2	Solenoid valve winding	1
15.17	Main control board subassembly	1	40	Oil balance pipe ass'y	2
15.18	Inverter module	1	41	Base ass'y	1
15.19	Radiator	1	42	Front-right supporting board	1
15.20	Three phase bridge	1	43	Front-left supporting board	1
15.21	Single-phase bridge	1	44	Valve plate ass'y	1
16	Compressor base	3	45	E-part box installation board	1
17	Compressor base	1	46	Sealed board	2
18	E-part box cover board	1	47	Oil separator	1
19	Inductance cover	1	48	Accumulator tank	1
20	Oil balance Electromagnetic valve assy	1	49	E-part box installation board	1
20.1	Solenoid valve	1	50	Separator	1
20.2	Solenoid valve winding	1	51	Net	2

No.	Part Name	Quantity	No.	Part Name	Quantity
21	Inductance board	1	52	Rear net	1
22	Electrical inductance	1	53	Rear-left supporting board	1
23	Inductance Holder	1	54	Cover board	2
24	Duct	1	55	Rear-right supporting board	1
25	Front cover	1	56	Net	1
26	Handle	1	57	Installation board ass'y	1
27	Accumulator tank connect pipe ass'y	1	58	Fixing board ass'y	1
27.1	Solenoid valve winding	2	59	Installation board ass'y	1
27.2	Solenoid valve	2	60	Condenser side board ass'y	1
27.3	One way valve	1	61	Cover plate ass'y	1
28	High pressure valve ass'y	1	62	Rear cover	1
28.1	Low pressure valve	1	63	Plastic top cover ass'y	1



# MDVi-335(12)W/DSN1

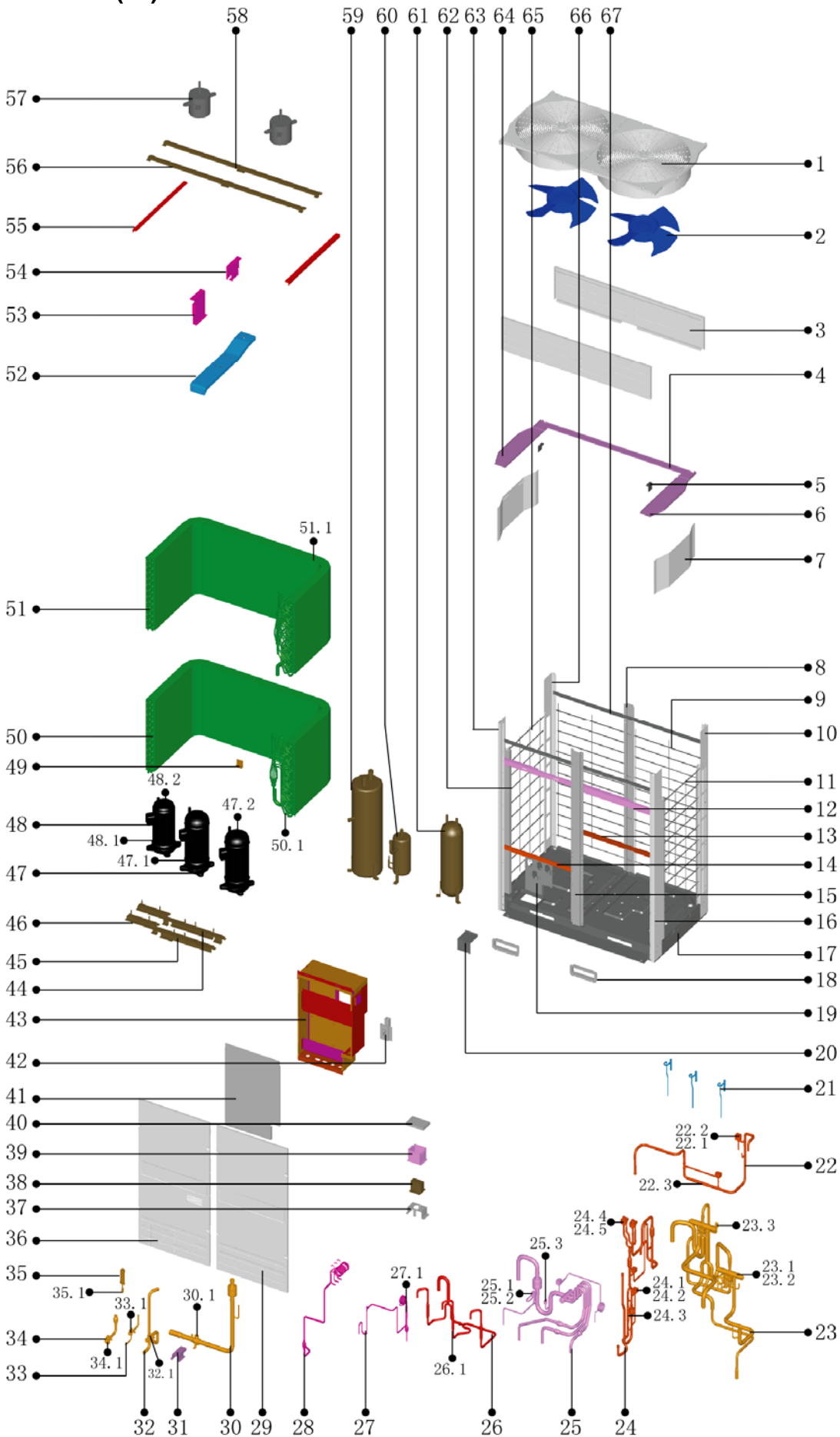


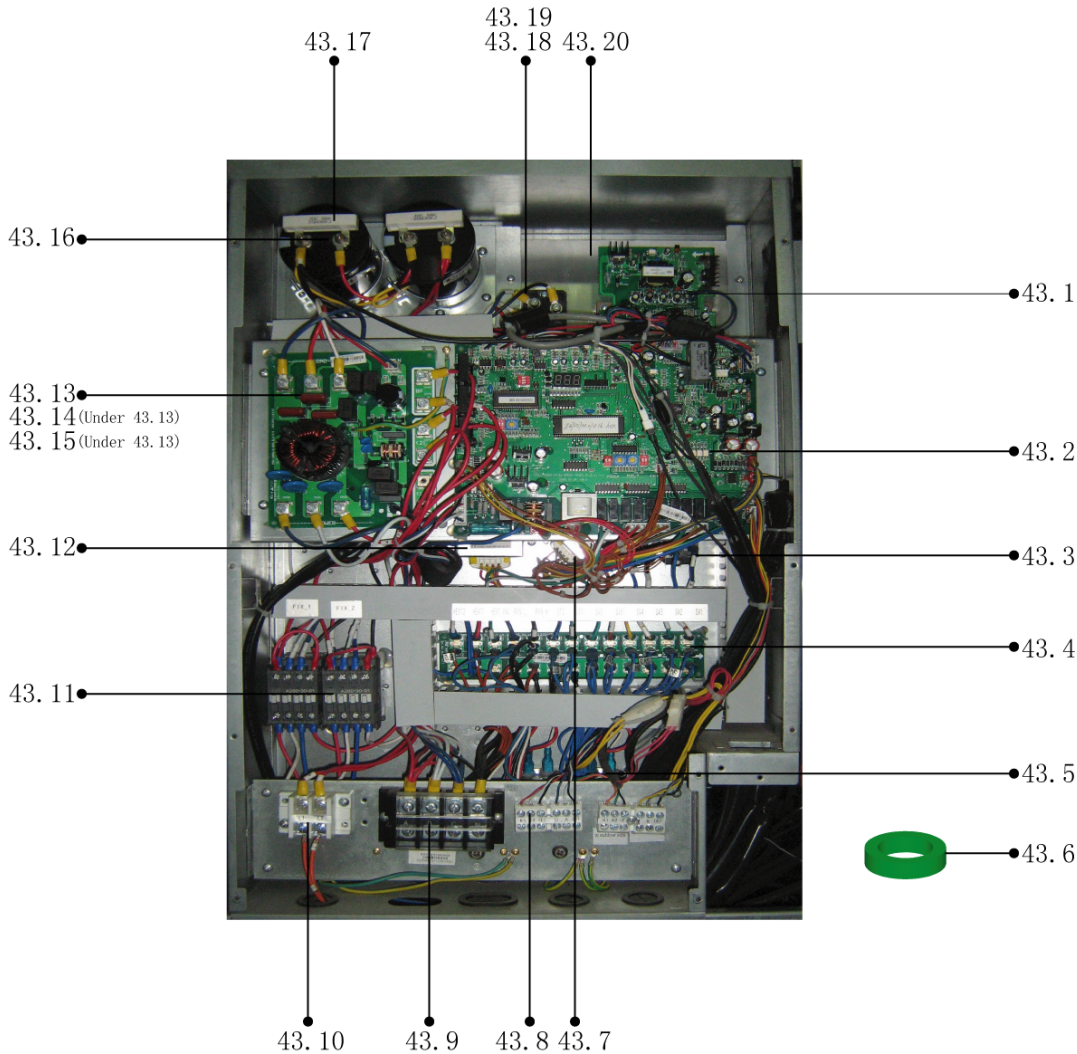


No.	Part Name	Quantity	No.	Part Name	Quantity
1	Top cover	2	37	Electrical inductance	1
2	Axial flow fan	2	38	Inductance board	1
3	Covering plate	2	39	E-part box cover board	1
4	Rear clapboard ass'y	1	40	Inductance cover	1
5	Baffle ass'y	1	41	E-part box ass'y	1
6	Cover board	2	41.1	Inverter module	1
7	Support board	1	41.2	Main controller ass'y	1
8	Rear net	2	41.3	Relay	2
9	Support board	2	41.4	Load transit board	1
10	Rear-right supporting board	1	41.5	Compressor capacitor	2
11	Condenser side board	2	41.6	Magnetism loop	1
12	Net	1	41.7	Transformer	1
13	Expansion valve bracket	1	41.8	Wire joint	2
14	Mid-front holder	1	41.9	Wire joint, 4p	1
15	Base	1	41.10	Wire joint	1
16	Front-right supporting board	1	41.11	Contactator	2
17	Board	4	41.12	Transformer	1
18	Valve plate cover	1	41.13	Filter board ass'y	1
19	Duct	1	41.14	Resistance	2
20	Oil balance pipe ass'y	2	41.15	Compressor capacitor	1
21	Accumulator connection pipe ass'y	1	41.16	Aluminum electro analysis capacitor	2
21.1	Solenoid valve	2	41.17	Resistor	2
21.2	Solenoid valve winding	2	41.18	Three phase bridge	1
21.3	One way valve	1	41.19	Single-phase bridge	1

No.	Part Name	Quantity	No.	Part Name	Quantity
22	4-way valve ass'y	1	41.20	Radiator	1
22.1	4-way valve	2	42	Compressor supporter ass'y II	1
22.2	4-Ways valve solenoid	2	43	Compressor supporter ass'y III	1
22.3	Pressure controller	1	44	Compressor supporter ass'y I	2
23	Electronic expansion valve ass'y	1	45	Compressor	1
23.1	Solenoid valve	2	45.1	Compressor electric heater	1
23.2	Solenoid valve winding	2	45.2	Discharge temp sensor ass'y	1
23.3	One way valve	3	46	Compressor	1
23.4	Electronic expansion valve	2	46.1	Compressor electric heater	1
23.5	EEV solenoid	2	46.2	Discharge temp sensor ass'y	1
24	Suction pipe ass'y	1	47	Fixing board ass'y	1
24.1	Solenoid valve	2	48	Condenser ass'y	1
24.2	Solenoid valve winding	2	48.1	Temp sensor ass'y	1
24.3	Pressure controller	1	48.2	Temp sensor ass'y	1
25	Capillary ass'y	1	49	Separator	1
26	Oil balance pipe ass'y	1	50	Motor bracket ass'y	1
26.1	One way valve	1	51	Cover supporter	1
27	Discharge pipe ass'y	1	52	Cover supporter	1
27.1	One way valve	2	53	Middle supporting ass'y	2
28	Low pressure valve ass'y	1	54	Motor bracket ass'y	1
28.1	Ball valve	1	55	Motor	2
29	Ball valve supporter ass'y	1	56	Motor bracket ass'y	1
30	Gas balance valve ass'y	1	57	Oil separator	1
30.1	Low pressure valve	1	58	Accumulator tank	1
31	Oil balance valve ass'y	1	59	Valve plate	1
31.1	Low pressure valve	1	60	E-part box Support board	1
32	High pressure valve ass'y	1	61	Front-left supporting board	1
32.1	Low pressure valve	1	62	Wind baffle ass'y	1
33	Pipe joint subassembly	1	63	Net	1
33.1	Pipe joint	1	64	Rear-left supporting board	1
34	Front-left clapboard	1	65	E-part box Support board	1
35	Front-right board	1	66	Fixing board ass'y	3
36	Inductance Holder	1			

### MDVi-400(14)W/DSN1



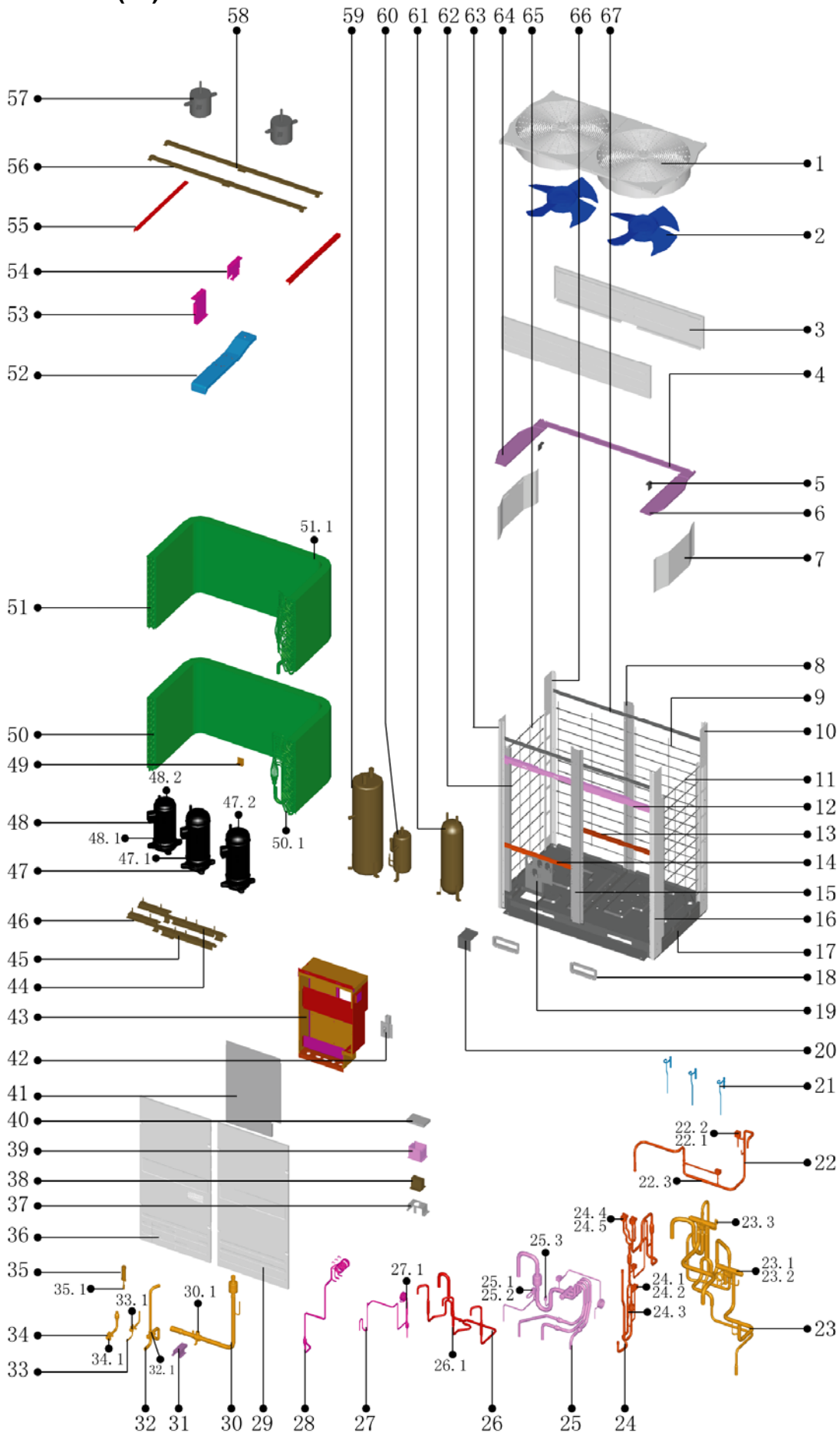


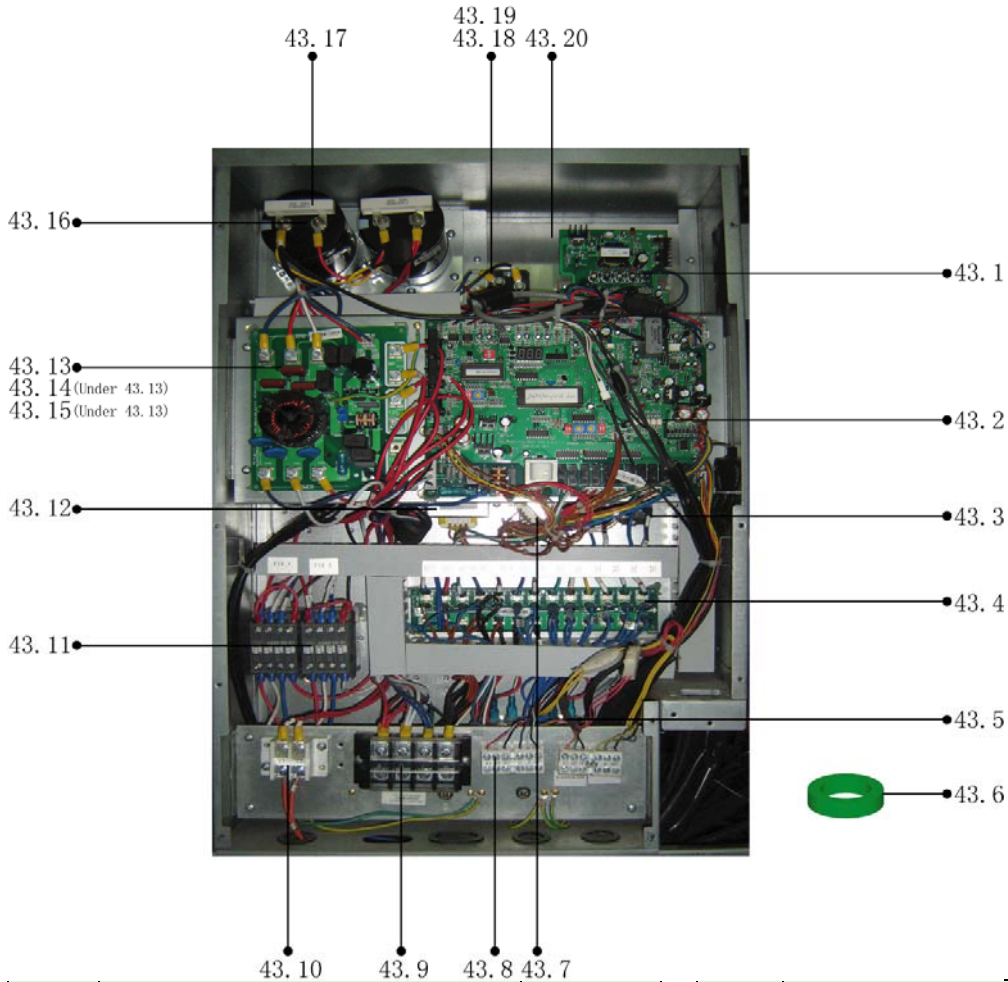
No.	Part Name	Quantity	No.	Part Name	Quantity
1	Top cover	2	37	Inductance Holder	1
2	Axial flow fan	2	38	Electrical inductance	1
3	Covering plate	2	39	Inductance board	1
4	Rear clapboard ass'y	1	40	Inductance cover	1
5	Fixing board ass'y	3	41	E-part box cover board	1
6	Baffle ass'y	1	42	Duct	1
7	Cover board	2	43	E-part box ass'y	1
8	Support board	1	43.1	Inverter module	1
9	Rear net	2	43.2	Main controller ass'y	1
10	Rear-right supporting board	1	43.3	Relay	2
11	Net	1	43.4	Load transit board	1
12	E-part box Support board	1	43.5	Compressor capacitor	2
13	Expansion valve bracket	1	43.6	Magnetism loop	1
14	E-part box Support board	1	43.7	Transformer	1
15	Mid-front holder	1	43.8	Wire joint	2
16	Front-right supporting board	1	43.9	Wire joint, 4p	1
17	Base	1	43.10	Wire joint	1
18	Board	4	43.11	Contactur	1
19	Valve plate	1	43.12	Transformer	1
20	Valve plate cover	1	43.13	Filter board ass'y	1

No.	Part Name	Quantity	No.	Part Name	Quantity
21	Oil balance pipe ass'y	3	43.14	Resistance	2
22	Accumulator connection pipe ass'y	1	43.15	Compressor capacitor	1
22.1	Solenoid valve	2	43.16	Aluminum electro analysis capacitor	2
22.2	Solenoid valve winding	2	43.17	Resistor	2
22.3	One way valve	1	43.18	Three phase bridge	1
23	4-way valve ass'y	1	43.19	Single-phase bridge	1
23.1	4-way valve	2	43.20	Radiator	1
23.2	4-Ways valve solenoid	2	44	Compressor supporter ass'y II	1
23.3	Pressure controller	1	45	Compressor supporter ass'y III	1
24	Electronic expansion valve ass'y	1	46	Compressor supporter ass'y I	2
24.1	Solenoid valve	2	47	Compressor	2
24.2	Solenoid valve winding	2	47.1	Compressor electric heater	2
24.3	One way valve	1	47.2	Discharge temp sensor ass'y	1
24.4	Electronic expansion valve	2	48	Compressor	1
24.5	EEV solenoid	2	48.1	Compressor electric heater	1
25	Suction pipe ass'y	1	48.2	Discharge temp sensor ass'y	1
25.1	Solenoid valve	2	49	Fixing board ass'y	1
25.2	Solenoid valve winding	2	50	Below condenser ass'y	1
25.3	Pressure controller	1	50.1	Temp sensor ass'y	1
26	Discharge pipe ass'y	1	51	Up condenser ass'y	1
26.1	One way valve	3	51.1	Temp sensor ass'y	1
27	Oil balance pipe ass'y	1	52	Motor bracket ass'y	1
27.1	One way valve	1	53	Cover supporter	1
28	Capillary ass'y	1	54	Cover supporter	1
29	Front-right board	1	55	Middle supporting ass'y	2
30	Low pressure valve ass'y	1	56	Motor bracket ass'y	1
30.1	Ball valve	1	57	Motor	2
31	Ball valve supporter ass'y	1	58	Motor bracket ass'y	1
32	Gas balance valve ass'y	1	59	Separator	1
32.1	Low pressure valve	1	60	Oil separator	1
33	Oil balance valve ass'y	1	61	Accumulator tank	1
33.1	Low pressure valve	1	62	Condenser side board	2
34	High pressure valve ass'y	1	63	Front-left supporting board	1
34.1	Low pressure valve	1	64	Wind baffle ass'y	1
35	Pipe joint ass'y	1	65	Net	1
35.1	Pipe joint	1	66	Rear-left supporting board	1
36	Front-left clapboard	1	67	Support board	2



### MDVi-450(16)W/DSN1





No.	Part Name	Quantity
1	Top cover	2
2	Axial flow fan	2
3	Covering plate	2
4	Rear clapboard ass'y	1
5	Fixing board ass'y	3
6	Baffle ass'y	1
7	Cover board	2
8	Support board	1
9	Rear net	2
10	Rear-right supporting board	1
11	Net	1
12	E-part box Support board	1
13	Expansion valve bracket	1
14	E-part box Support board	1
15	Mid-front holder	1
16	Front-right supporting board	1
17	Base	1
18	Board	4
19	Valve plate	1
20	Valve plate cover	1
21	Oil balance pipe ass'y	3
22	Accumulator connection pipe ass'y	1

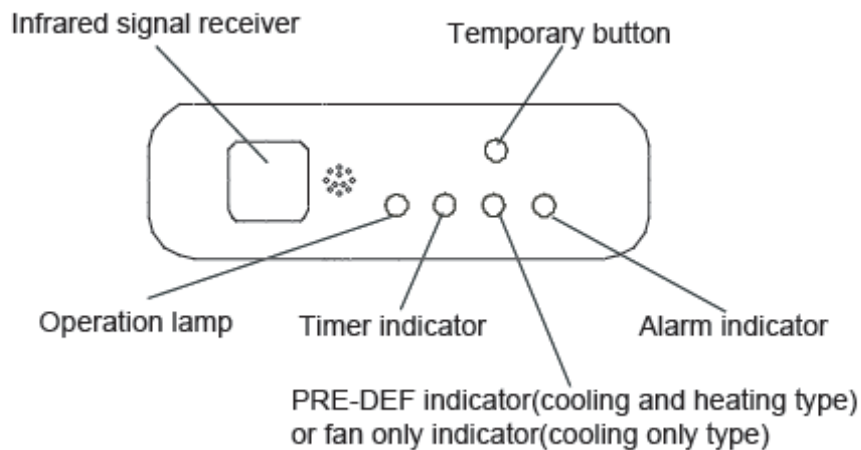
No.	Part Name	Quantity
37	Inductance Holder	1
38	Electrical inductance	1
39	Inductance board	1
40	Inductance cover	1
41	E-part box cover board	1
42	Duct	1
43	E-part box ass'y	1
43.1	Inverter module	1
43.2	Main controller ass'y	1
43.3	Relay	2
43.4	Load transit board	1
43.5	Compressor capacitor	2
43.6	Magnetism loop	1
43.7	Transformer	1
43.8	Wire joint	2
43.9	Wire joint, 4p	1
43.10	Wire joint	1
43.11	Contactur	1
43.12	Transformer	1
43.13	Filter board ass'y	1
43.14	Resistance	2
43.15	Compressor capacitor	1



No.	Part Name	Quantity	No.	Part Name	Quantity
22.1	Solenoid valve	2	43.16	Aluminum electro analysis capacitor	2
22.2	Solenoid valve winding	2	43.17	Resistor	2
22.3	One way valve	1	43.18	Three phase bridge	1
23	4-way valve ass'y	1	43.19	Single-phase bridge	1
23.1	4-way valve	2	43.20	Radiator	1
23.2	4-Ways valve solenoid	2	44	Compressor supporter ass'y II	1
23.3	Pressure controller	1	45	Compressor supporter ass'y III	1
24	Electronic expansion valve ass'y	1	46	Compressor supporter ass'y I	2
24.1	Solenoid valve	2	47	Compressor	2
24.2	Solenoid valve winding	2	47.1	Compressor electric heater	2
24.3	One way valve	1	47.2	Discharge temp sensor ass'y	1
24.4	Electronic expansion valve	2	48	Compressor	1
24.5	EEV solenoid	2	48.1	Compressor electric heater	1
25	Suction pipe ass'y	1	48.2	Discharge temp sensor ass'y	1
25.1	Solenoid valve	2	49	Fixing board ass'y	1
25.2	Solenoid valve winding	2	50	Below condenser ass'y	1
25.3	Pressure controller	1	50.1	Temp sensor ass'y	1
26	Discharge pipe ass'y	1	51	Up condenser ass'y	1
26.1	One way valve	3	51.1	Temp sensor ass'y	1
27	Oil balance pipe ass'y	1	52	Motor bracket ass'y	1
27.1	One way valve	1	53	Cover supporter	1
28	Capillary ass'y	1	54	Cover supporter	1
29	Front-right board	1	55	Middle supporting ass'y	2
30	Low pressure valve ass'y	1	56	Motor bracket ass'y	1
30.1	Ball valve	1	57	Motor	2
31	Ball valve supporter ass'y	1	58	Motor bracket ass'y	1
32	Gas balance valve ass'y	1	59	Separator	1
32.1	Low pressure valve	1	60	Oil separator	1
33	Oil balance valve ass'y	1	61	Accumulator tank	1
33.1	Low pressure valve	1	62	Condenser side board	2
34	High pressure valve ass'y	1	63	Front-left supporting board	1
34.1	Low pressure valve	1	64	Wind baffle ass'y	1
35	Pipe joint ass'y	1	65	Net	1
35.1	Pipe joint	1	66	Rear-left supporting board	1
36	Front-left clapboard	1	67	Support board	2

## 12. Troubleshooting

### 12.1 Indoor Units lamp flashes:



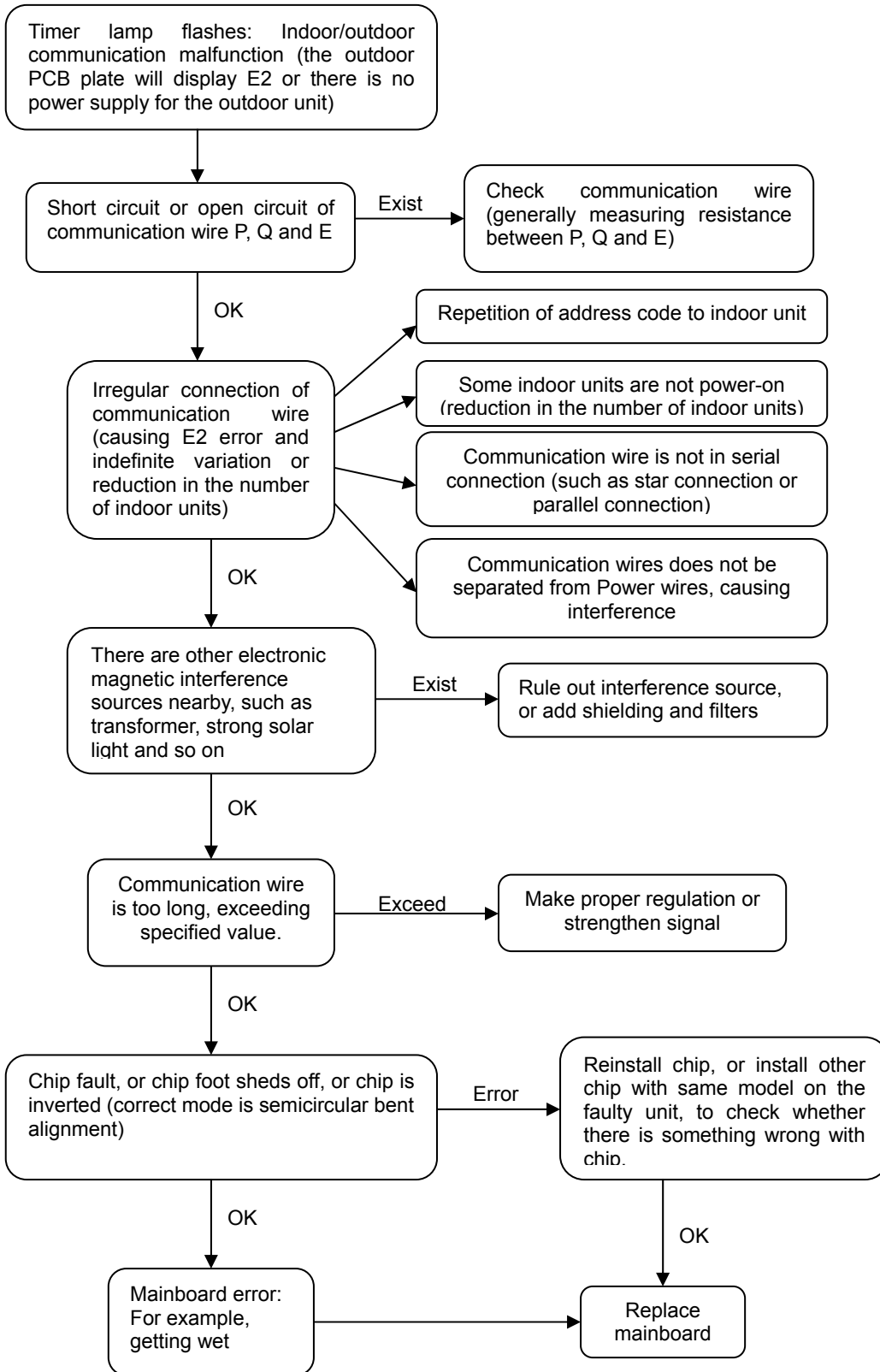
No	Display Contents	Explanation of Malfunction
1	All lamps are off	Standing-by
2	Operation lamp is on	ON
3	PRE./DEF. lamp is on	Anti-cooling or Defrosting
4	Timer lamp is on	Timer function is on
5	Timer lamp flashes	Indoor/outdoor communication malfunction
6	Operation lamp flashes	Indoors temp. Sensor abnormal
7	PRE/DEF. Lamp flashes	Mode-confliction malfunction
8	Alarm lamp flashes quickly	Water-level switch abnormal
9	Alarm lamp flashes slowly	Outdoor malfunction or protection

### LED and LCD display on the new panel of 4-way cassette

No.	Error or Protection	Operation	Timer	DEF/FAN	Alarm	Recoverable or not	Code
1	Room temperature sensor checking channel is abnormal	X	☆	X	X	Yes	E2
2	Evaporator temperature sensor checking channel is abnormal	☆	X	X	X	Yes	E3
3	Condenser temperature sensor checking channel is abnormal	X	X	☆	X	Yes	E4
4	Pump sensor malfunction	X	X	X	☆	Yes	E5
5	Outdoor protection (lack of phase, phase sequence, etc.)	☆	☆	☆	☆	Yes	E6
6	EEPROM malfunction	☆	☆	X	X	No	E7
7	Water level alarm	X	X	X	☆	Yes or No (if last for 3 min the error hasn't been eliminated yet)	E8
8	Communication malfunction					Yes	E1

(X stands for Elimination(OFF), ☆ stands for flashing at 5Hz)

① **Timer lamp flashes: Indoor/outdoor communication malfunction**



**Note:**

1. Press the “manual” button on remote control receiver of indoor unit in turn (display the address code of this indoor unit when pressing and holding for 5 seconds (display capacity code when pressing and holding for 10 seconds), check all address codes.

Codes to be inspected are as follows:

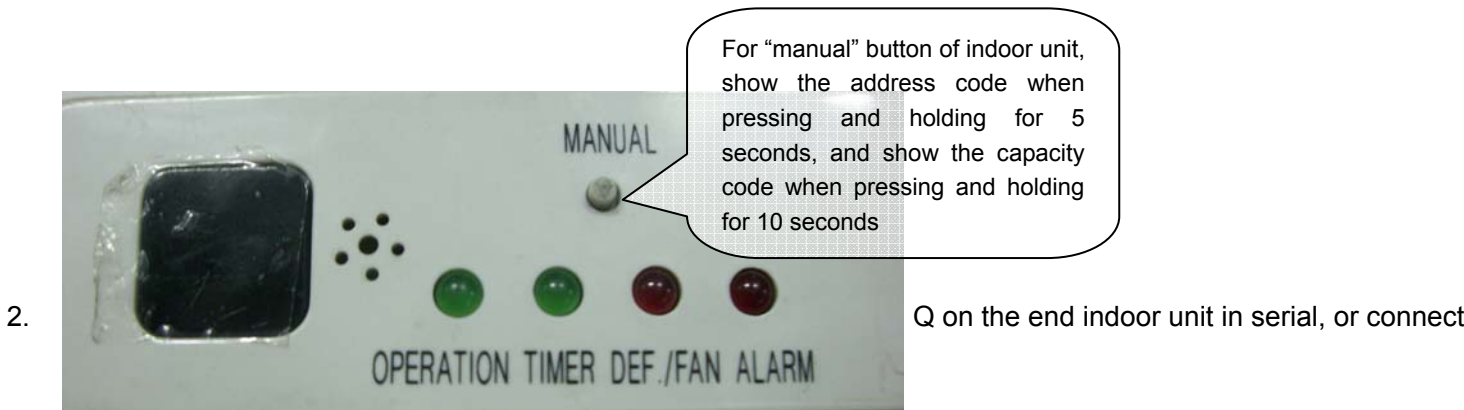
Indicator	OPERATION	TIMER	DEF / FAN	ALARM
Code	8	4	2	1

Address code	0	1	2	3	4	5	6	7	8	9
Capacity (x 100W)	22	28	36	45	56	71	80	90	112	140
Horsepower (HP)	0.8	1.0	1.2	1.6	2.0	2.5	3.0	3.2	4.0	5.0

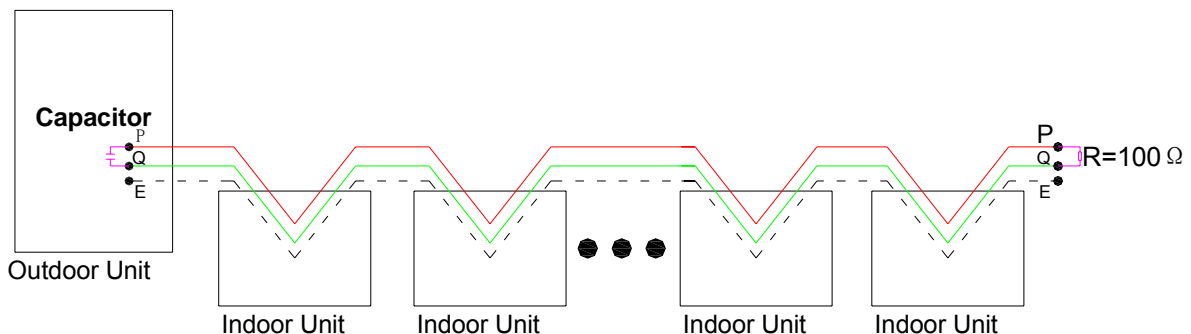
For example: After pressing and holding for 5 seconds, "Operation" light and "Alarm" light is constant-on, which indicates that the address code is  $(8 + 1) = 9$ ;

(Note: If the indicator is constant-on, calculate according to the above-mentioned formula. If the indicator is flashing, add 16 to the original calculated code, for example: After pressing and holding for 5 seconds, "Operation" light and "Alarm" light is flashing, which indicates that the address code is  $16 + (8 + 1) = 25$ .)

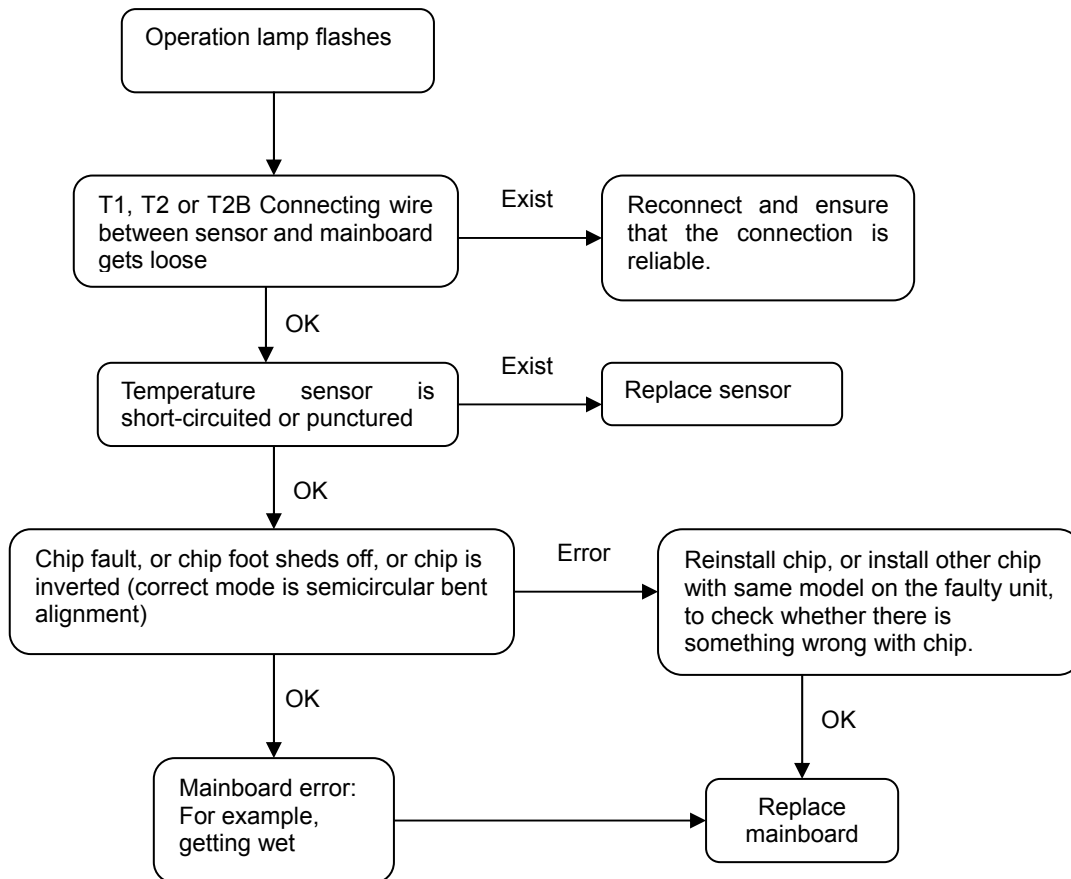
After pressing and holding for 10 seconds, "Operation" light and "Alarm" light is constant-on, which indicates that the address code is  $(4 + 1) = 5$ ; indicating the capacity of this unit is  $71 \times 100W$  (2.5 HP).



Signal wire must be shielded wire; indoor units must be connected in serial. At the end, connect a resistor on indoor unit or a capacitor between P and Q on outdoor unit.



② Operation lamp flashes: Indoors temp. Sensor abnormal



**Caution:** There are three temp. sensors in indoor unit, i.e. T1, T2 and T2B, of which fault in any one will cause operation light flashing and report error.

③ **DEF. Lamp flashes: Mode-conflict malfunction**

In the below table, “Yes” indicates existing mode conflict, “No” indicates no mode conflict.

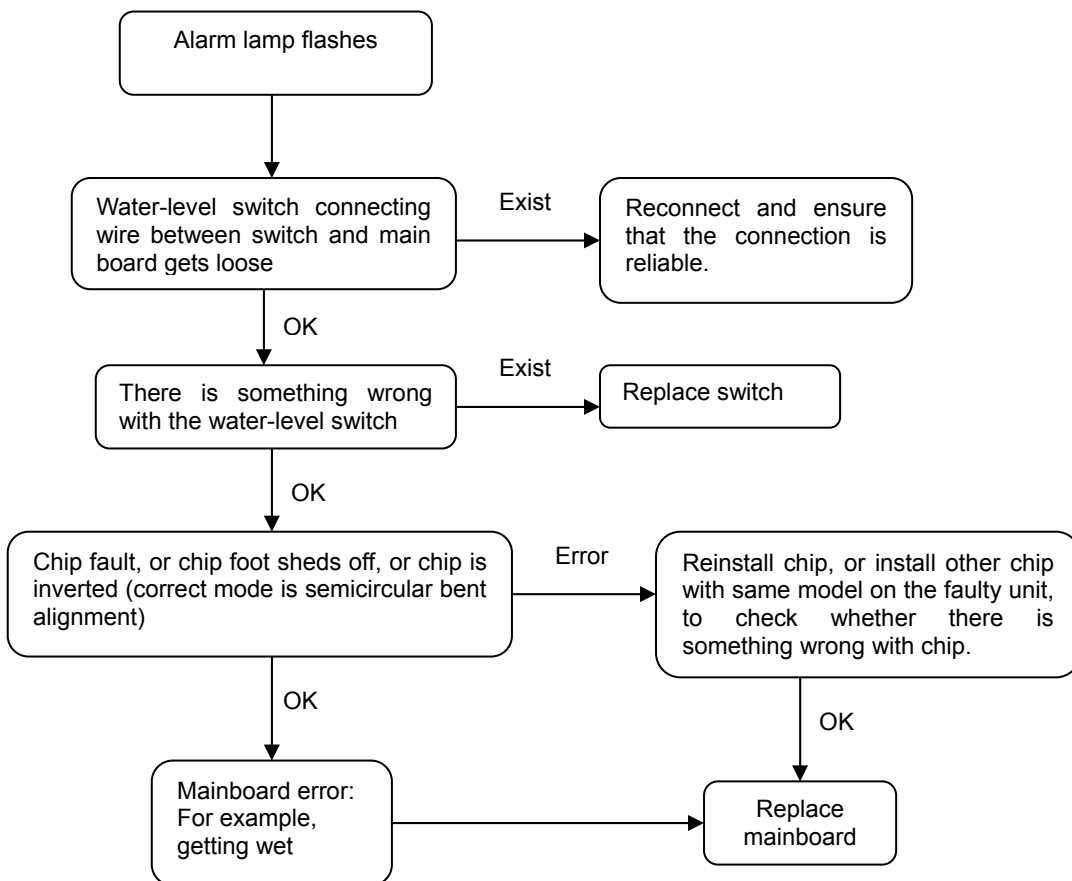
	Cooling	Heating	Air-supply	OFF
Cooling	No	Yes	No	No
Heating	Yes	No	Yes	No
Air-supply	No	Yes	No	No
OFF	No	No	No	No

When indoor unit receiving heating operation instruction, it will transmit the operation mode signal to outdoor unit to conduct prior heating control, including:

**In process of cooling and air-supply mode operation:** After receiving the heating operation instruction, outdoor unit stops cooling and supplying air, and transfers to heating mode three minutes later after the shutdown of compressor; indoor unit required to conduct cooling and air-supply mode operation is on standby mode and displays mode conflict fault.

**In process of heating mode operation:** Ignore cooling and air-supply mode operation instruction, outdoor unit keeps on operating according to heating mode; Indoor unit with cooling and air-supply mode operation displays mode conflict fault. If heating mode operation stops (except that indoor unit reaches setting temperature because of heating), cooling and air-supply mode restarts up and conducts operation three minutes later.

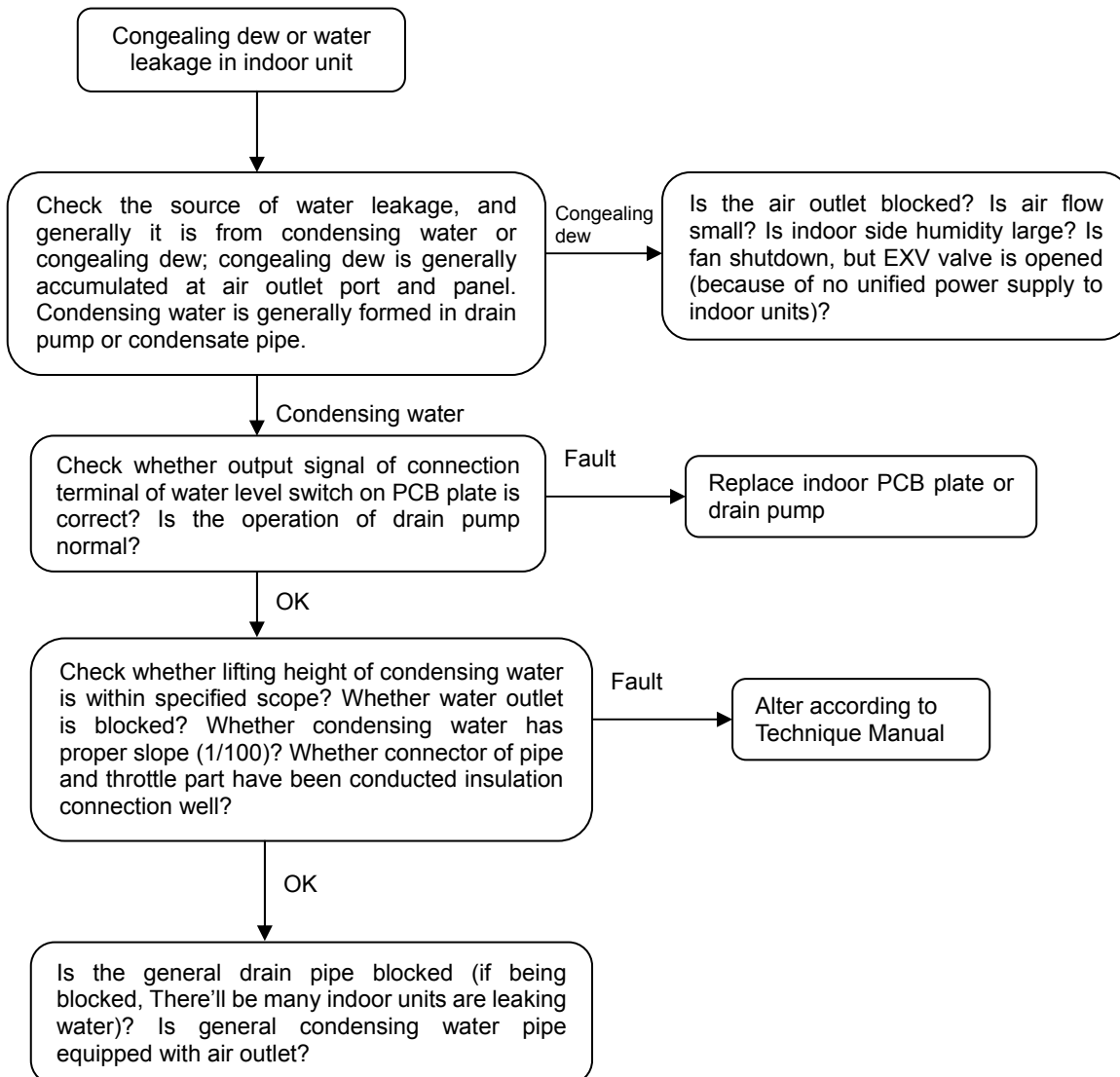
④ **Alarm lamp flashes: Water-level switch abnormal**



⑤ **Alarm lamp flashes slowly: Outdoor malfunction or protection**

Examine outdoor unit, and analyze according to actual condition

⑥ **Congealing Dew or Water Leakage in Indoor Units**

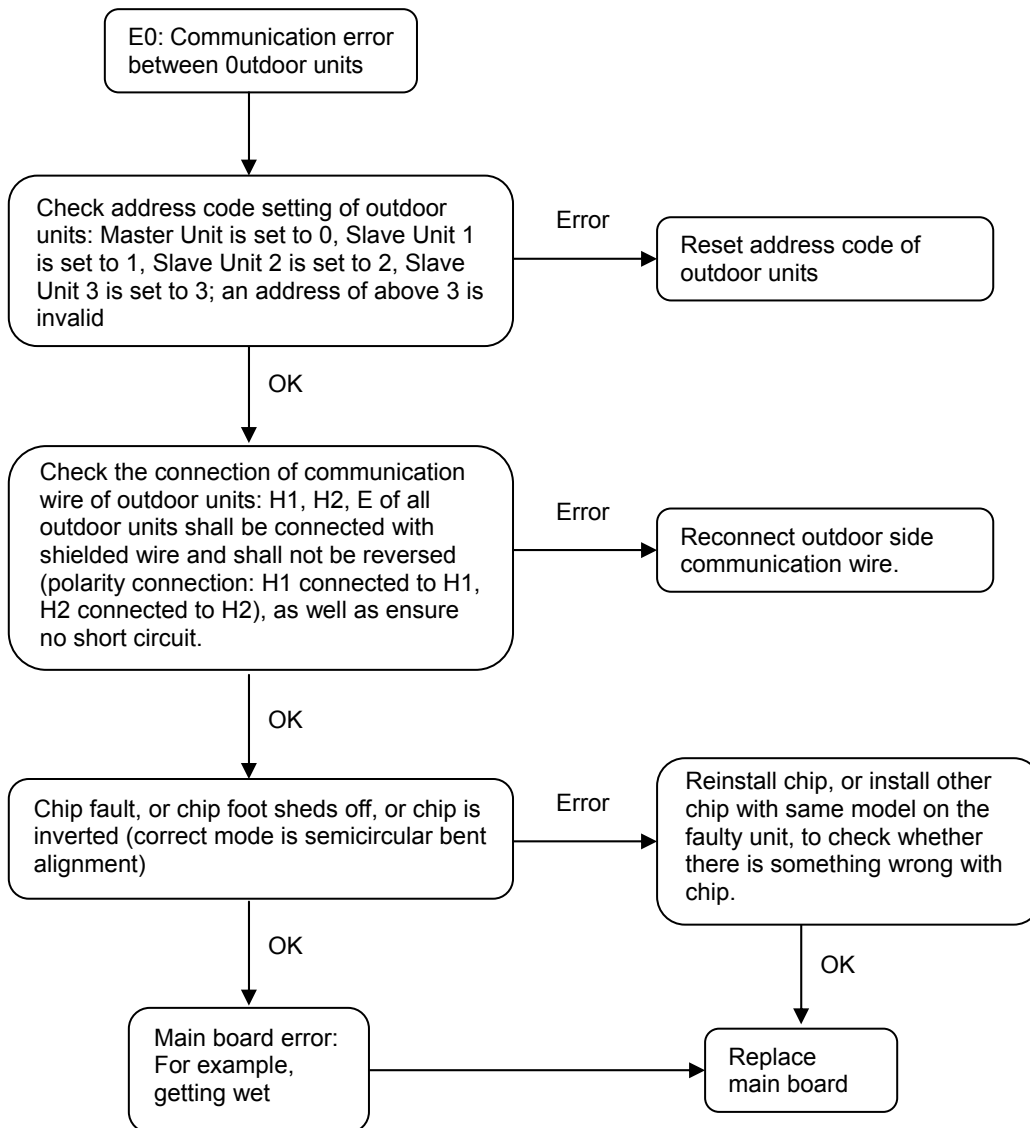


**12.2 Outdoor unit's LED indication:**

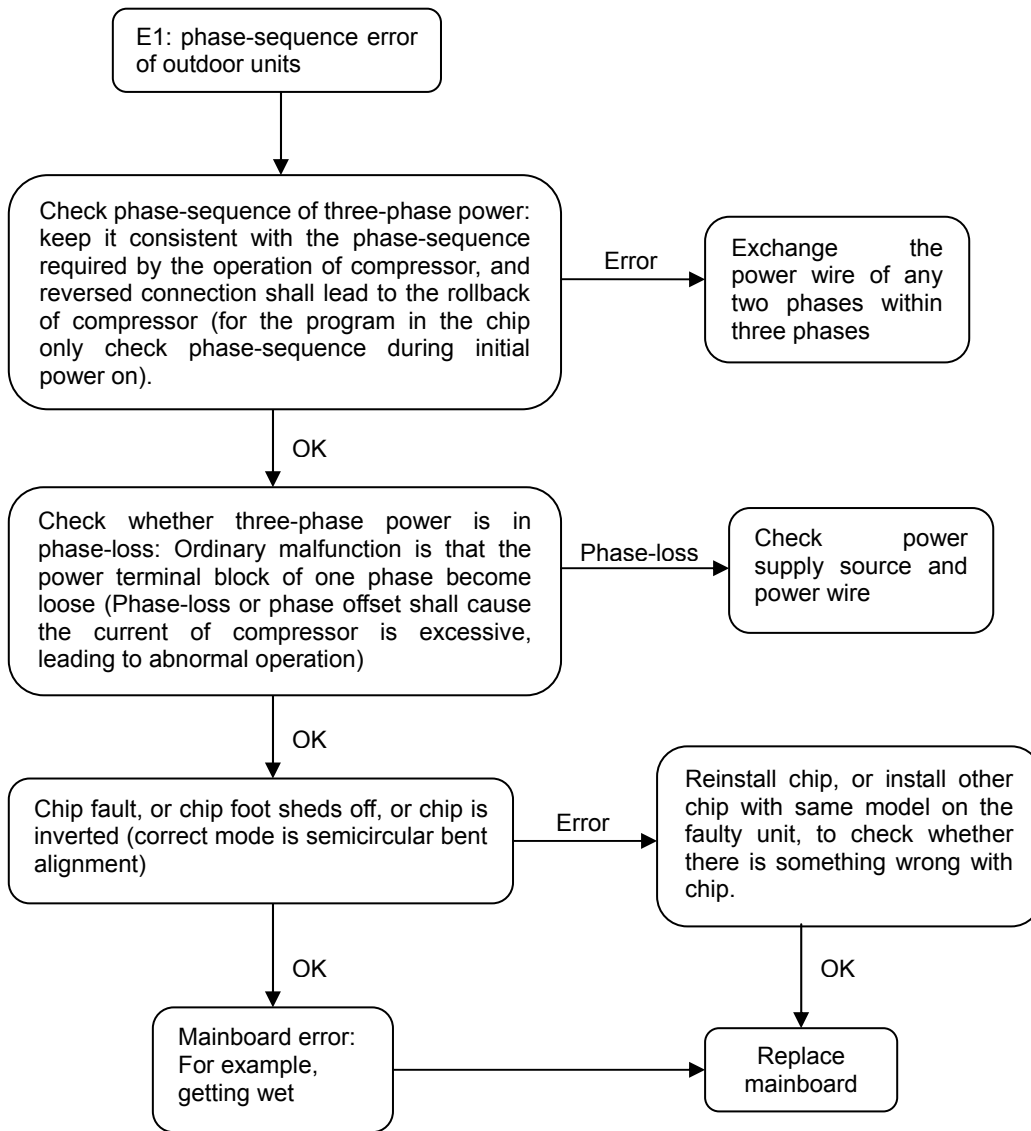
No	Display	Malfunction or Protection	Remark
1	<b>E0</b>	Communication error between outdoor units	Only slave unit display
2	<b>E1</b>	Phase protection	All the outdoor units display
3	<b>E2</b>	Communication error between indoor unit and master unit	All the outdoor units display
4	<b>E4</b>	Outdoor temperature sensor error	All the outdoor units display
5	<b>E8</b>	Outdoor unit address error	All the outdoor units display
6	<b>E9</b>	Power volt. Error	All the outdoor units display
7	<b>H0</b>	Communication malfunction between DSP and 780034	All the outdoor units display
8	<b>H1</b>	Communication malfunction between 9177 and 780034	All the outdoor units display
9	<b>H2</b>	Quantity of outdoor unit decreases	Only master unit display
10	<b>H3</b>	Quantity of outdoor unit increases	Only master unit display
11	<b>P0</b>	Inverter compressor top temperature protection	All the outdoor units display
12	<b>P1</b>	Hi-pressure protection	All the outdoor units display
13	<b>P2</b>	Low-pressure protection	All the outdoor units display
14	<b>P3</b>	Compressor current Protection	All the outdoor units display
15	<b>P4</b>	Compressor discharge temperature protection	All the outdoor units display
16	<b>P5</b>	Outdoor condenser high temperature protection	All the outdoor units display
17	<b>P6</b>	Inverter module protection	All the outdoor units display
18	<b>P7</b>	Current protection, No.1 fixed compressor	All the outdoor units display
19	<b>P8</b>	Current protection, No.2 fixed compressor	14/16HP outdoor units display



**E0: Communication error between outdoor units**

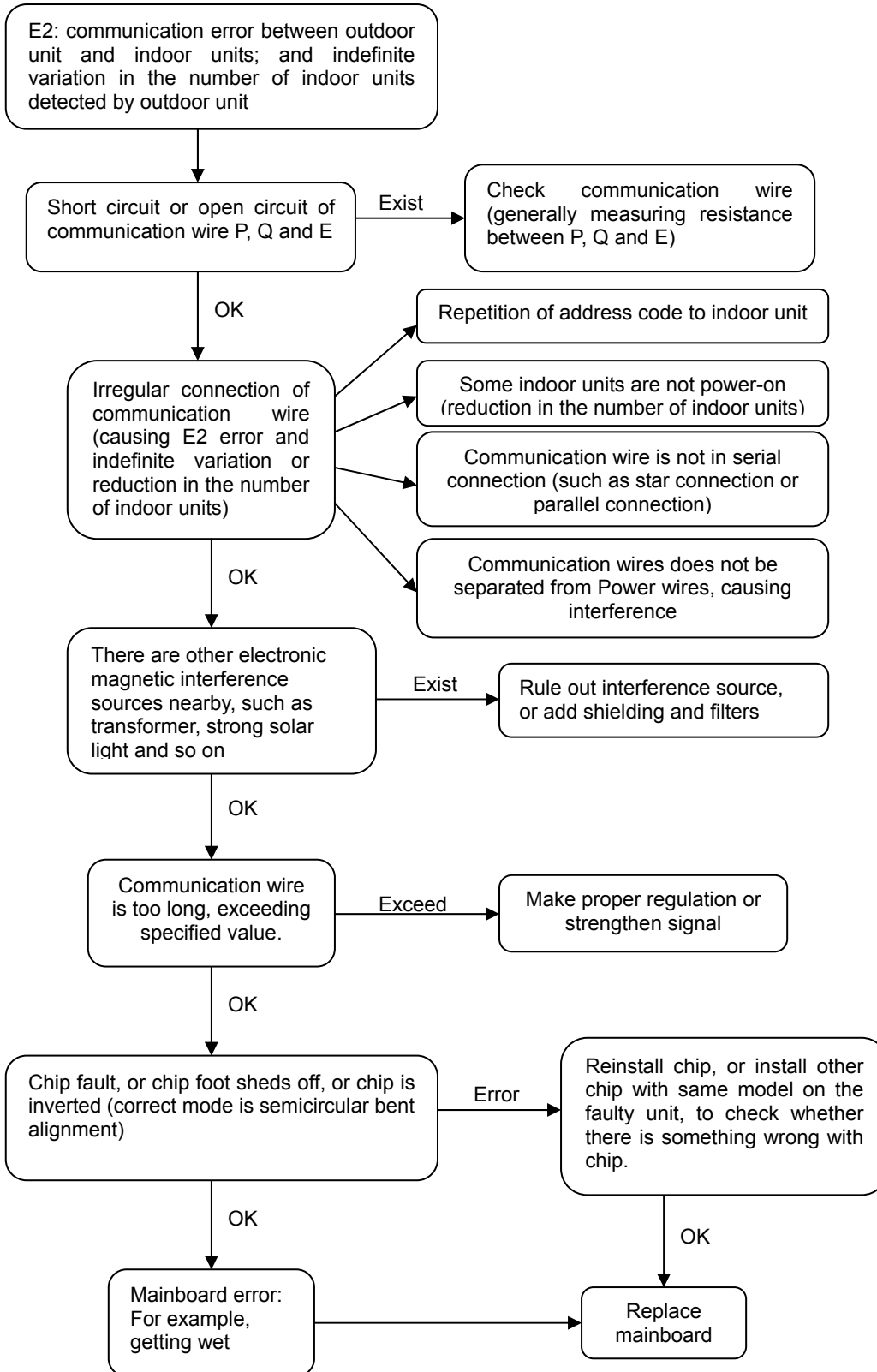


**E1: Phase-sequence Error**



**Note:** Because all electric motors of MDV outdoor units are connected to phase C, if each outdoor unit is connected according to normal phase-sequence of A, B, and C. when the number of outdoor units is large, current difference between phase C and other two phases at main power supply shall be very large too, leading to disconnection of the air breaker at power distribution cabinet or fusing of terminal blocks. Therefore, when the number of outdoor units is large, the phase sequence shall be shifted for evenly distributing motor current to three phases.

**E2: Communication Error between Outdoor Unit and Indoor Units; and indefinite variation in the number of indoor unit detected by outdoor unit**



**Note:**

1. Press the “manual” button on remote control receiver of indoor unit in turn (display the address code of this indoor unit when pressing and holding for 5 seconds (display capacity code when pressing and holding for 10 seconds), check all address codes.

Codes to be inspected are as follows:

Indicator	OPERATION	TIMER	DEF / FAN	ALARM
Code	8	4	2	1

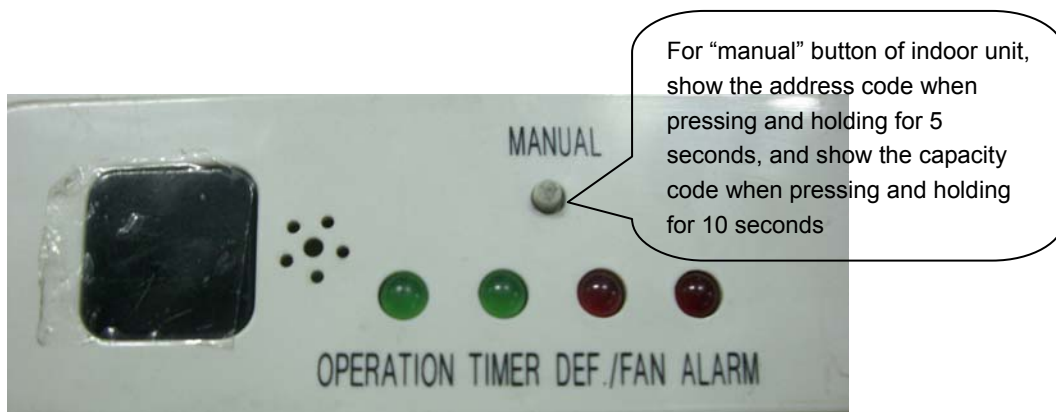
Address code	0	1	2	3	4	5	6	7	8	9
Capacity (x 100W)	22	28	36	45	56	71	80	90	112	140
Horsepower (HP)	0.8	1.0	1.2	1.6	2.0	2.5	3.0	3.2	4.0	5.0

For example: After pressing and holding for 5 seconds, "Operation" light and "Alarm" light is constant-on, which indicates that the address code is  $(8 + 1) = 9$ ;

(Note: If the indicator is constant-on, calculate according to the above-mentioned formula.

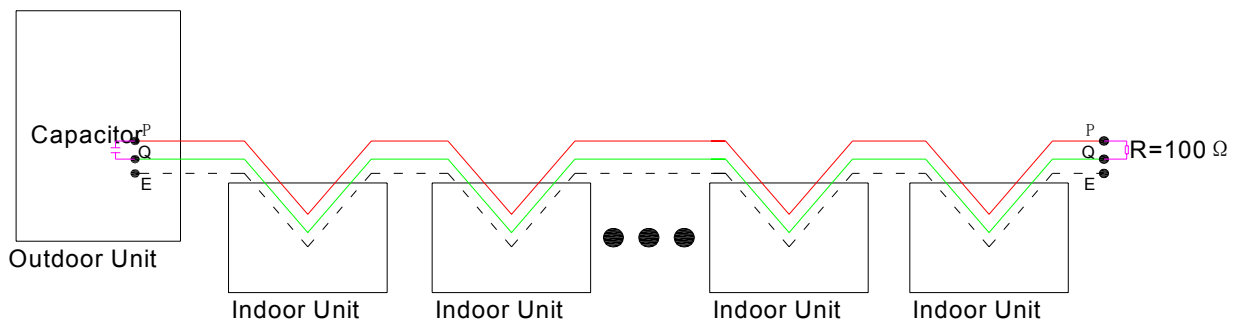
If the indicator is flashing, add 16 to the original calculated code, for example: After pressing and holding for 5 seconds, "Operation" light and "Alarm" light is flashing, which indicates that the address code is  $16 + (8 + 1) = 25$ .)

After pressing and holding for 10 seconds, "Operation" light and "Alarm" light is constant-on, which indicates that the address code is  $(4 + 1) = 5$ ; indicating the capacity of this unit is  $71 \times 100W$  (2.5 HP).

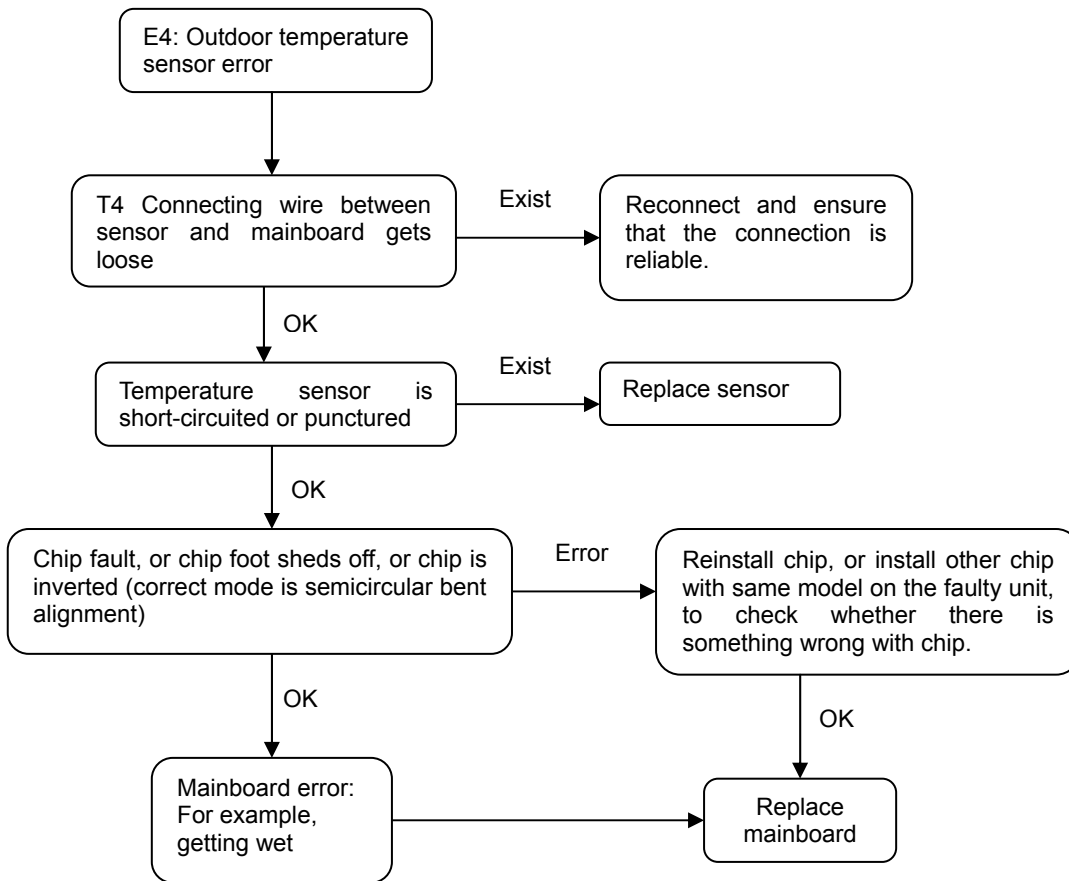


2. If the signal is weak, connect 100 Ω resistor between terminal P and Q on the end indoor unit in serial, or connect a small capacitor between terminal P and Q on outdoor unit in serial (as follows).

Signal wire must be shielded wire; indoor units must be connected in serial. At the end, connect a resistor on indoor unit or a capacitor between P and Q on outdoor unit.



**E4: Outdoor temperature sensor error**



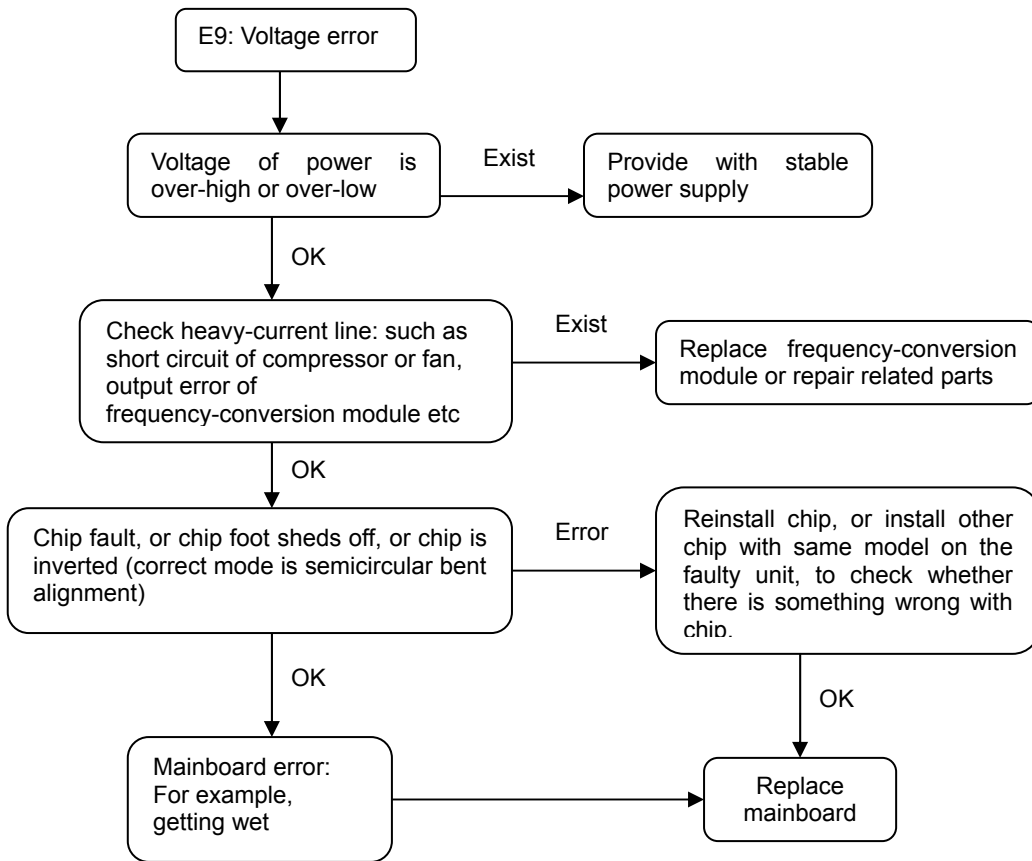
**Case:** There is no display on PCB of one system, and the problem still exists after replacing mainboard. Voltage values on measuring plate (such as 220V, 5V, 12V, etc) are normal; after measuring resistance value of sensor, find that T4 thermo-bulb is earth-continuity, and further discover that the thermal cable of T4 sensor is punched by bolt, as follows:



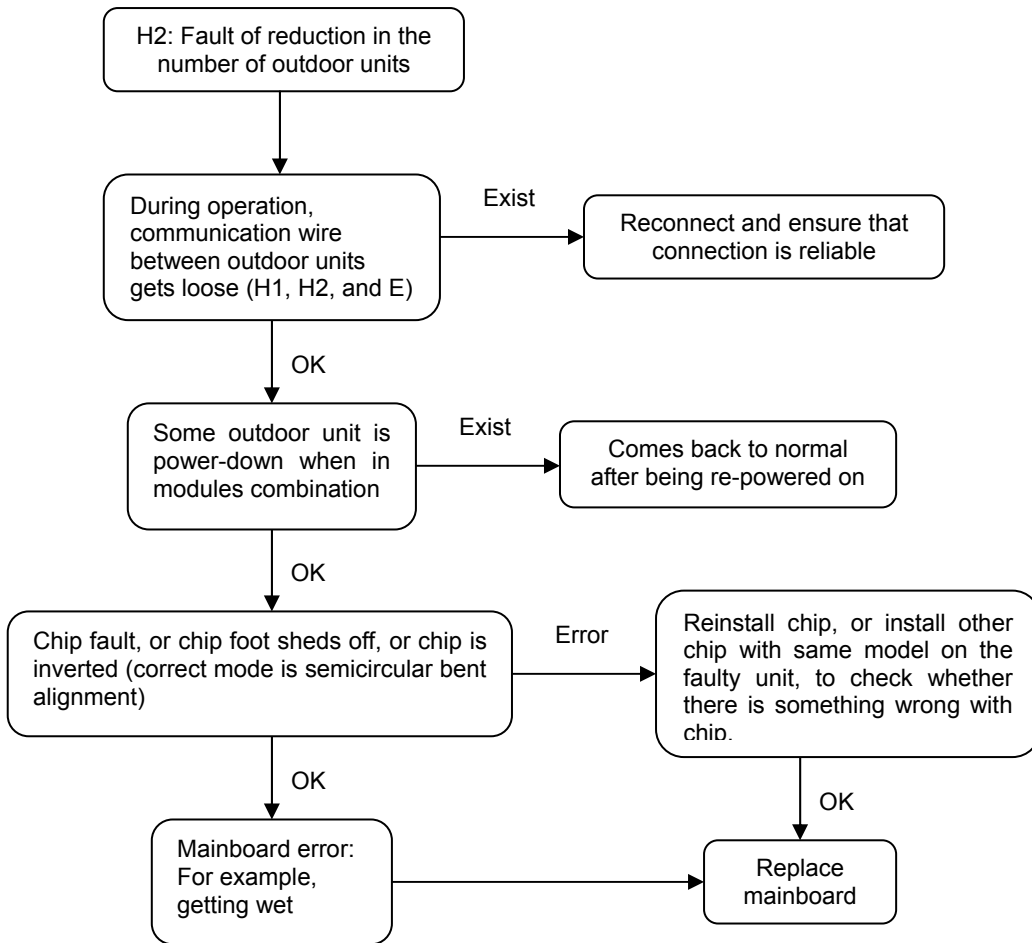
Sensor wire T4 is worn out and connected with sheet metal

After being reconnected, the system becomes normal

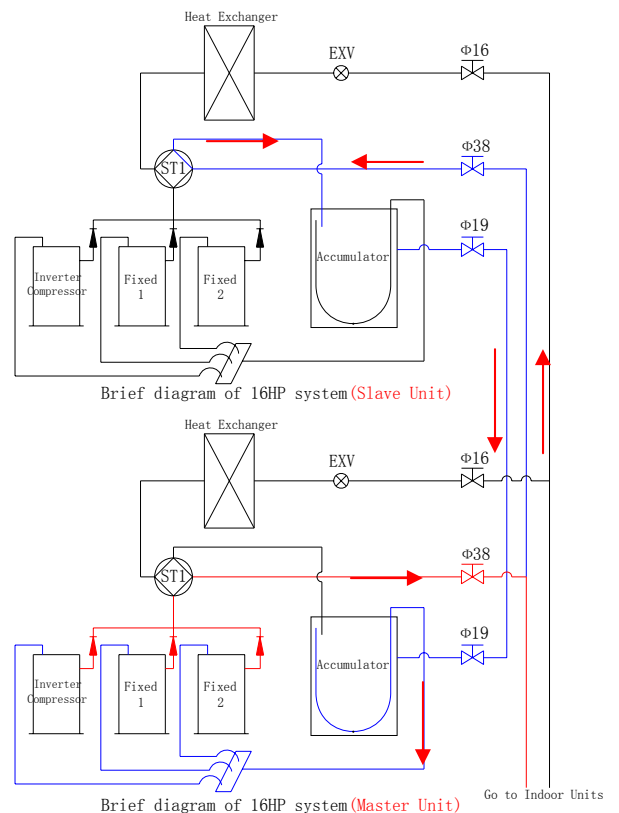
**E9: Voltage error**



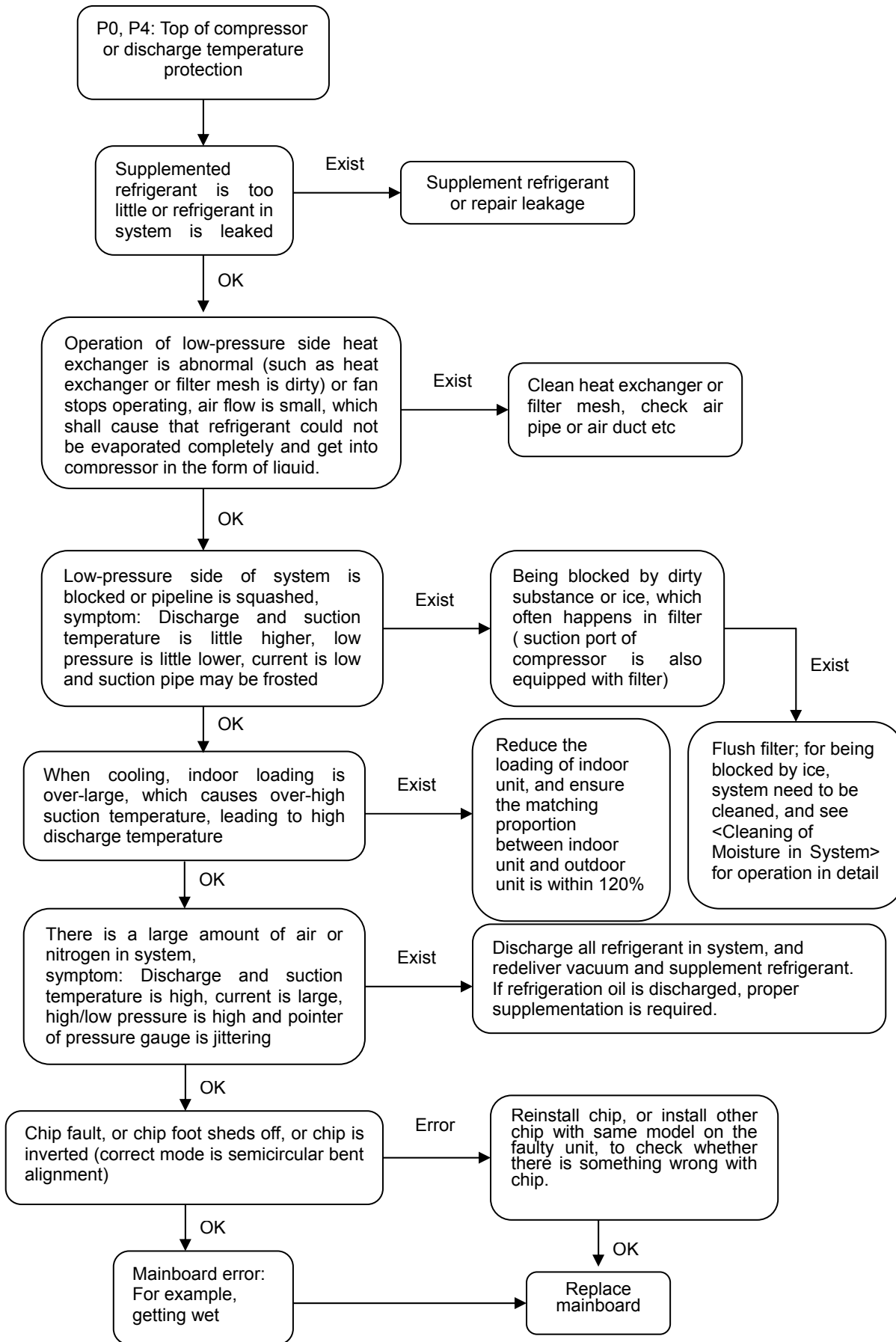
**H2: Fault of Reduction in the Number of Outdoor Units**



Note: For modules combination, slave unit shall not be started up due to power failure of one slave unit, damage of PCB or no communication between master unit and slave unit. Then under heating mode, the high-pressure gas discharged from gas pipe of master unit goes through gas pipe of slave unit, accumulator of slave unit, gas balance pipe, accumulator of master unit and then comes back to the suction pipe of compressors of master unit (as shown in blue solid line of right figure); That is equal to the high-temperature & high-pressure refrigerant after being discharged by master unit directly comes back to the suction side of compressor, which shall lead to the over-loading operation of compressors of master unit and even being burned out.



**P0, P4: Temperature Protection for Top of Compressor or Discharge Temperature Protection (P0 refers to inverter compressor protection)**

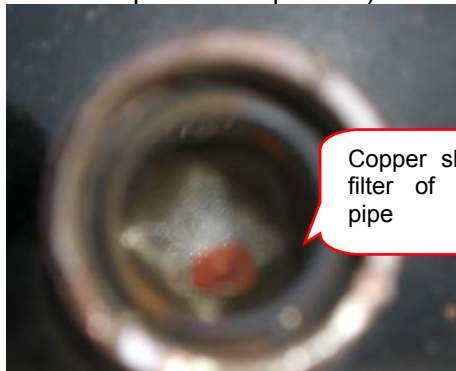




**Case:**

For V4 system, most feedback from market is that P4 protection is very usual, and its ultimate reason lies in lack of gas suction of compressor or no gas suction. To sum up, there are the following four reasons:

- 1) System is short of refrigerant.  
Symptom: Top temperature of all compressors and discharge temperature is higher, suction pipe may be frosted, high and low pressure is low, and current is low.  
Solution: Supplement refrigerant.
- 2) Filter mesh of suction pipe of one compressor is blocked by dirty substance.  
Symptom: Top temperature of the compressor is too high and P4 protection happens, but discharge temperature maybe not high, top temperature of other one or several compressors is very low. The reason is that this compressor in fault could not suck in refrigerant, which makes that the refrigerant flows into other compressors, leading to over-large air suction capacity of other compressors.  
Solution: Take out the filter mesh of suction pipe of the compressor in fault, and clean (located in suction port of compressor, and belongs to self-contained part of compressor).

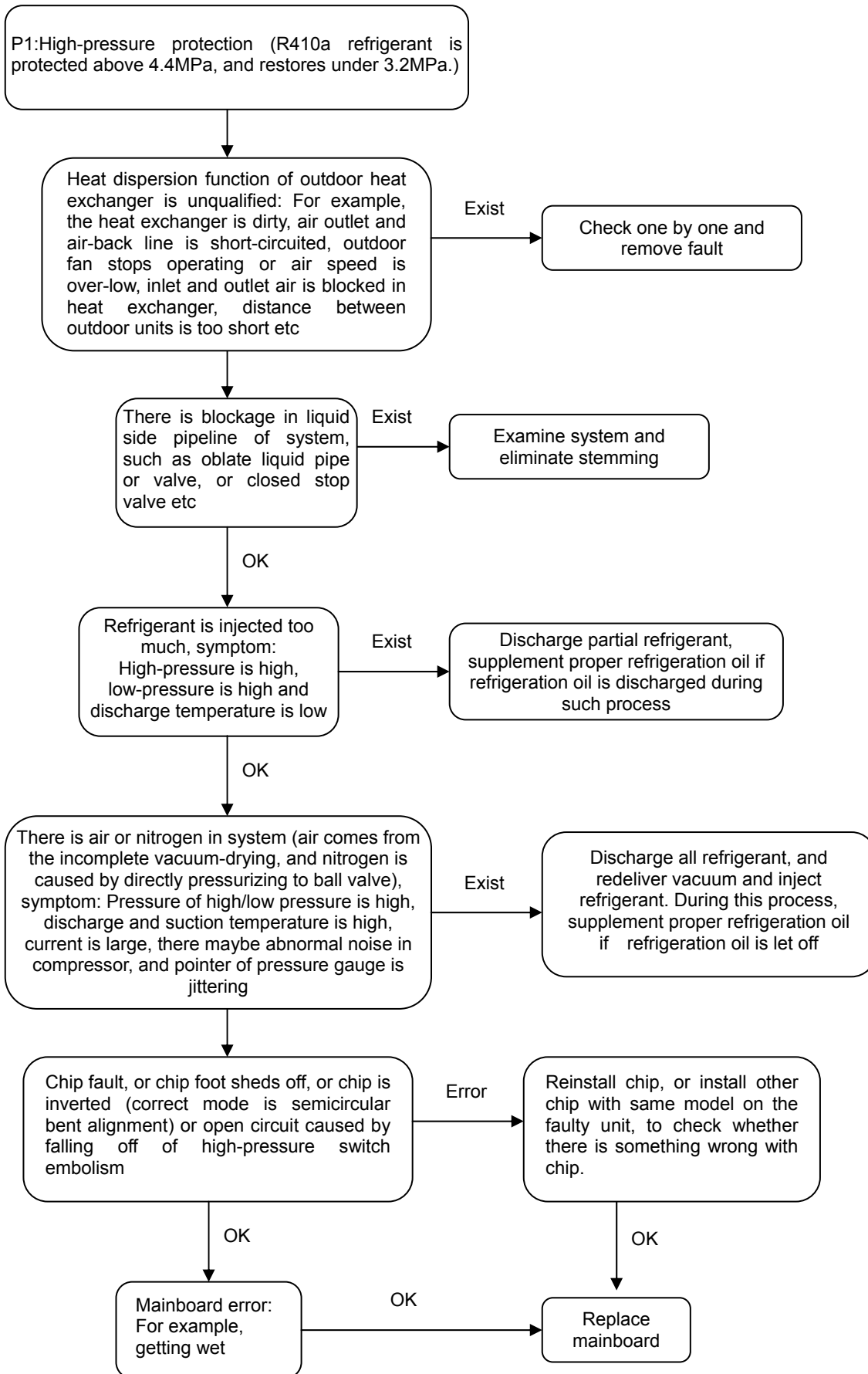


Oxide scales and other impurity in filter of suction pipe

Copper sheet in filter of suction pipe

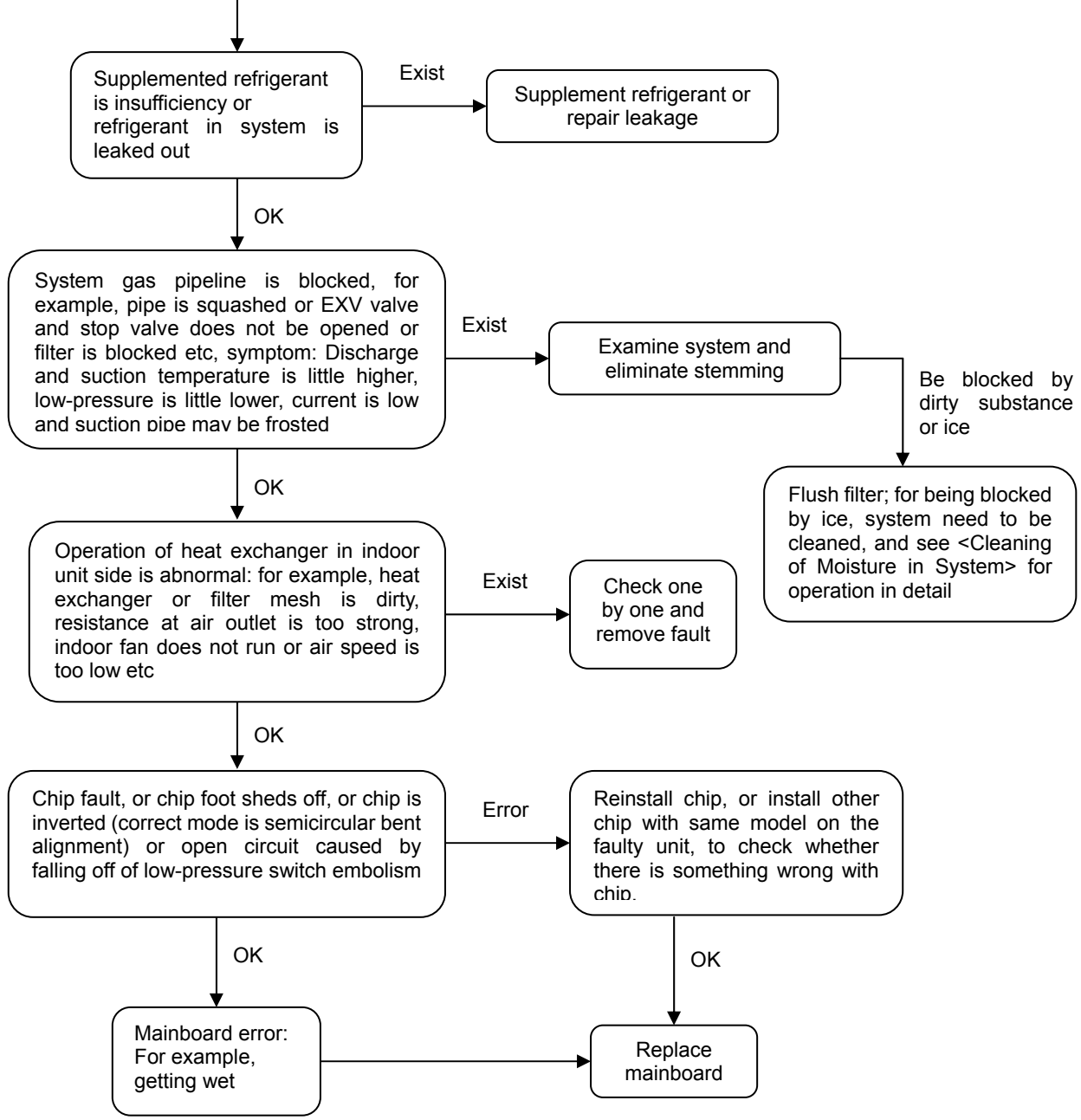
- 3) Filter mesh in general suction pipe of outdoor unit is blocked.  
Symptom: Top temperature of all compressors is over-high, while discharged air almost has no temperature and pressure, and could not push four-way valve to change direction when heating; pressure at two stop valves of gas and liquid pipe is basically identical; Suction pipe is frosted completely after passing through filter.  
Solution: If it is blocked buy dirty substance, just clean filter mesh of general air return pipe; if it is blocked by ice, use a filter to eliminate moisture in system.
- 4) Filter mesh of air return pipe of one compressor is blocked by ice.  
Symptom: Top temperature of the compressor is too high and P4 protection happens, but discharge temperature is not high, top temperature of other one or several compressors is very low. After being restarted, moisture may move to the filter mesh of another compressor, causing P4 protection.  
Solution: Make use of filter to eliminate moisture in system (see <Cleaning of System Moisture>).

**P1: High-pressure Protection**

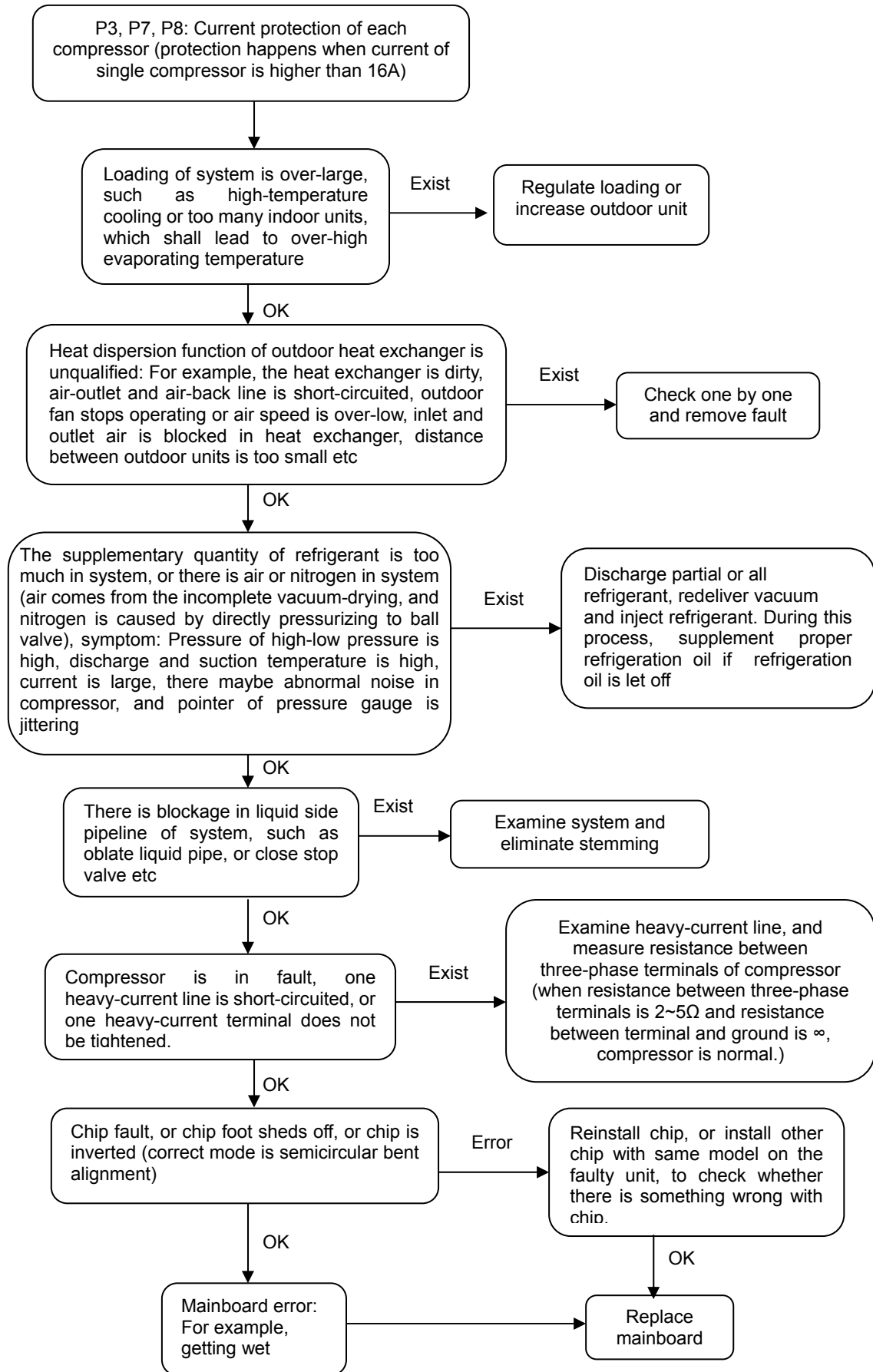


**P2: Low-pressure Protection**

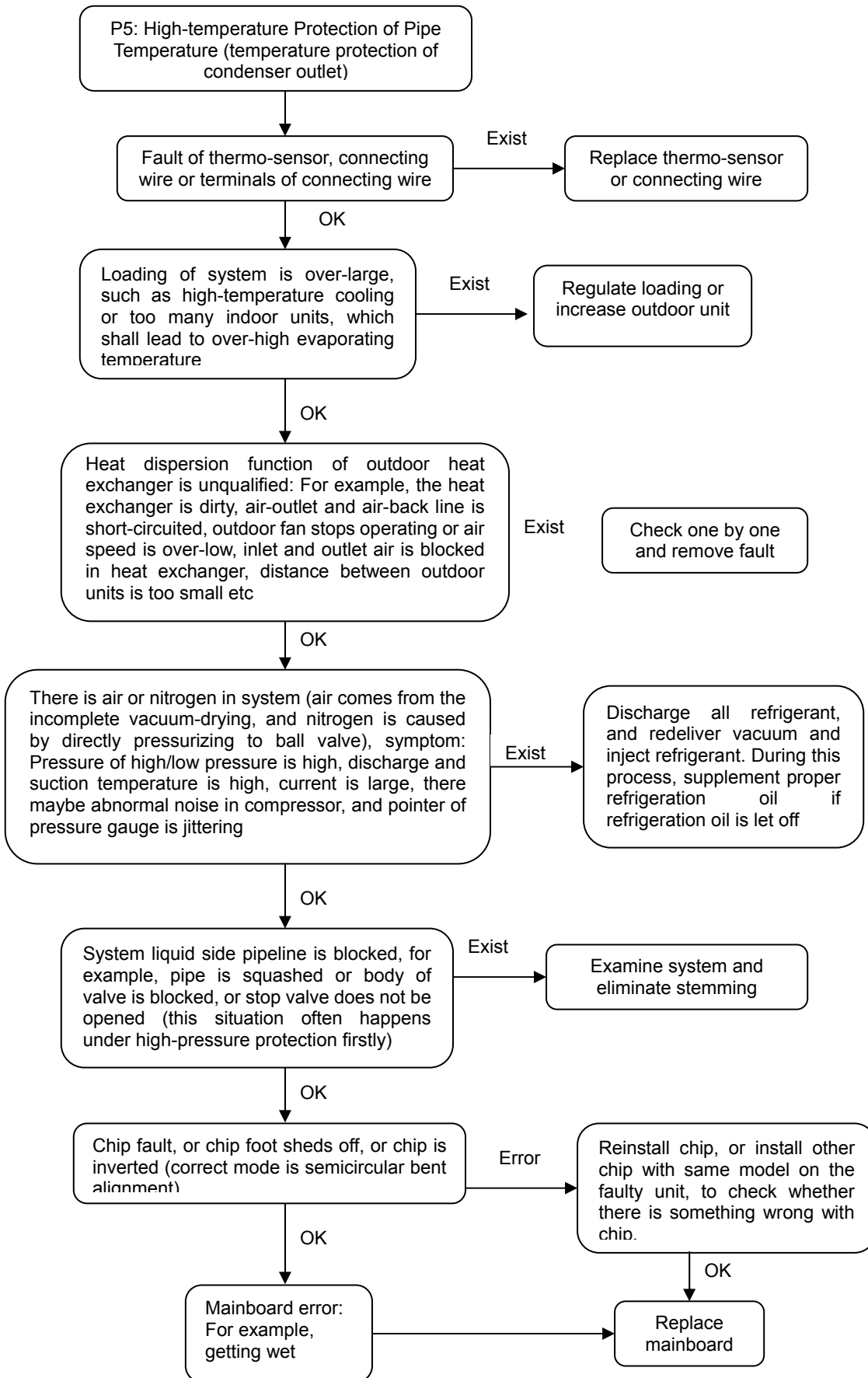
P2: Low-pressure protection (R410a refrigerant is protected under 0.05MPa, and restored above 0.15MPa (another one is protected under 0.14MPa, and restored above 0.3MPa).



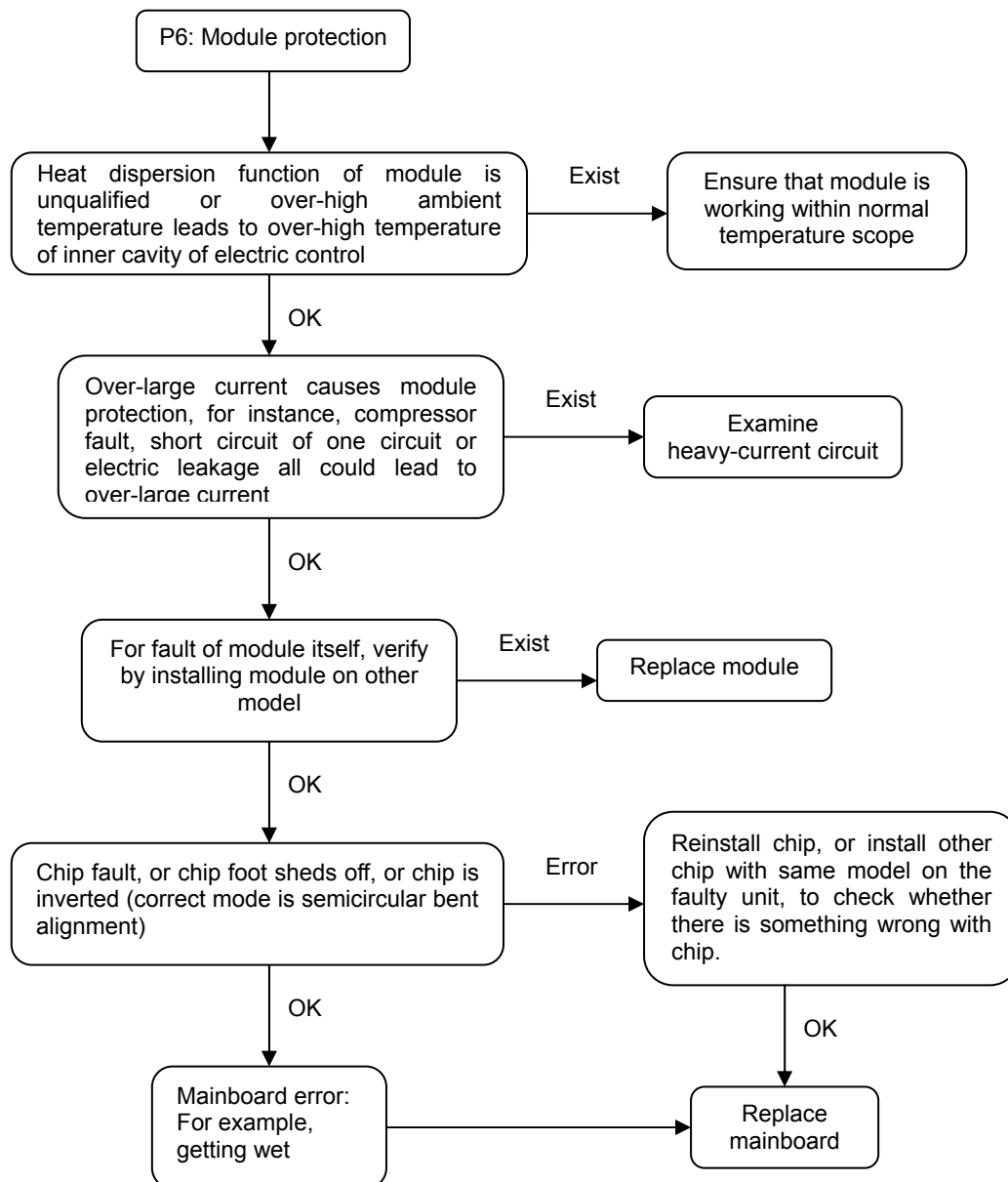
**P3, P7, P8: Current Protection of Each Compressor**



**P5: High-temperature Protection of Pipe Temperature**



**P6: Inverter module protection**



**Note:**

- ①. Other protection: such as H0 (communication error between DSP and 780034), H1 (communication error between 9177 and 780034). General solution is to replace PCB plate.
- ②. H3 (Fault of Increase in the Number of Outdoor Units): This fault can resume itself after 3 minutes.

### 13. Accessories

No	Name	Quantity	Purpose
1	Installation manual of outdoor unit	1	/
2	Operation manual of outdoor unit	1	(Be sure to deliver it to the customer)
3	Operation manual of indoor unit	2+2	(Be sure to deliver it to the customer)
4	User service guide (containing a warranty card and a bar code)	1	(Be sure to deliver it to the customer)
5	Accessory screw bag	1	For use in maintenance
6	Toggling flathead screw	1	For toggling of indoor and outdoor units
7	Gauge point subassembly	1	For purpose of airtight test
8	90 Mouting elbow	2	For connecting pipes
9	Seal plug	4×2	/