TRUST
Air Conditioners

INVERTER VRF SYSTEM
(V SERIES)

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

Shiraz- May 2017

General Information

توجه:

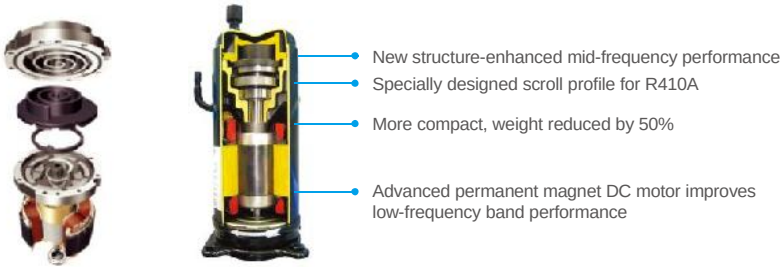
شرکت تراست حق تغییر مشخصات دستگاه ها را در جهت بهبود و ارتقای کیفیت برای خود محفوظ می دارد.

1. Features

1.1 Energy saving

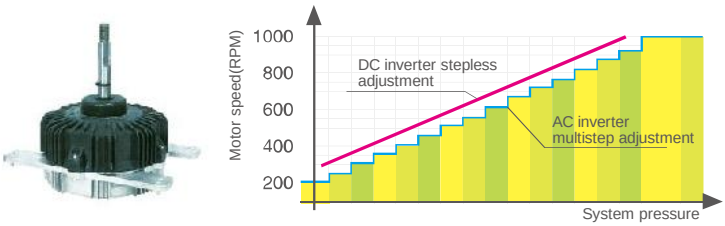
V4+ realized the industry's top class energy efficiency by adoption of brushless reluctance DC compressor control，DC Fan motor and improved heat exchanger.

1.1.1 High efficiency DC inverter compressor

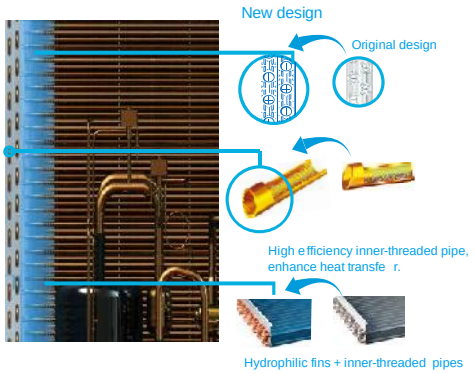


1.1.2 High efficiency DC fan motor

According to the running load and system pressure, the system controls the speed of DC fan to achieve the minimum energy consumption and best performance.



1.1.3 High efficiency heat exchanger



The new designed window fins enlarge the heat-exchanging area, decrease the air resistance, save more power and enhance heat exchange performance.

Hydrophilic film fins and inner-threaded copper pipes optimize heat exchange efficiency.

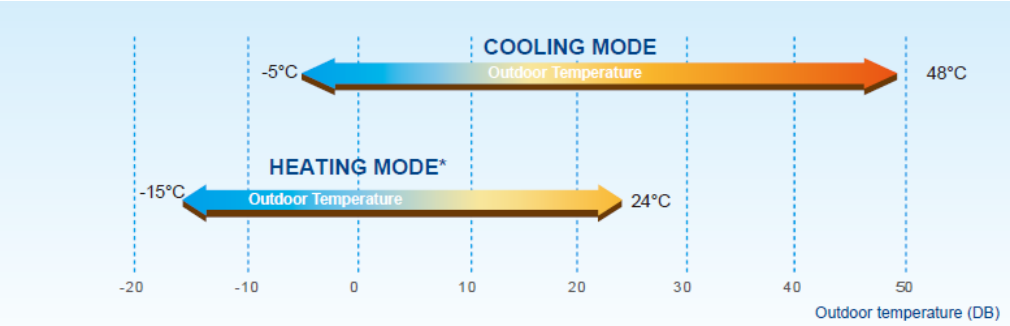
1.2 Flexible design

1.2.1 Wide capacity range

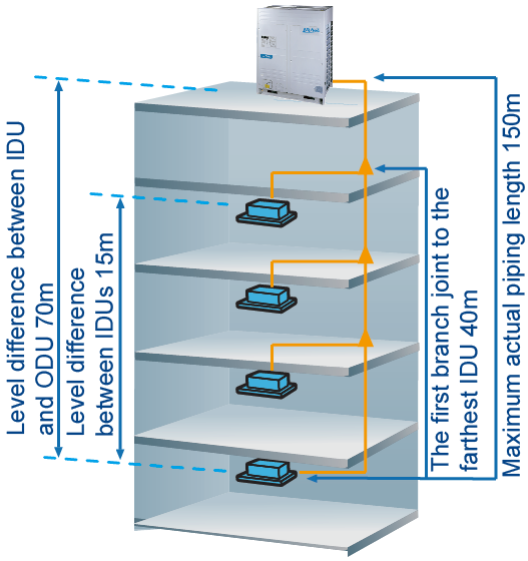
The outdoor units capacity range from 8HP to 64HP in 2HP increment. Maximum 64 indoor units with capacity up to 130% of total outdoor units can be connected in one refrigeration system.

1.2.2 Wide operation range

The V4 Plus series system operates stably at extreme temperatures ranging from minus 15°C to 48°C.



1.2.3 Flexible piping design



Piping length		Permitted value (m)
Total pipe length	≤30HP	350
	>30HP	500
Max. actual pipe length		150
Max. equivalent pipe length		175
Equivalent pipe length from the first indoor branch to the farthest indoor unit		40
Level difference between outdoor unit and indoor unit		Outdoor unit is down: 70 Outdoor unit is up: 70*
Level difference between indoor units		15

*Level difference above 50m is not supported by default but is available on request for customized.

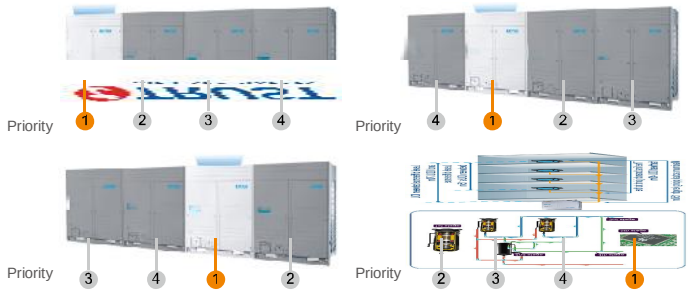
1.2.4 High external static pressure

High-static pressure propeller and optimized fan guard can adapt to various installation environments. TRUST now offers up to 60Pa* external static pressure for customized applications (* 60 Pa is available for the 12HP model; 40Pa is available for other models). A standard 0-20Pa function is equipped by default.

1.3 High reliability

1.3.1 Cycle duty operation

In one combination, any outdoor unit can run as the master outdoor unit to equalize the service life of all units.



1.3.2 Back-up function

In a multiple system, when the master unit failed, any single unit can be set as the master unit, and then the remaining units can keep on working. This can be set on PCB by DIP switch at site.

1.3.3 Precise oil control technology

5 stage oil control technology ensures every outdoor unit & compressor's oil always keep in the safe level, completely solve the compressor oil lack problem.

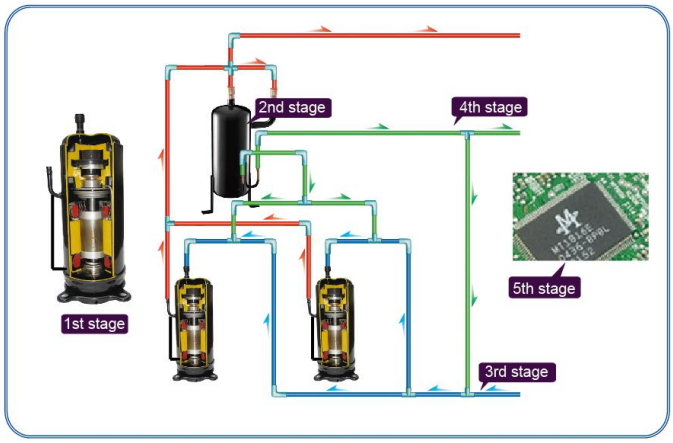
1st stage: compressor internal oil separate

2nd stage: high efficiency oil separator (separation efficiency up to 99%)

3rd stage: oil balance technology between compressors

4th stage: oil balance technology between modules

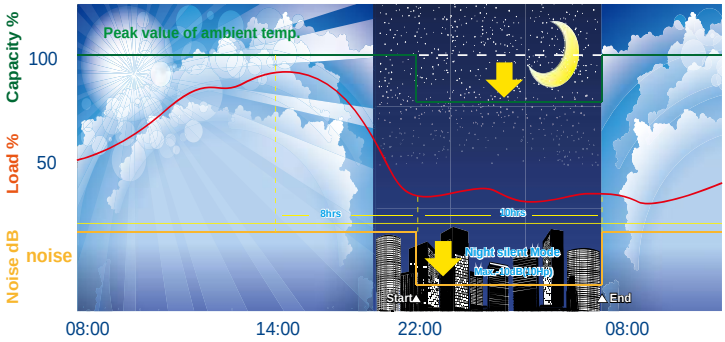
5th stage: intelligent system oil return program



1.4 Enhanced comfort

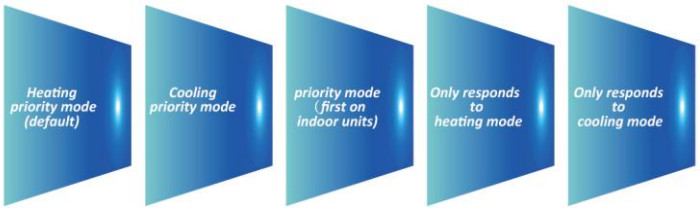
1.4.1 Night silent operation mode

TRUST's Night Silent Mode feature which is easily set on the PCB board allows the unit to be set to vary time options during Non-Peak and Peak operation time optimizing the units noise output.



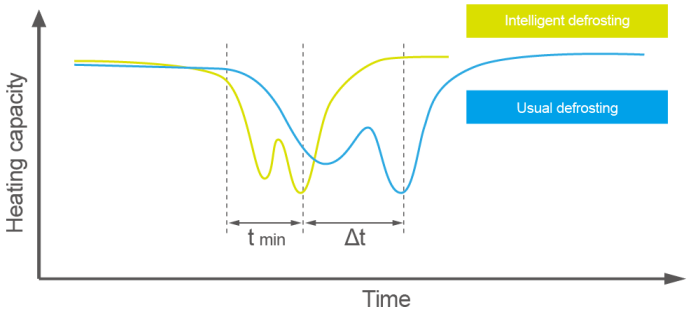
1.4.2 Five priority mode lock function

Heating priority mode; Cooling priority mode; First on indoor units priority mode; Heating only priority mode; cooling only priority mode.



1.4.3 Intelligent defrosting technology

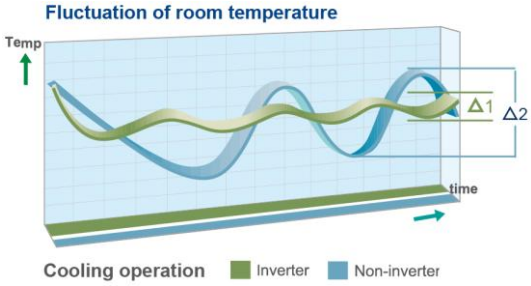
Intelligent defrosting program to judge the defrosting time according to the system real requirement, reduce the heating loss by unnecessary defrosting and make the indoor side more comfortable. Every time defrosting last only 4 minutes due to the use of specialized defrosting valve.



1.4.4 Quick warm-up & cool-down design and less temperature fluctuation

By utilizing the benefits of the DC inverter compressor, the system can reach full load quickly and shorten the warm-up and cool-down times to provide an immediate and comfortable air solution.

Less temperature fluctuation will create a better living environment.



1.5 Convenient installation & maintenance

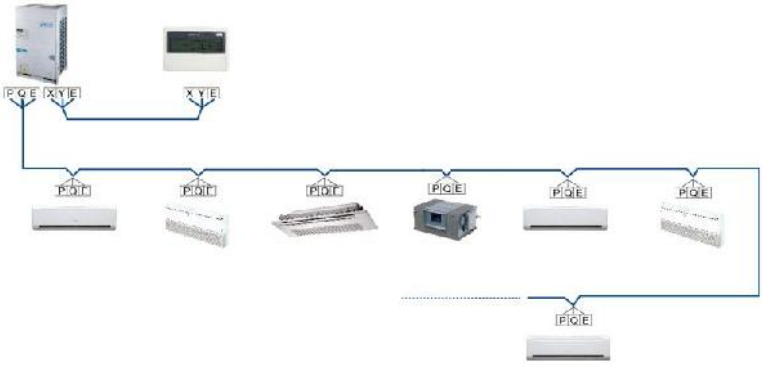
1.5.1 Auto addressing

Outdoor unit can distribute address for each indoor unit automatically.

Wireless and wired controllers can enquire and modify each indoor unit's address.

1.5.2 Simple communication wiring

Centralized controller (CCM03) can connect from indoor side or outdoor side (XYE terminals) at will. With one group of wires, we can realize the network communication and system communication. Such simple wiring is more convenient for installation work at site.



1.5.3 Convenient inspection window & 3 bits LED digital tube display

The check window reserved on electric control box provides a convenient spot checking and status enquiry. With the 3 bits digital tube LED display, it is very convenient to show the data of the system, such as pressure, compressor frequency, error code, discharge temperature etc., which can make the maintenance, installation and commissioning easier.

1.5.4 Professional structure design

Compressor is near the outside, and there is sample pipe system for convenient maintenance.

2. Outdoor units

● Outdoor units line up

The capacity range of outdoor units is from 8HP up to 64HP in 2HP increment. Maximum 64 indoor units with capacity up to 130% of total outdoor units can be connected as one refrigeration system.

● Combination table

Capacity (HP)	Recommend combination	Max. indoor units num.		Capacity (HP)	Recommend combination	Max. indoor units num.
8	8HP×1	17		38	10HP+12HP+16HP	64
10	10HP×1	21		40	10HP+14HP+16HP	64
12	12HP×1	26		42	14HP×3	64
14	14HP×1	30		44	14HP×2+16HP	64
16	16HP×1	34		46	14HP+16HP×2	64
18	8HP+10HP	39		48	16HP×3	64
20	10HP+10HP	43		50	8HP+10HP+16HP×2	64
22	10HP+12HP	47		52	10HP×2+16HP×2	64
24	10HP+14HP	52		54	10HP+12HP+16HP×2	64
26	10HP+16HP	56		56	10HP+14HP+16HP×2	64
28	14HP×2	60		58	14HP×3+16HP	64
30	14HP+16HP	64		60	14HP×2+16HP×2	64
32	16HP×2	64		62	14HP+16HP×3	64
34	10HP×2+14HP	64		64	16HP×4	64
36	10HP×2+16HP	64				

3. Indoor units lineup

Capacity (×100W)	Cassette type				
	One-way cassette		Two-way cassette	Compact four-way cassette	Four-way cassette
					
15				•	
18	•				
22	•		•	•	
28	•		•	•	•
36	•		•	•	•
45		•	•	•	•
56		•	•		•
71		•	•		•
80					•
90					•
100					•
112					•
140					•

Capacity (×100W)	Duct type					
	Low static pressure duct	Medium static pressure duct	High static pressure duct			
						
15		•				
18	•					
22	•	•				
28	•	•				
36	•	•				
45	•	•				
56	•	•				
71		•	•			
80		•	•			
90		•	•			
100						
112		•	•			
140		•		•		
160				•		
200					•	
250					•	
280					•	
400						•
450						•
560						•

Indoor units lineup

Capacity (×100W)	Floor-standing/Ceiling & Floor/Console			
	Cased floor-standing	Uncased floor-standing	Ceiling & floor	console
				
22	•	•		•
28	•	•		•
36	•	•	•	•
45	•	•	•	•
56	•	•	•	
71	•	•	•	
80	•	•	•	
90			•	
112			•	
140			•	
160			•	

Capacity (×100W)	Wall mounted/Fresh air processing unit					
	Wall mounted (S panel)	Wall mounted (C panel)	Wall mounted (D panel)	Wall mounted (R panel)	Fresh air processing unit	
						
15	•					
22	•	•	•			
28	•	•	•			
36	•	•	•			
45	•	•	•			
56	•	•	•			
71			•	•		
80				•		
90				•		
125					•	
140					•	
200						•
250						•
280						•

Note:

Due to continuous improvement, specifications are subject to change without prior notice.

Selection Procedure

1 Introduction

1.1 Model Selection Procedure

- Select the model and calculate the capacity for each refrigerant system according to the procedure shown below.
  Calculation of the indoor air-conditioning load, calculate the maximum air-conditioning load for each room or zone.
- Selection of an air conditioning system
  Select the ideal air conditioning system for air conditioning of each room or zone
- Design of the control system
  Design a suitable control system for the selected air conditioning system
- Preliminary selection of indoor and outdoor units
  Make preliminary selections that are within the allowable range for the system
- Check of the tubing length and elevation difference
  Check that the length of refrigerant tubing and the elevation difference are within the allowable ranges
- Calculation of the corrected outdoor unit capacity
  Capacity correction coefficient for model, outdoor temperature conditions, tubing length and elevation difference
- Calculation of the actual capacity for each indoor unit
  Calculate the corrected indoor/outdoor capacity ratio, based on the corrected outdoor unit capacity and the total corrected capacity of all indoor units in the same system
- Recheck of the actual capacity for each indoor unit

  If the capacity is inadequate, reexamine the unit combinations.

1.2 Indoor Unit Selection

Enter INDOOR UNIT CAPACITY TABLES at given indoor and outdoor temperature. Select the unit that the capacity is the nearest to and larger than the given load.

Note:
Individual indoor unit capacity is subject to change by the combination. Actual capacity has to be calculated according to the combination by using outdoor unit capacity table.

1.2.1Calculation of Actual Capacity of Indoor Unit

Because the capacity of a multi air-conditioner changes according to the temperature conditions, tubing length, elevation difference and other factors, select the correct model after taking into account the various correction values. When selecting the model, calculate the corrected capacities of the outdoor unit and each indoor unit. Use the corrected outdoor unit capacity and the total corrected capacity of all the indoor units to calculate the actual final capacity of each indoor unit.

Find the indoor unit capacity correction coefficient for the following items

- Capacity correction for the indoor unit temperature conditions

  From the graph of capacity characteristics, use the indoor temperature to find the capacity correction coefficient.
- Capacity distribution ratio based on the indoor unit tubing length and elevation difference.

First, in the same way as for the outdoor unit, use the tubing length and elevation difference for each indoor unit to find the correction coefficient from the graph of capacity change characteristics

Capacity distribution ratio for each indoor unit = Correction coefficient for that indoor unit / Correction coefficient for the outdoor unit

1.3 Outdoor Unit Selection

Allowable combinations are indicated in INDOOR UNIT COMBINATION TOTAL CAPACITY INDEX TABLE.

In general, outdoor unit can be selected as follows though the location of the unit, zoning and usage of the rooms may be considered.

The indoor and outdoor unit combination is determined that the sum of indoor unit capacity index is nearest to and smaller than the capacity index at 100% combination ratio of each outdoor unit. Up to 17~34 indoor units can be connected to one outdoor unit. It is recommended to choose a larger outdoor unit if the installation space is large enough.

If the combination ratio is greater than 100%, the indoor unit selection shall be reviewed by using actual capacity of each indoor unit.

INDOOR UNIT COMBINATION TOTAL CAPACITY INDEX TABLE

Outdoor Unit		Indoor Unit Combination Ratio (kW)							
	130%	120%	110%	100%	90%	80%	70%	60%	50%
8HP	32.8	30.2	27.7	25.2	22.7	20.1	17.6	15.1	12.6
10HP	36.4	33.6	30.8	28.0	25.2	22.4	19.6	16.8	14.0
12HP	43.6	40.2	36.9	33.5	30.2	26.8	23.5	20.2	16.8
14HP	52.0	48.0	44.0	40.0	36.0	32.0	28.0	24.0	20.0
16HP	58.5	54.0	49.5	45.0	40.5	36.0	31.5	27.0	22.5
18HP	69.2	63.8	58.5	53.2	47.9	42.6	37.2	31.9	26.6
20HP	72.8	67.2	61.6	56.0	50.4	44.8	39.2	33.6	28.0
22HP	80.0	73.8	67.7	61.5	55.4	49.2	43.1	36.9	30.8
24HP	88.4	81.6	74.8	68.0	61.2	54.4	47.6	40.8	34.0
26HP	94.9	87.6	80.3	73.0	65.7	58.4	51.1	43.8	36.5
28HP	104	96	88	80	72	64	56	48	40
30HP	110.5	102.0	93.5	85.0	76.5	68.0	59.5	51.0	42.5
32HP	117.0	108.0	99.0	90.0	81.0	72.0	63.0	54.0	45.0
34HP	124.8	115.2	105.6	96.0	86.4	76.8	67.2	57.6	48.0
36HP	131.3	121.2	111.1	101.0	90.9	80.8	70.7	60.6	50.5
38HP	138.5	127.8	117.2	106.5	95.9	85.2	74.6	63.9	53.3
40HP	146.9	135.6	124.3	113.0	101.7	90.4	79.1	67.8	56.5
42HP	156	144	132	120	108	96	84	72	60
44HP	162.5	150	137.5	125	112.5	100	87.5	75	62.5
46HP	169.0	156.0	143.0	130.0	117.0	104.0	91.0	78.0	65.0
48HP	175.5	162.0	148.5	135.0	121.5	108.0	94.5	81.0	67.5
50HP	186.2	171.8	157.5	143.2	128.9	114.6	100.2	85.9	71.6
52HP	189.8	175.2	160.6	146.0	131.4	116.8	102.2	87.6	73.0
54HP	197.0	181.8	166.7	151.5	136.4	121.2	106.1	90.9	75.8
56HP	205.4	189.6	173.8	158.0	142.2	126.4	110.6	94.8	79.0
58HP	214.5	198	181.5	165	148.5	132	115.5	99	82.5
60HP	221	204	187	170	153	136	119	102	85
62HP	227.5	210.0	192.5	175.0	157.5	140.0	122.5	105.0	87.5
64HP	234.0	216.0	198.0	180.0	162.0	144.0	126.0	108.0	90.0

INDOOR UNIT CAPACITY INDEX

Unit Size	Model 15	Model 18	Model 22	Model 28	Model 36	Model 45	Model 56	Model 71	Model 80	Model 90
Capacity Index (kW)	1.5	1.8	2.2	2.8	3.6	4.5	5.6	7.1	8.0	9.0
Unit Size	Model 112	Model 140	Model 160	Model 200	Model 250	Model 280	Model 400	Model 450	Model 560	
Capacity Index (kW)	11.2	14.0	16	20	25	28	40	45	56	

1.3Actual Performance Data

Use OUTDOOR UNIT CAPACITY TABLES.

Determine correct table according to the outdoor unit model and combination ratio.

Enter the table at given indoor and outdoor temperature and find the outdoor unit capacity and power input. The individual indoor unit capacity (power input) can by calculated as follows.

IUC=OUC × INX/TNX

Where,

IUC: Each indoor unit capacity

OUC: Outdoor unit capacity

INX: Each indoor unit capacity index

TNX: Total capacity index

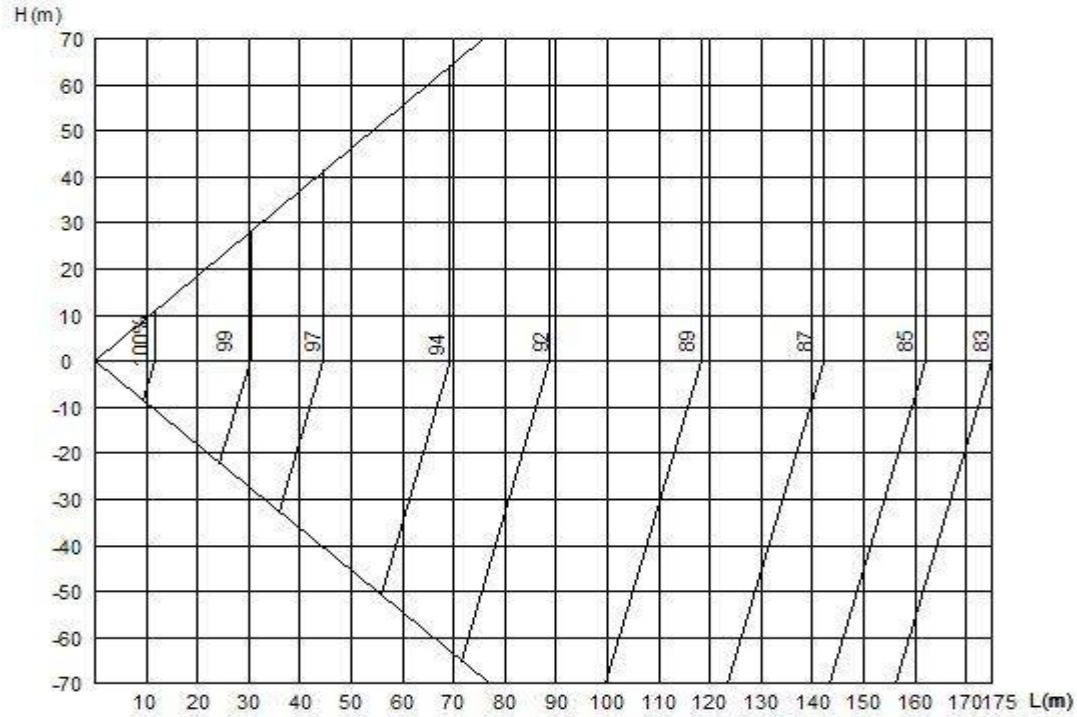
Then, correct the indoor unit capacity according to the piping length.

If the corrected capacity is smaller than the load, the size of indoor unit has to be increased and repeat the same selection procedure.

1.4 Variation in capacity in accordance with the length of refrigerant pipe

1.4.1Cooling capacity modification

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

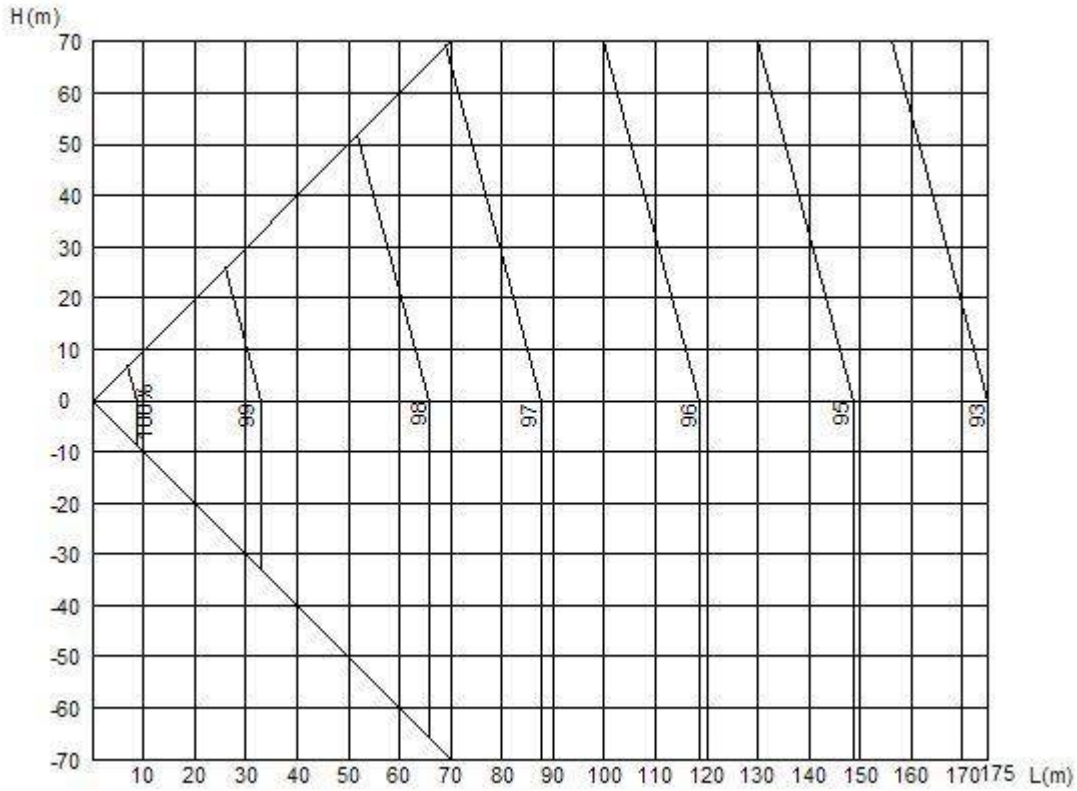


L: Refrigerant pipe equivalent length

H: Height difference between outdoor and indoor

1.4.2Heating capacity modification

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



L: Refrigerant pipe equivalent length

H: Height difference between outdoor and indoor

2 Unit selection (Based on cooling load)

2.1Given condition

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

2.1.2 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

2.1.3 Power supply: Outdoor 380~415V-3Ph-50Hz, Indoor 220~240V-1Ph-50Hz.
2.1.4 Pipe length: 50m
2.1.5 Height difference: 30m

2.2Indoor 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)	2.3	2.9	3.7	4.8	6.0	7.5

2.3 Outdoor unit selection

2.3.1 Assume the indoor unit and outdoor unit combination as follows

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

2.2 × 1 +2.8 × 1+ 3.6 × 1 +4.5 × 1+ 5.6 × 1 + 7.1 × 1 = 25.8kW

2.3.1.2 Select outdoor unit: 280(10) which has nominal cooling capacity: 28kW.

Calculate the proportion between ① and ②: 258/280= 92%

2.3.2Result : Because the proportion is within 50～130%, it is a "Right" selection.

2.3.3 Real function data with indoor unit combination

● For the 92% combination, calculate the cooling capacity of outdoor unit (280(10). 26.65KW ←90%

(Indoor temperature : **WB 20°C,** Outdoor temperature: **DB 35°C**)

29.61KW ←100%(Indoor temperature : **WB 20°C**, Outdoor temperature: **DB 35°C**)

Then calculated the outdoor capacity in 92% combination index:

Therefore: 26.65+ {(29.61-26.65)/ 10} ×2= 27.24;

● Outdoor unit 280(10) cooling temperature: DB 35°C

● Capacity modification coefficient with pipe length (50m) and height difference (30m): 0.958

● Each indoor unit cooling capacity

D22T2: 27.24 × 22/258 × 0.958 = 2.22(kW)

D28T2: 27.24 × 28/258 ×0.958 = 2.83 (kW)

D36T2: 27.24 × 36/258 ×0.958 = 3.64 (kW)

D45T2: 27.24 × 45/258 ×0.958 = 4.55 (kW)

D56T2: 27.24 × 56/258 ×0.958 = 5.66 (kW)

D71T2: 27.24 × 71/258 ×0.958 = 7.18 (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)	2.22	2.83	3.64	4.55	5.66	7.18

2.4 Conclusion

Generally, we think this result is acceptable, so we have accomplished the calculation. But if you consider this result is not acceptable, you can repeat the above process.

Remark: In this sample, we don't consider the other capacity modification index and assume 1.0 as them value.

For more details about the effect factor such as outside ambient/inside ambient DB/WD, please refer to the performance table of indoor and outdoor units.

Specification & Performance

1. Specifications

Model			TMVV4N **252(8)**	**TMVV4N 280(10)**	**TMVV4N 335(12)**
Power supply		V-Ph-Hz	380~415V 3Ph ~ 50Hz	380~415V 3Ph ~ 50Hz	380~415V 3Ph ~ 50Hz
Cooling (*1)	Capacity	W	25200	28000	33500
	Input	W	5874	7198	9054
	EER	W/W	4.29	3.89	3.7
Heating (*2)	Capacity	W	27000	31500	37500
	Input	W	6150	7608	8992
	COP	W/W	4.39	4.14	4.17
Max. input consumption		W	14500	14500	14500
Max. current		A	25	25	25
DC Inverter compressor	Model		E405DHD-36D2YG	E405DHD-36D2YG	E405DHD-36D2YG
	Quantities		1	1	1
	Type		DC Inverter	DC Inverter	DC Inverter
	Brand		Hitachi	Hitachi	Hitachi
	Capacity	W	11800	11800	11800
	Input	W	5100	5100	5100
	Power supply	V-Ph-Hz	380-415V~3Ph, 50Hz	380-415V~3Ph, 50Hz	380-415V~3Ph, 50Hz
	Operating frequency	Hz	60~180	60~180	60~180
	Crankcase	W	40～80	40～80	40～80
	Refrigerant oil	ml	FVC68D / 500	FVC68D / 500	FVC68D / 500
Fixed scroll compressor	Model		E605DH-59D2YG	E655DH-65D2YG(GC)	E655DH-65D2YG(GC)
	Quantities		1	1	1
	Type		Fixed scroll	Fixed scroll	Fixed scroll
	Brand		Hitachi	Hitachi	Hitachi
	Capacity	W	15390	17100	17100
	Input	W	5130	5740	5740
	Power supply	V-Ph-Hz	380-415V~3Ph, 50Hz	380-415V~3Ph, 50Hz	380-415V~3Ph, 50Hz
	Locked rotor ampere (LRA)	A	62	68	68
	Thermal protector type		Inner	Inner	Inner
	Crankcase	W	40～80	40～80	40～80
	Refrigerant oil	ml	FVC68D / 500	FVC68D / 500	FVC68D / 500
Outdoor fan motor	Model		WZDK560-38G	WZDK560-38G	WZDK450-38G
	Type		DC	DC	DC
	Brand		Panasonic	Panasonic	Panasonic
	Quantities		1	1	2
	Insulation class		E	E	E
	Safe class		IP23	IP23	IP23
	Output	W	420	420	360×2
	Rated current	A	4.4	4.4	3.4×2
	Speed	r/min	1000	1000	1170×2
Outdoor fan	Material		Plastic	Plastic	Plastic
	Type		Axial	Axial	Axial
	Fan Quantities		1	1	2
	Dimension(Diameter×H)	mm	700×202	700×202	560×189+562×162
	Vane Quantities		3	3	3+4

Outdoor coil	Number of rows		2	2	2
	Tube pitch(a)×row pitch(b)	mm	25.4×22	25.4×22	25.4×22
	Fin spacing	mm	1.6	1.6	1.6
	Fin type		Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum
	Tube outside diameter	mm	Φ7.94	Φ7.94	Φ7.94
	Tube type		Inner-grooved	Inner-grooved	Inner-grooved
	Coil length × height	mm	1924.5×1252.5	1924.5×1252.5	2661.5×1252.5
	Number of circuits		22	22	22
Outdoor air flow		m^3/h	11700	11700	15600
External static pressure		Pa	0~20 (default) 20~40 (customized)	0~20 (default) 20~40 (customized)	0~20 (default) 20~60 (customized)
Outdoor sound level(*3)		dB(A)	57	57	58
Outdoor unit	Dimension(W×H×D)	mm	960×1615×765	960×1615×765	1250×1615×765
	Packing (W×H×D)	mm	1025×1790×830	1025×1790×830	1305×1790×830
	Net/Gross weight	kg	245/260	245/260	285/305
Charged refrigerant type and volume		kg	R410A 10kg	R410A 10kg	R410A 12kg
Throttle type			EXV	EXV	EXV
Excessive operating pressure		MPa	4.4/2.6	4.4/2.6	4.4/2.6
Refrigerant piping	Liquid side/ Gas side*1	mm	Φ12.7/Φ22.2	Φ12.7/Φ25.4	Φ12.7/Φ28.6
	Oil balance pipe	mm	Φ6	Φ6	Φ6
	Total pipe length(≥30HP)	m	350	350	350
	Total pipe length(<30HP)	m	500	500	500
	Longest piping length (actual)	m	150	150	150
	Longest piping length (equivalent)	m	175	175	175
	Equivalent pipe length from the first indoor branch to the farthest IDU	m	40	40	40
	Level difference between IDU and ODU (ODU up)*2	m	70	70	70
	Level difference between IDU and ODU (ODU down)	m	70	70	70
	Level differene between IDUs	m	15	15	15
Ambient temp. range - Cooling		℃	-5℃－48℃	-5℃－48℃	-5℃－48℃
Ambient temp. range - Heating		℃	-15℃－24℃	-15℃－24℃	-15℃－24℃

Notes:

1. The normal cooling capacity is based on: indoor temp.: 27℃CDB, 19℃CWB; outdoor temp.: 35℃CDB; equivalent pipe length: 7.5m; level length: 0m.

2. The normal heating capacity is based on: indoor temp.: 20℃CDB, 15℃CWB; outdoor temp.: 7℃CDB; equivalent pipe length: 7.5m; drop length: 0m.

3. Sound level: Anechoic chamber conversion value, measured at a point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

5. The above data may be changed without notice for future improvement on quality and performance.

*1It's the dimension of connecting pipes between outdoor and first branch joint when the Max. Equivalent length of pipe is less than 90m.

*2Level difference above 50m is not supported by default but is available on request for customized.

Model			TMVV4N400(14)	TMVV4N450(16)
Power supply V-Ph-Hz			380~415V 3Ph ~ 50Hz	380~415V 3Ph ~ 50Hz
Cooling	Capacity	W	40000	45000
	Input	W	12307	14019
	EER	W/W	3.25	3.21
Heating	Capacity	W	45000	50000
	Input	W	11194	12788
	COP	W/W	4.02	3.91
Max. input consumption		W	20700	20700
Max. current		A	35	35
DC Inverter compressor	Model		E405DHD-36D2YG	E405DHD-36D2YG
	Quantities		1	1
	Type		DC Inverter	DC Inverter
	Brand		Hitachi	Hitachi
	Capacity	W	11800	11800
	Input	W	5100	5100
	Power supply	V-Ph-Hz	380-415V~3Ph, 50Hz	380-415V~3Ph, 50Hz
	Operating frequency	Hz	60~180	60~180
	Crankcase	W	40～80	40～80
	Refrigerant oil	ml	FVC68D / 500	FVC68D / 500
Fixed scroll compressor	Model		E605DH-59D2YG	E655DH-65D2YG(GC)
	Quantities		2	2
	Type		Fixed scroll	Fixed scroll
	Brand		Hitachi	Hitachi
	Capacity	W	15390×2	17100×2
	Input	W	5130×2	5740×2
	Power supply	V-Ph-Hz	380-415V~3Ph, 50Hz	380-415V~3Ph, 50Hz
	Locked rotor ampere (LRA)	A	62×2	68×2
	Thermal protector type		Inner	Inner
	Crankcase	W	(40～80)×2	(40～80)×2
	Refrigerant oil	ml	FVC68D / 500×2	FVC68D / 500×2
Outdoor fan motor	Model		WZDK450-38G	WZDK450-38G
	Type		DC Inverter	DC Inverter
	Brand		Panasonic	Panasonic
	Quantities		2	2
	Insulation class		E	E
	Safe class		IP23	IP23
	Output	W	360×2	360×2
	Rated current	A	3.4×2	3.4×2
	Speed	r/min	1170×2	1170×2
Outdoor fan	material		Plastic	Plastic
	Type		Axial	Axial
	Fan Quantities		2	2
	Dimension(Diameter×H)	mm	560*189+562*162	560*189+562*162
	Vane Quantities		3+4	3+4
Outdoor coil	Number of rows		2	2
	Tube pitch(a)× row pitch(b)	mm	25.4×22	25.4×22

	Fin spacing	mm	1.6	1.6
	Fin type		Hydrophilic aluminum	Hydrophilic aluminum
	Tube outside diameter	mm	Φ7.94	Φ7.94
	Tube type		Inner-grooved	Inner-grooved
	Coil length ×height	mm	2661.5×1252.5	2661.5×1252.5
	Number of circuits		22	22
Outdoor air flow		m^3/h	15600	15600
External static pressure		Pa	0~20 (default) 20~40 (customized)	0~20 (default) 20~40 (customized)
Outdoor sound level		dB(A)	60	60
Outdoor unit	Dimension(W×H×D)	mm	1250×1615×765	1250×1615×765
	Packing (W×H×D)	mm	1305×1790×830	1305×1790×830
	Net/Gross weight	Kg	325/355	325/355
Charged refrigerant type		kg	R410A 15kg	R410A 15kg
Throttle type			EXV	EXV
Excessive operating pressure		MPa	4.4/2.6	4.4/2.6
Refrigerant piping	Liquid side/ Gas side*[1]	mm	Φ15.9/Φ28.6	Φ15.9/Φ28.6
	Oil balance pipe	mm	Φ6	Φ6
	Total pipe length(≥30HP)	m	350	350
	Total pipe length(<30HP)	m	500	500
	Longest piping length (actual)	m	150	150
	Longest piping length (equivalent)	m	175	175
	Equivalent pipe length from the first indoor branch to the farthest IDU	m	40	40
	Level difference between IDU and ODU (ODU up)*[2]	m	70*	70*
	Level difference between IDU and ODU (ODU down)	m	70	70
	Level differene between IDUs	m	15	15
Ambient temp. range - Cooling		℃	-5℃－48℃	-5℃－48℃
Ambient temp. range - Heating		℃	-15℃－24℃	-15℃－24℃

Notes:

1. The normal cooling capacity is based on: indoor temp.: 27℃CDB, 19℃CWB; outdoor temp.: 35℃CDB; equivalent pipe length: 7.5m; level length: 0m.

2. The normal heating capacity is based on: indoor temp.: 20℃CDB, 15℃CWB; outdoor temp.: 7℃CDB; equivalent pipe length: 7.5m; drop length: 0m.

3. Sound level: Anechoic chamber conversion value, measured at a point 1m in front of the unit at a height of 1.3m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.

5. The above data may be changed without notice for future improvement on quality and performance.

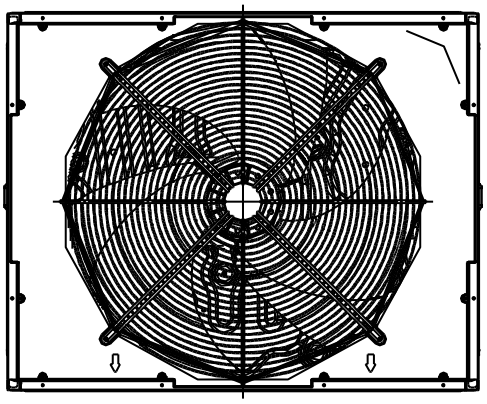
*[1]It's the dimension of connecting pipes between outdoor and first branch joint when the Max. Equivalent length of tubing is less than 90m.

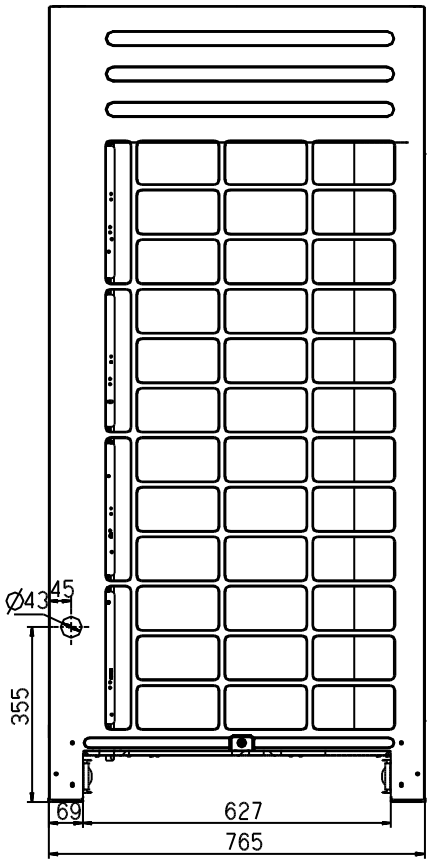
*[2]Level difference above 50m is not supported by default but is available on request for customized.

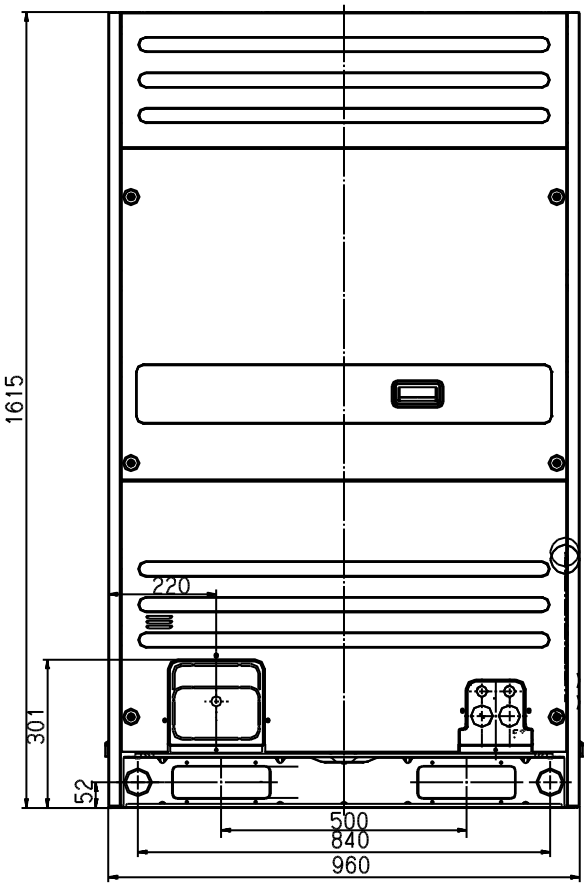
2. Dimensions

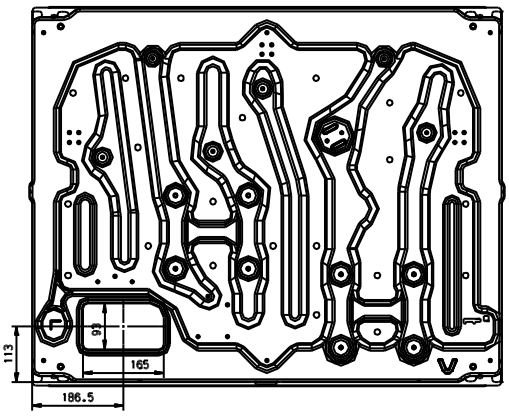
2.1 TMVV4N8HP/10HP

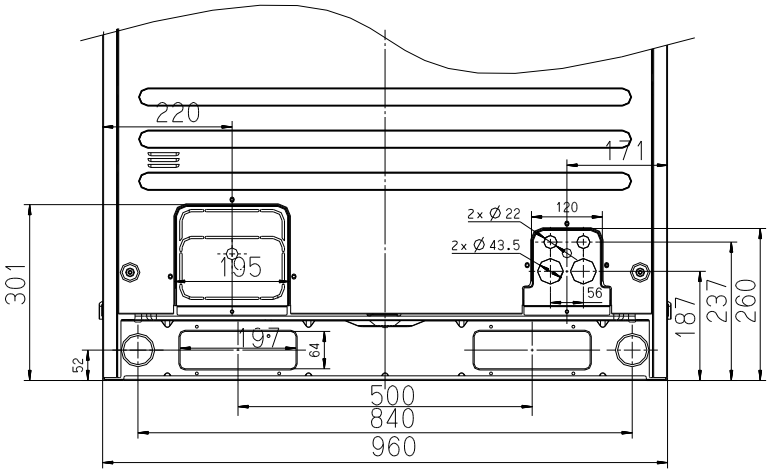
Dimensions:

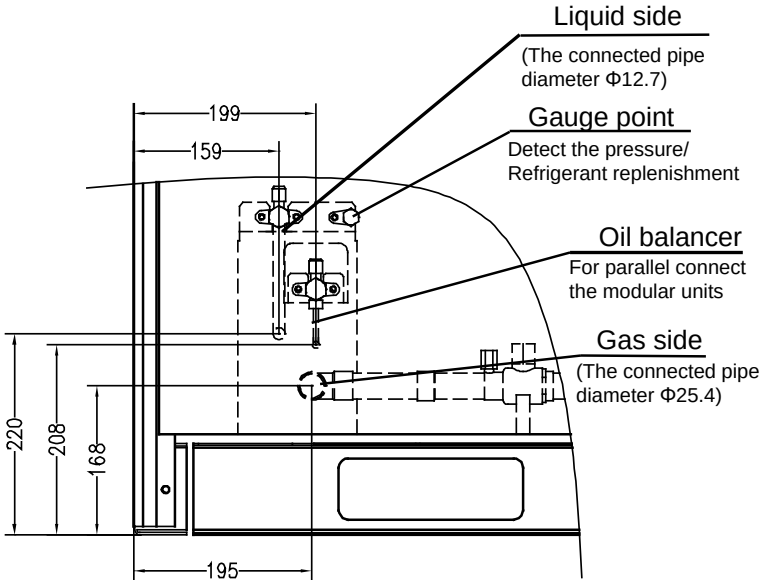




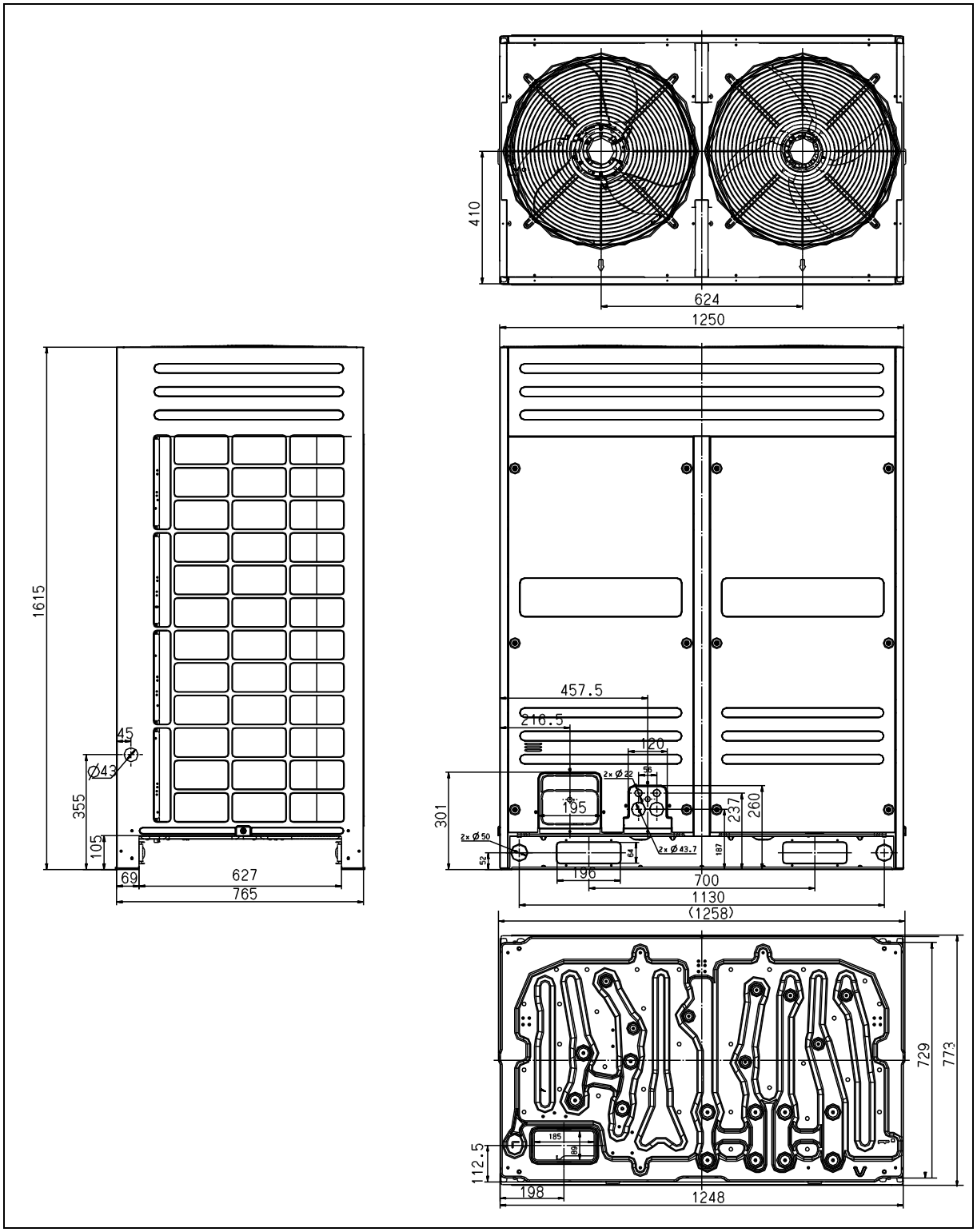


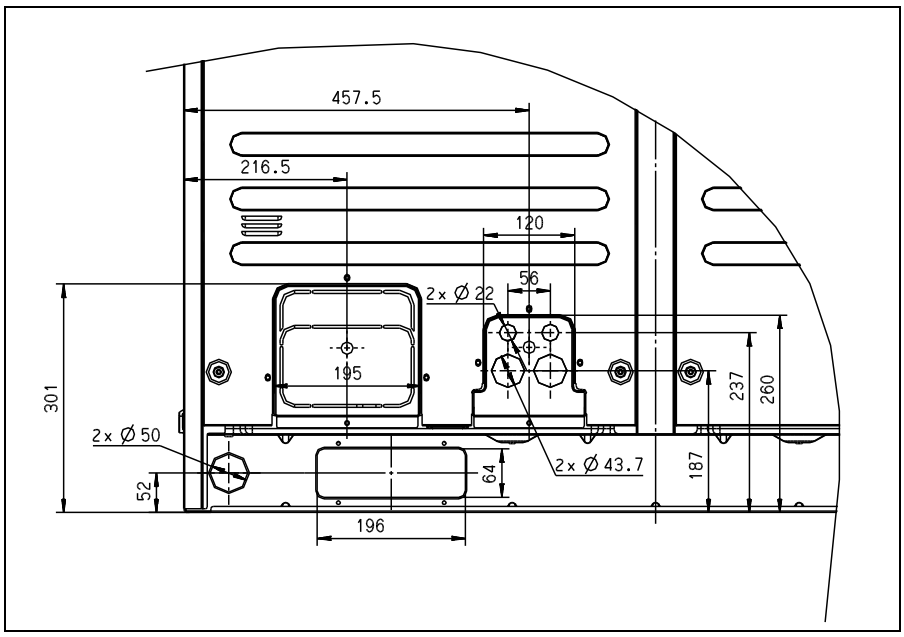


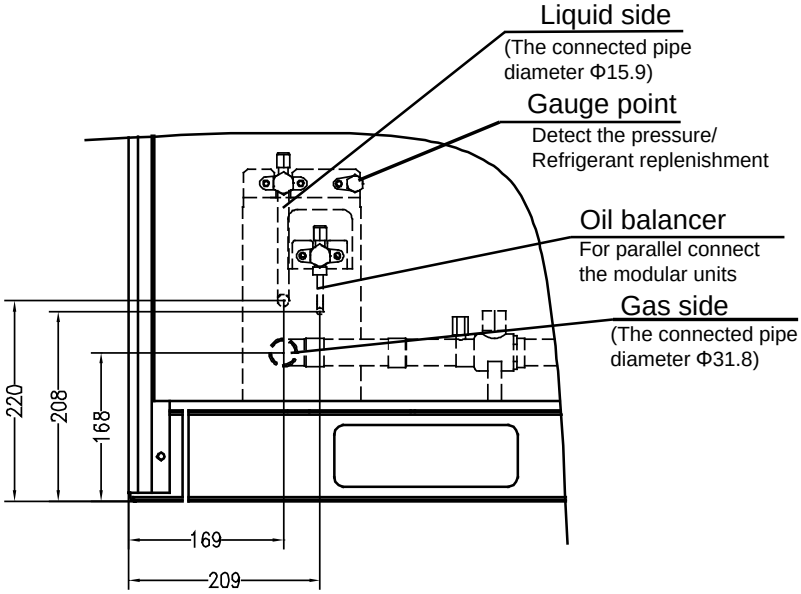

220
171
2x Ø22
120
2x Ø43.5
195
56
301
187
237
260
197
64
52
500
840
960


Liquid side
(The connected pipe diameter Φ12.7)
Gauge point
Detect the pressure/ Refrigerant replenishment
Oil balancer
For parallel connect the modular units
Gas side
(The connected pipe diameter Φ25.4)
199
159
220
208
168
195

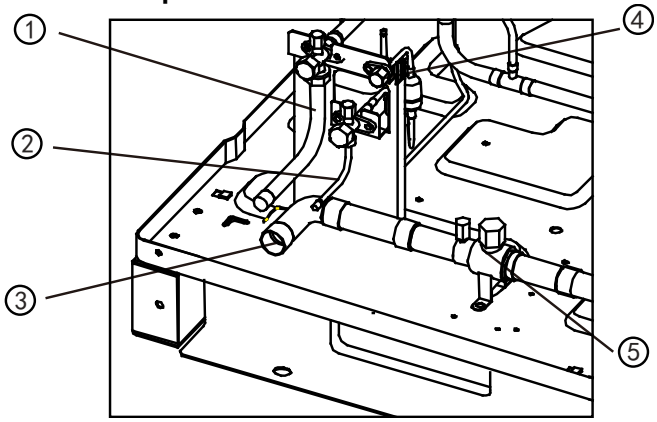
2.2 TMVV4N12HP/14HP/16HP Dimensions:





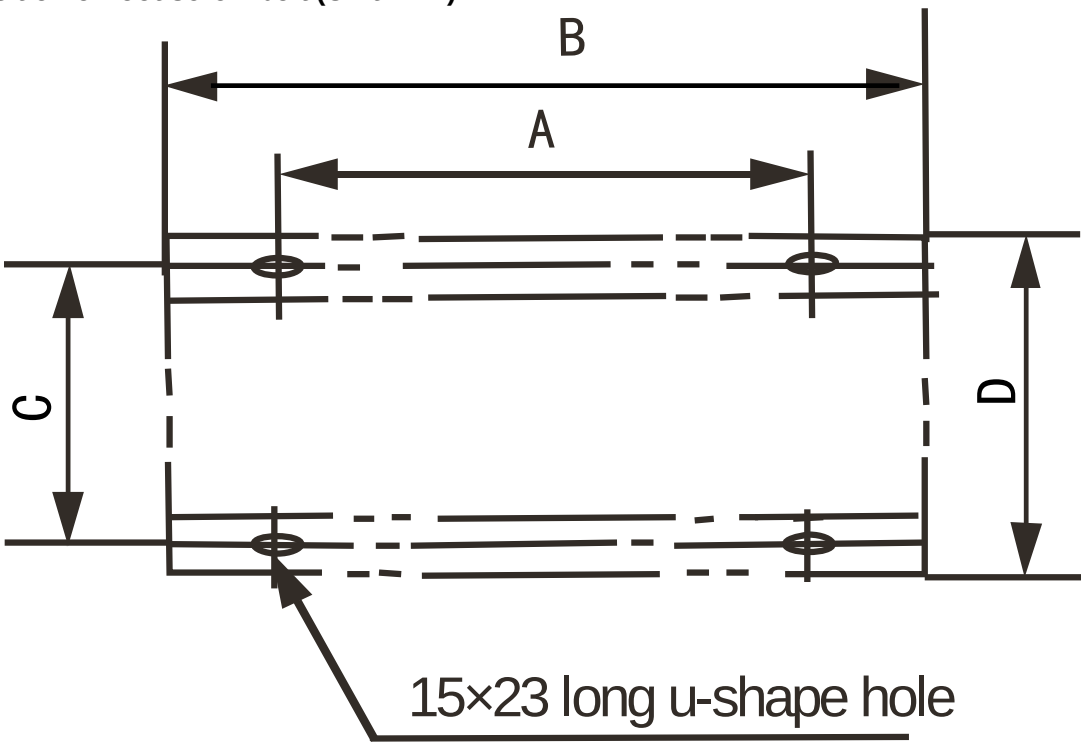


2.3 Valve explanation



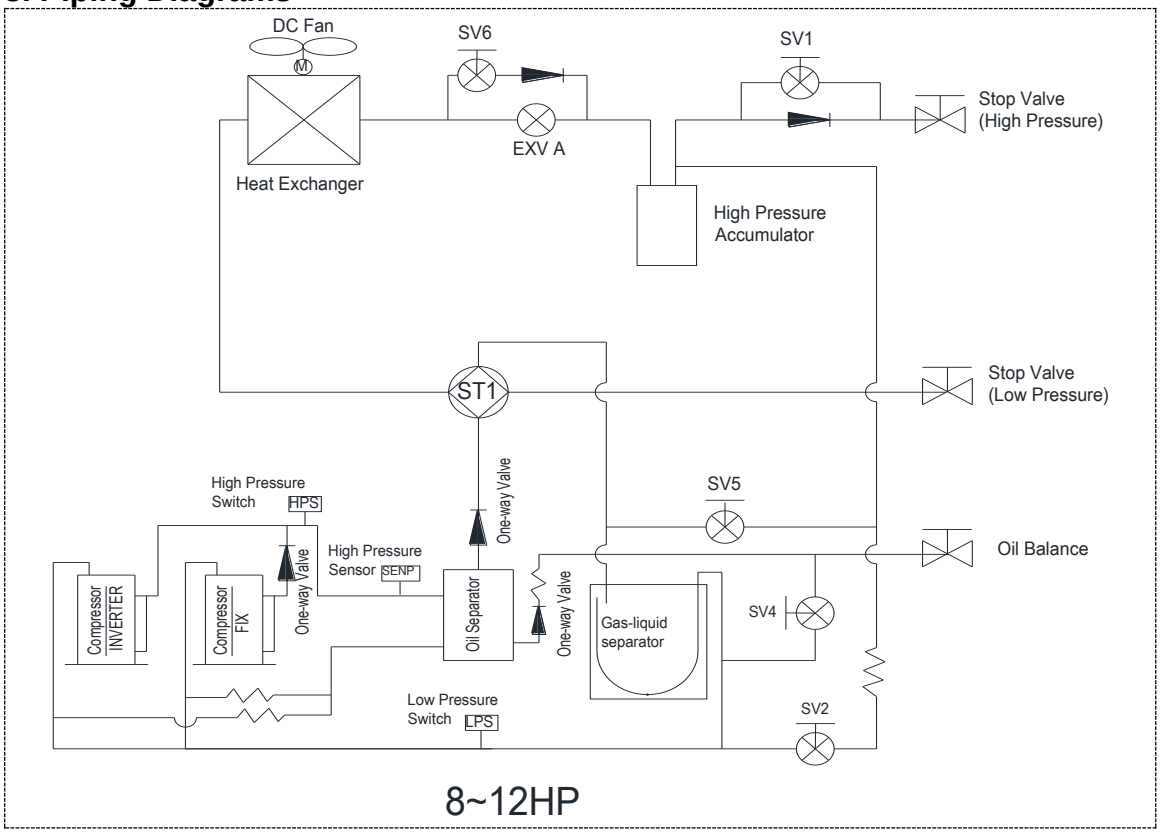
①Connect the liquid pipe (accessory, field installation)
②Oil balance pipe (only for combination)
③Connect the gas pipe
④Gauge point (use for detecting pressure and refrigerant)
⑤Low pressure float valve

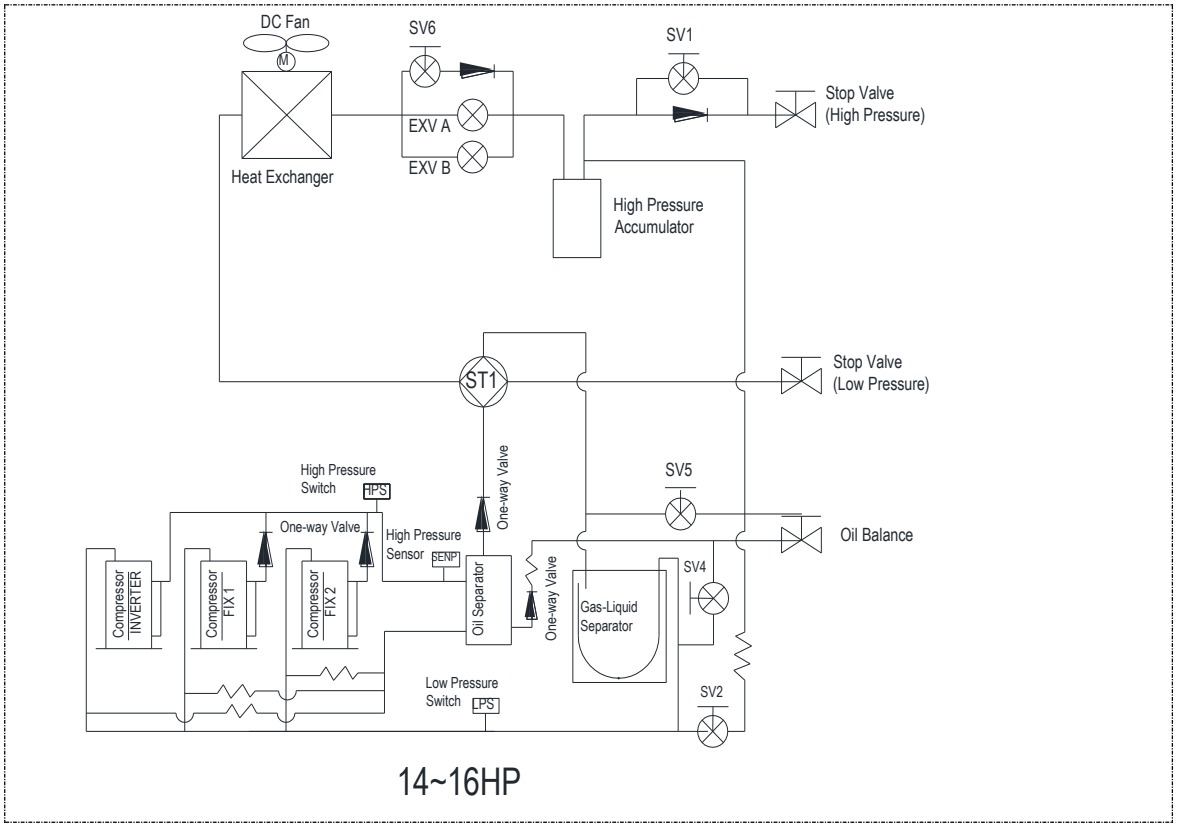
2.4 Position of foot screw bolt (Unit: mm)



	For 8,10HP	For 12,14,16HP
A	700	1120
B	960	1250
C	736	736
D	765	765

3. Piping Diagrams





Remark:

1. Models 8HP, 10HP and 12HP have one inverter compressor and one fixed speed compressor.
2. Models 14HP and 16HP have one inverter compressor and two fixed speed compressors.

Key Components:

Oil Separator: is used to separate oil from high pressure & high temperature refrigerant gas that is pumped out from compressor.The separation efficiency is up to 99%, it makes the oil return back to each compressor very soon.

High pressure accumulator: is used to store the surplus liquid refrigerant, and guarantee the refrigerant from the outdoor unit to indoor unit is in liquid status.

Gas-liquid separator: is used to store the liquid refrigerant and oil, it can protect the compressor against liquid hammer.

Four-way valve control (ST1): closes in cooling mode and opens in heating mode.

EXV (electronic expansion valve) control:

1) The maximum open degree is 480 pulses.

2) Generally when system is electrified the EXV closes 480 pulses first, and then opens to 350 pulses and standby. When the unit is started, it opens to the right pulse.

3) When the running outdoor unit receives OFF signal, the EXV of slave units will close while main unit is running continue and slave units will stop at the same time. If all outdoor units are stopped, the EXV of main unit will close first, and then open to the pulse of standby.

4) Models 8HP, 10HP and 12HP have one EXV; Models 14HP and 16HP have double EXVs.

SV1: cut off the refrigerant between outdoor units in one combination.

When the outdoor unit startup, the SV1 opens immediately. When the outdoor unit stops, the SV1 closes immediately.

SV2: spray a little amount of liquid refrigerant to cool down the compressors. It will open when any of the compressors' discharge temperature is over 100℃.

SV4: oil returning valve. Opens after the DC inverter compressor has been running for 5 minutes and then closes 15 minutes later. (For the system has only one outdoor unit).

Every 20 minutes, SV4 of each outdoor unit opens for 3 minutes. (For the system has more than one outdoor unit.)

SV5: for defrosting. In defrosting mode, the opening of SV5 will shorten the refrigerant flow cycle, so the defrosting process will takes less time.In cooling mode, it is always off.

SV6: for by-pass. Closes when the unit stands by or system in heating mode. Open when the discharge temperature is over-high in cooling mode.

High pressure sensor: to supervise the discharge pressure of compressors and to control the DC fan speed.

4. Electric Characteristics

Model	Outdoor Unit				Power Supply			Compressor		OFM	
	Hz	Voltage	Min.	Max.	MCA	TOCA	MFA	MSC	RLA	KW	FLA
TMVV4N252(8)	50	380~415	342	440	19.1	20.8	25	-/64	10.5+8.8	0.42	4.4
TMVV4N280(10)	50	380~415	342	440	22	22.1	25	-/68	10.5+9.6	0.42	4.4
TMVV4N335(12)	50	380~415	342	440	23.4	23.7	25	-/68	10.5+9.6	0.36×2	3.4×2
TMVV4N400(14)	50	380~415	342	440	33.9	31.8	35	-/64/64	10.5+8.8×2	0.36×2	3.4×2
TMVV4N450(16)	50	380~415	342	440	37.6	32.8	35	-/68/68	10.5+9.6×2	0.36×2	3.4×2

Remark:
MCA: Minimum Current Amps. (A)

TOCA: Total Over Current Amps. (A)

MFA: Maximum Fuse Amps. (A)

MSC: Maximum Starting Amps. (A)

RLA: Rated Loaded Amps. (A)

OFM: Outdoor Fan Motor.

FLA: Full Load Amps. (A)

KW: Rated Motor Output (kW)

The current value of combination unit is the total value of each basic mode (refer to units combination table in part 1)

For example: 46HP=14HP+16HP×2

Power current: MCA=33.9+37.6×2=110

TOCA=31.8+32.8×2=98

MFA=35+35×2=105

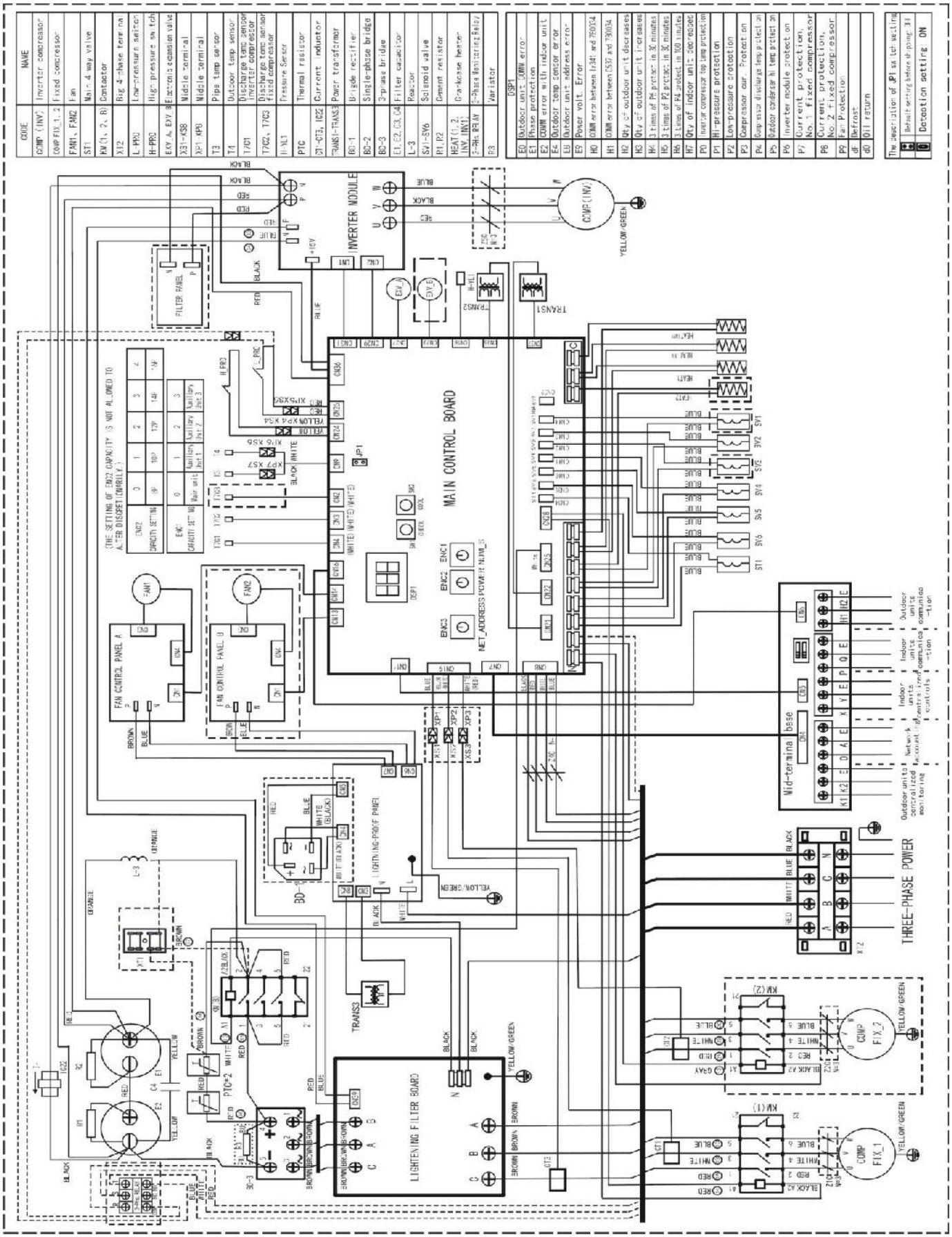
Compressor: RLA=10.5+8.8×2+ (10.5+9.6×2)×2=89

OFM: FLA=3.4×2+ (3.4×2)×2=21

Notes:
1. RLA is based on the following conditions, Indoor temp. 27℃ DB/19℃ WB,Outdoor temp. 35℃ DB
2. TOCA means the total value of each over current set.
3. MSC means the Max. current during the starting of compressor.
4. Voltage range. Units are suitable for use on electrical systems where voltage supplied to unit terminals is not below or above listed range limits.
5. Maximum allowable voltage variation between phases is 2%.
6. Selection wire size based on the larger value of MCA or TOCA.
7. MFA is used to select the circuit breaker and the ground fault circuit interrupter (earth circuit breaker).

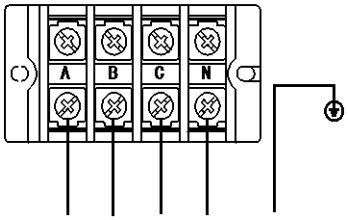
5. Wiring Diagrams and Field Wiring

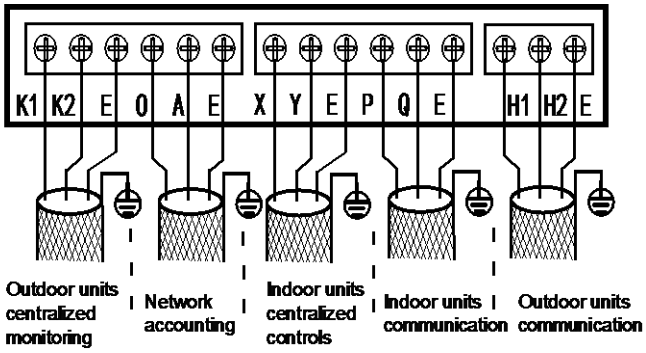
5.1 Wiring Diagrams for 8~16HP



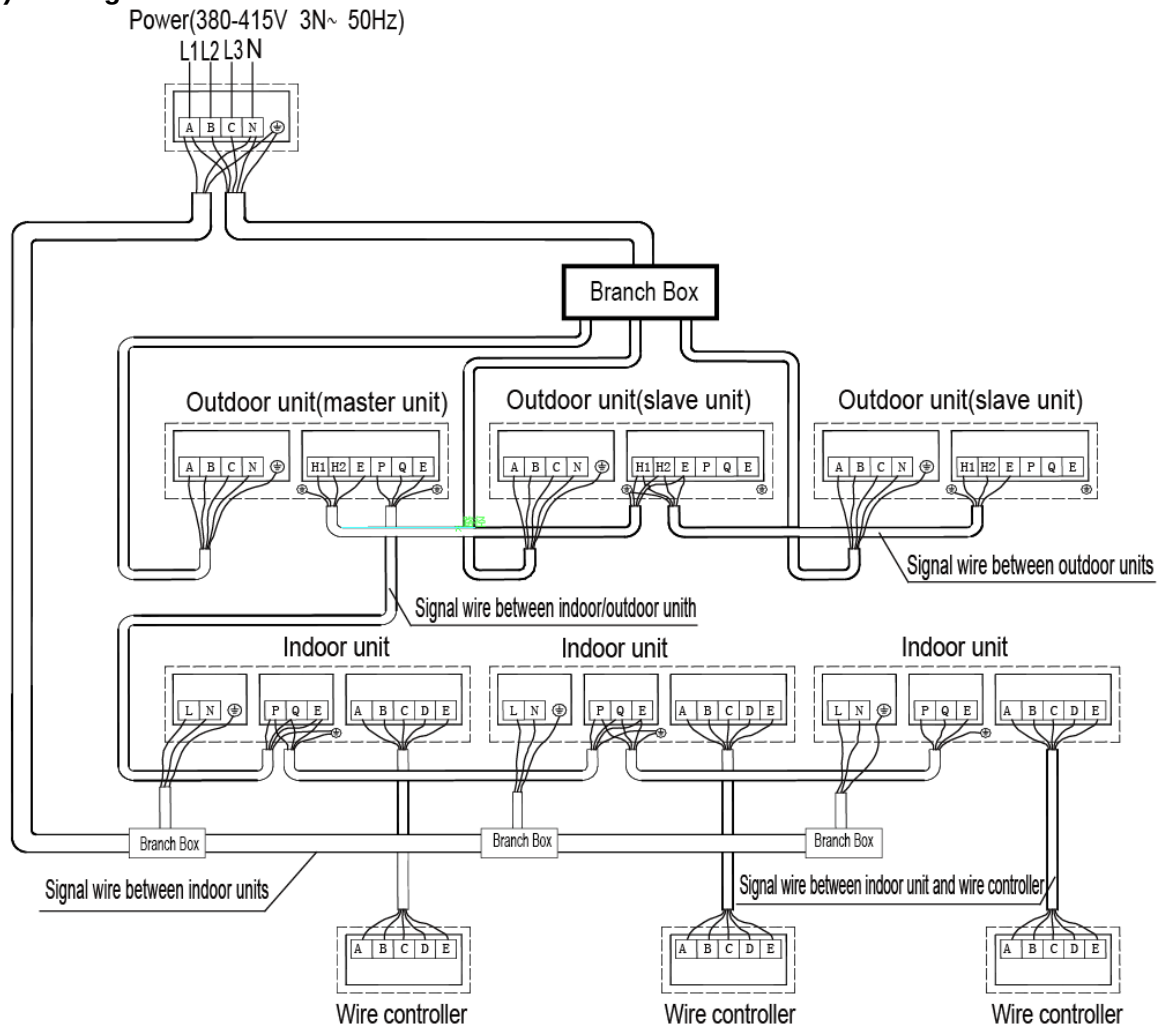
5.2 Field Wiring

a) Terminal of Outdoor unit





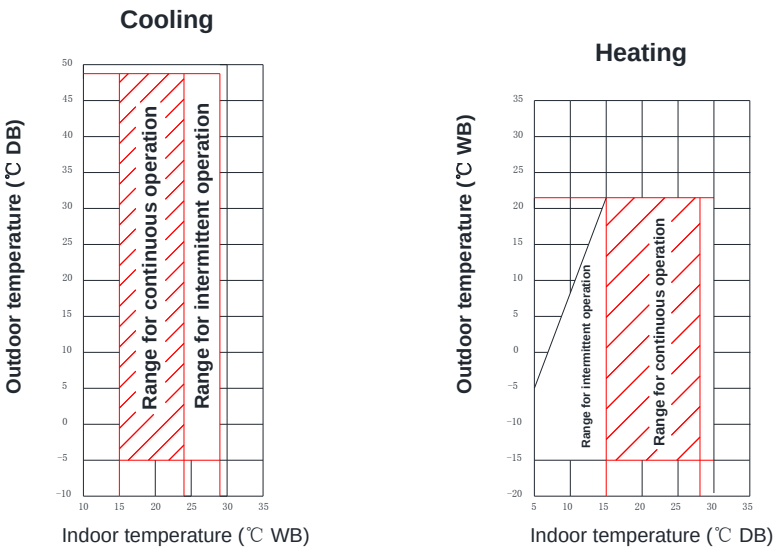
b) Wiring between Indoor and Outdoor unit



Note:

1. The signal wire between outdoor units, indoor and outdoor units and indoor units has polarity. When connecting, be careful to prevent error connection.
2. Signal wire shall adopt three-core shielded wire with a diameter above 0.75 mm^2.
3. Don't bind signal wire and copper pipe together with belting.
4. Make sure that the shield metal layer should be grounded well indoor control box in order to prevent interference.
5. it's fobbiden to connect high-volt live wire to the communication terminal.

6. Operation Limits



Notes:

1. If the system is running in cooling mode, when the ambient temperature is lower than -5℃ or higher than 48℃, the units will stop running for protection control.

2. These figures base on the operation conditions between indoor units and outdoor units:

Equivalent pipe length is 5m, and height difference is 0m.

Precaution:

The indoor relative humidity should be lower than 80%. If the air conditioner works in an environment with a relative humidity higher than mentioned above, the surface of the air conditioner may condensate. In this case, it is recommended to set the air speed of the indoor unit to high.

7. Capacity Tables

8HP cooling mode

Combination (%) (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		DB:20.8,WB:14		DB:23.3,WB:16		DB:25.8,WB:18		DB:27,WB:19		DB:28.2,WB:20		DB:30.7,WB:22		DB:32,WB:24	
		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	22.14	2.71	26.37	3.31	30.60	3.93	31.77	4.02	32.13	3.94	32.94	3.78	33.75	3.60
	12	22.14	2.76	26.37	3.37	30.60	4.01	31.32	4.00	31.77	3.92	32.49	3.74	33.30	3.69
	14	22.14	2.81	26.37	3.44	30.51	4.06	30.96	4.01	31.32	3.90	32.13	3.86	32.94	3.90
	16	22.14	2.86	26.37	3.51	30.15	4.05	30.51	3.98	30.87	4.03	31.68	4.07	32.49	4.11
	18	22.14	2.91	26.37	3.58	29.70	4.20	30.06	4.22	30.51	4.24	31.32	4.28	32.13	4.32
	20	22.14	2.98	26.37	3.81	29.25	4.40	29.70	4.43	30.06	4.45	30.87	4.49	31.68	4.54
	21	22.14	3.06	26.37	3.94	29.07	4.51	29.52	4.53	29.88	4.55	30.69	4.60	31.50	4.64
	23	22.14	3.28	26.37	4.23	28.71	4.71	29.07	4.73	29.43	4.76	30.24	4.81	31.05	4.85
	25	22.14	3.50	26.37	4.53	28.26	4.92	28.62	4.94	29.07	4.97	29.88	5.02	30.69	5.07
	27	22.14	3.74	26.37	4.85	27.90	5.12	28.26	5.15	28.62	5.18	29.43	5.23	30.24	5.29
	29	22.14	3.99	26.37	5.18	27.45	5.33	27.81	5.36	28.26	5.39	29.07	5.45	29.88	5.50
	31	22.14	4.26	26.28	5.48	27.00	5.54	27.45	5.57	27.81	5.60	28.62	5.66	29.43	5.72
	33	22.14	4.54	25.83	5.68	26.64	5.75	27.00	5.78	27.45	5.81	28.26	5.87	28.98	5.94
	35	22.14	4.84	25.38	5.89	26.19	5.96	26.64	5.99	27.00	6.03	27.81	6.10	28.62	6.16
	37	22.14	5.15	25.02	6.10	25.83	6.18	26.19	6.21	26.64	6.25	27.36	6.32	28.17	6.39
	39	22.14	5.48	24.57	6.17	25.38	6.38	25.83	6.42	26.19	6.46	27.00	6.53	27.81	6.61
	42	22.14	5.77	24.32	6.23	25.11	6.44	25.56	6.48	25.92	6.52	26.73	6.54	26.74	6.67
	44	22.14	6.06	24.06	6.29	24.85	6.48	25.30	6.54	25.39	6.54	25.76	6.57	26.11	6.70
	46	22.14	6.35	23.96	6.35	24.58	6.56	25.03	6.56	25.18	6.58	25.31	6.59	25.71	6.92
120%	10	20.43	2.47	24.30	3.02	28.26	3.59	30.24	3.88	31.68	4.05	32.40	3.89	33.12	3.74
	12	20.43	2.52	24.30	3.07	28.26	3.66	30.24	3.95	31.23	4.02	31.95	3.87	32.67	3.71
	14	20.43	2.57	24.30	3.14	28.26	3.73	30.24	4.03	30.78	4.00	31.59	3.85	32.31	3.87
	16	20.43	2.61	24.30	3.20	28.26	3.80	30.06	4.06	30.42	4.01	31.14	4.05	31.86	4.08
	18	20.43	2.66	24.30	3.26	28.26	3.93	29.61	4.20	29.97	4.21	30.69	4.25	31.50	4.29
	20	20.43	2.72	24.30	3.39	28.26	4.23	29.25	4.40	29.61	4.42	30.33	4.46	31.05	4.50
	21	20.43	2.74	24.30	3.51	28.26	4.38	28.98	4.50	29.34	4.52	30.15	4.56	30.87	4.61
	23	20.43	2.93	24.30	3.76	28.26	4.69	28.62	4.70	28.98	4.73	29.70	4.77	30.42	4.81
	25	20.43	3.13	24.30	4.02	27.81	4.89	28.17	4.91	28.53	4.93	29.34	4.98	30.06	5.03
	27	20.43	3.34	24.30	4.30	27.45	5.09	27.81	5.12	28.17	5.15	28.89	5.19	29.61	5.24
	29	20.43	3.56	24.30	4.59	27.00	5.30	27.36	5.33	27.72	5.35	28.44	5.41	29.25	5.45
	31	20.43	3.80	24.30	4.90	26.55	5.51	27.00	5.53	27.36	5.57	28.08	5.62	28.80	5.68
	33	20.43	4.05	24.30	5.23	26.19	5.72	26.55	5.75	26.91	5.77	27.63	5.83	28.35	5.89
	35	20.43	4.31	24.30	5.57	25.74	5.92	26.10	5.95	26.55	5.98	27.27	6.05	27.99	6.11
	37	20.43	4.58	24.30	5.94	25.38	6.14	25.74	6.17	26.10	6.20	26.82	6.26	27.54	6.33
	39	20.43	4.88	24.21	6.27	24.93	6.34	25.29	6.38	25.65	6.41	26.46	6.48	27.18	6.55
	42	20.43	5.05	23.95	6.33	24.67	6.40	25.03	6.44	25.39	6.47	26.20	6.51	26.14	6.61
	44	20.43	5.11	23.82	6.39	24.41	6.45	24.77	6.46	25.13	6.49	25.42	6.53	25.84	6.84
	46	20.43	5.17	23.69	6.45	24.20	6.52	24.51	6.56	24.95	6.57	25.15	6.55	25.61	6.90
110%	10	18.72	2.24	22.32	2.73	25.92	3.25	27.72	3.51	29.52	3.78	31.77	4.01	32.49	3.87
	12	18.72	2.29	22.32	2.79	25.92	3.31	27.72	3.58	29.52	3.85	31.41	3.99	32.04	3.85
	14	18.72	2.33	22.32	2.83	25.92	3.37	27.72	3.64	29.52	3.92	30.96	3.97	31.68	3.84
	16	18.72	2.37	22.32	2.89	25.92	3.44	27.72	3.71	29.52	4.00	30.60	4.01	31.23	4.05
	18	18.72	2.41	22.32	2.95	25.92	3.51	27.72	3.82	29.52	4.19	30.15	4.22	30.87	4.26
	20	18.72	2.46	22.32	3.01	25.92	3.71	27.72	4.10	29.07	4.39	29.79	4.43	30.42	4.47
	21	18.72	2.49	22.32	3.10	25.92	3.85	27.72	4.25	28.89	4.50	29.52	4.53	30.24	4.57
	23	18.72	2.60	22.32	3.32	25.92	4.12	27.72	4.56	28.44	4.69	29.16	4.74	29.79	4.78
	25	18.72	2.78	22.32	3.55	25.92	4.41	27.72	4.88	28.08	4.90	28.71	4.95	29.43	4.99
	27	18.72	2.96	22.32	3.79	25.92	4.72	27.27	5.09	27.63	5.11	28.35	5.15	28.98	5.20
	29	18.72	3.16	22.32	4.05	25.92	5.04	26.91	5.30	27.27	5.32	27.90	5.37	28.62	5.42
	31	18.72	3.36	22.32	4.31	25.92	5.38	26.46	5.50	26.82	5.53	27.54	5.57	28.17	5.63
	33	18.72	3.58	22.32	4.60	25.74	5.68	26.10	5.71	26.46	5.73	27.09	5.79	27.81	5.84
	35	18.72	3.81	22.32	4.90	25.29	5.88	25.65	5.91	26.01	5.95	26.64	6.00	27.36	6.06
	37	18.72	4.05	22.32	5.22	24.93	6.10	25.29	6.12	25.56	6.15	26.28	6.21	26.91	6.27
	39	18.72	4.31	22.32	5.56	24.48	6.30	24.84	6.33	25.20	6.37	25.83	6.43	26.55	6.49
	42	18.72	4.37	22.32	5.62	24.22	6.36	24.58	6.39	24.95	6.42	25.39	6.49	25.48	6.55
	44	18.72	4.42	22.32	5.68	23.97	6.42	24.33	6.45	24.69	6.48	25.16	6.51	25.23	6.79
	46	18.72	4.54	22.32	5.74	23.74	6.48	24.07	6.55	24.50	6.54	24.88	6.84	25.01	6.86

	10	17.01	2.03	20.25	2.45	23.58	2.91	25.20	3.14	26.82	3.38	30.15	3.86	31.86	4.00
	12	17.01	2.06	20.25	2.50	23.58	2.96	25.20	3.20	26.82	3.44	30.15	3.93	31.41	3.97
	14	17.01	2.10	20.25	2.55	23.58	3.02	25.20	3.26	26.82	3.51	30.15	4.01	31.05	3.95
	16	17.01	2.14	20.25	2.60	23.58	3.08	25.20	3.32	26.82	3.58	29.97	4.06	30.60	4.02
	18	17.01	2.18	20.25	2.64	23.58	3.13	25.20	3.39	26.82	3.65	29.61	4.20	30.24	4.23
	20	17.01	2.22	20.25	2.70	23.58	3.23	25.20	3.56	26.82	3.91	29.16	4.39	29.79	4.43
	21	17.01	2.24	20.25	2.72	23.58	3.35	25.20	3.69	26.82	4.05	28.98	4.50	29.61	4.54
	23	17.01	2.30	20.25	2.91	23.58	3.59	25.20	3.95	26.82	4.34	28.62	4.70	29.16	4.74
	25	17.01	2.45	20.25	3.10	23.58	3.84	25.20	4.24	26.82	4.65	28.17	4.91	28.80	4.95
100%	27	17.01	2.61	20.25	3.31	23.58	4.10	25.20	4.53	26.82	4.97	27.72	5.11	28.35	5.16
	29	17.01	2.78	20.25	3.53	23.58	4.38	25.20	4.84	26.73	5.28	27.36	5.33	27.99	5.37
	31	17.01	2.96	20.25	3.77	23.58	4.67	25.20	5.16	26.37	5.49	26.91	5.53	27.54	5.58
	33	17.01	3.14	20.25	4.01	23.58	4.98	25.20	5.51	25.92	5.69	26.55	5.74	27.18	5.79
	35	17.01	3.34	20.25	4.27	23.58	5.31	25.20	5.87	25.47	5.90	26.10	5.95	26.73	6.00
	37	17.01	3.55	20.25	4.54	23.58	5.66	24.75	6.08	25.11	6.11	25.74	6.17	26.28	6.21
	39	17.01	3.78	20.25	4.83	23.58	6.02	24.39	6.29	24.66	6.32	25.29	6.37	25.92	6.44
	42	17.01	4.01	20.25	5.06	23.58	6.32	23.88	6.34	24.41	6.45	24.71	6.52	25.42	6.61
	44	17.01	4.25	20.25	5.30	23.58	6.40	23.38	6.46	24.18	6.51	25.29	6.61	24.77	6.67
	46	17.01	4.48	20.25	5.53	23.58	6.54	22.88	6.52	24.15	6.68	24.28	6.73	24.41	6.79
	10	15.30	1.81	18.27	2.18	21.24	2.58	22.68	2.79	24.12	2.99	27.09	3.42	30.06	3.85
	12	15.30	1.84	18.27	2.22	21.24	2.63	22.68	2.83	24.12	3.05	27.09	3.48	30.06	3.93
	14	15.30	1.88	18.27	2.26	21.24	2.68	22.68	2.89	24.12	3.10	27.09	3.55	30.06	4.00
	16	15.30	1.91	18.27	2.30	21.24	2.73	22.68	2.94	24.12	3.17	27.09	3.62	29.97	4.07
	18	15.30	1.94	18.27	2.35	21.24	2.78	22.68	3.00	24.12	3.23	27.09	3.69	29.61	4.20
	20	15.30	1.98	18.27	2.40	21.24	2.83	22.68	3.06	24.12	3.35	27.09	3.97	29.16	4.39
	21	15.30	1.99	18.27	2.42	21.24	2.88	22.68	3.17	24.12	3.47	27.09	4.11	28.98	4.50
	23	15.30	2.03	18.27	2.52	21.24	3.09	22.68	3.40	24.12	3.72	27.09	4.41	28.53	4.70
	25	15.30	2.15	18.27	2.69	21.24	3.30	22.68	3.63	24.12	3.97	27.09	4.72	28.17	4.91
90%	27	15.30	2.28	18.27	2.87	21.24	3.52	22.68	3.88	24.12	4.25	27.09	5.05	27.72	5.11
	29	15.30	2.43	18.27	3.06	21.24	3.76	22.68	4.14	24.12	4.54	26.82	5.28	27.36	5.32
	31	15.30	2.58	18.27	3.25	21.24	4.01	22.68	4.42	24.12	4.84	26.37	5.49	26.91	5.53
	33	15.30	2.74	18.27	3.46	21.24	4.27	22.68	4.71	24.12	5.17	26.01	5.70	26.55	5.74
	35	15.30	2.91	18.27	3.68	21.24	4.55	22.68	5.02	24.12	5.51	25.56	5.91	26.10	5.95
	37	15.30	3.09	18.27	3.91	21.24	4.84	22.68	5.34	24.12	5.87	25.11	6.11	25.74	6.16
	39	15.30	3.28	18.27	4.16	21.24	5.15	22.68	5.69	24.12	6.25	24.75	6.33	25.29	6.37
	42	15.30	3.43	18.27	4.41	21.24	5.40	22.68	5.89	24.12	6.30	24.52	6.54	25.06	6.57
	44	15.30	3.68	18.27	4.67	21.24	5.66	22.68	6.09	24.12	6.55	24.38	6.60	24.74	6.67
	46	15.30	3.88	18.27	4.87	21.24	5.86	22.68	6.29	24.12	6.66	24.25	6.68	24.30	6.75
	10	13.59	1.61	16.20	1.92	18.81	2.26	20.16	2.44	21.51	2.61	24.12	2.98	26.73	3.36
	12	13.59	1.63	16.20	1.96	18.81	2.30	20.16	2.49	21.51	2.67	24.12	3.04	26.73	3.43
	14	13.59	1.66	16.20	1.99	18.81	2.34	20.16	2.53	21.51	2.72	24.12	3.10	26.73	3.49
	16	13.59	1.69	16.20	2.03	18.81	2.39	20.16	2.57	21.51	2.76	24.12	3.16	26.73	3.55
	18	13.59	1.72	16.20	2.07	18.81	2.44	20.16	2.63	21.51	2.82	24.12	3.22	26.73	3.63
	20	13.59	1.75	16.20	2.11	18.81	2.49	20.16	2.68	21.51	2.87	24.12	3.34	26.73	3.88
	21	13.59	1.77	16.20	2.12	18.81	2.51	20.16	2.71	21.51	2.94	24.12	3.46	26.73	4.02
	23	13.59	1.80	16.20	2.17	18.81	2.63	20.16	2.88	21.51	3.14	24.12	3.70	26.73	4.31
	25	13.59	1.85	16.20	2.30	18.81	2.81	20.16	3.08	21.51	3.36	24.12	3.97	26.73	4.62
80%	27	13.59	1.97	16.20	2.45	18.81	2.99	20.16	3.29	21.51	3.59	24.12	4.24	26.73	4.94
	29	13.59	2.10	16.20	2.61	18.81	3.19	20.16	3.50	21.51	3.83	24.12	4.52	26.73	5.28
	31	13.59	2.22	16.20	2.78	18.81	3.40	20.16	3.73	21.51	4.09	24.12	4.83	26.28	5.49
	33	13.59	2.37	16.20	2.95	18.81	3.62	20.16	3.97	21.51	4.35	24.12	5.15	25.92	5.69
	35	13.59	2.51	16.20	3.14	18.81	3.85	20.16	4.23	21.51	4.63	24.12	5.49	25.47	5.90
	37	13.59	2.66	16.20	3.33	18.81	4.09	20.16	4.50	21.51	4.93	24.12	5.85	25.11	6.10
	39	13.59	2.82	16.20	3.55	18.81	4.35	20.16	4.79	21.51	5.25	24.12	6.23	24.66	6.32
	42	13.59	2.90	16.20	3.60	18.81	4.44	20.16	4.96	21.51	5.38	24.12	6.44	24.46	6.47
	44	13.59	3.03	16.20	3.64	18.81	4.52	20.16	5.04	21.51	5.46	24.12	6.48	24.26	6.53
	46	13.59	3.07	16.20	3.68	18.81	4.61	20.16	5.17	21.51	5.56	24.12	6.58	24.05	6.68
	10	11.88	1.42	14.22	1.68	16.47	1.96	17.64	2.11	18.81	2.26	21.06	2.56	23.40	2.88
	12	11.88	1.43	14.22	1.70	16.47	2.00	17.64	2.15	18.81	2.30	21.06	2.61	23.40	2.94
	14	11.88	1.46	14.22	1.73	16.47	2.03	17.64	2.18	18.81	2.34	21.06	2.66	23.40	2.99
70%	16	11.88	1.48	14.22	1.77	16.47	2.07	17.64	2.22	18.81	2.38	21.06	2.71	23.40	3.05
	18	11.88	1.50	14.22	1.80	16.47	2.11	17.64	2.26	18.81	2.42	21.06	2.76	23.40	3.11
	20	11.88	1.53	14.22	1.83	16.47	2.15	17.64	2.30	18.81	2.47	21.06	2.82	23.40	3.20
	21	11.88	1.54	14.22	1.84	16.47	2.16	17.64	2.33	18.81	2.49	21.06	2.86	23.40	3.31

	23	11.88	1.57	14.22	1.88	16.47	2.21	17.64	2.41	18.81	2.62	21.06	3.06	23.40	3.55
	25	11.88	1.60	14.22	1.96	16.47	2.35	17.64	2.57	18.81	2.79	21.06	3.28	23.40	3.79
	27	11.88	1.69	14.22	2.08	16.47	2.51	17.64	2.74	18.81	2.98	21.06	3.50	23.40	4.05
	29	11.88	1.80	14.22	2.21	16.47	2.67	17.64	2.92	18.81	3.17	21.06	3.73	23.40	4.33
	31	11.88	1.90	14.22	2.34	16.47	2.84	17.64	3.10	18.81	3.38	21.06	3.97	23.40	4.62
	33	11.88	2.02	14.22	2.49	16.47	3.02	17.64	3.30	18.81	3.60	21.06	4.24	23.40	4.92
	35	11.88	2.14	14.22	2.64	16.47	3.21	17.64	3.52	18.81	3.83	21.06	4.51	23.40	5.25
	37	11.88	2.26	14.22	2.80	16.47	3.41	17.64	3.73	18.81	4.08	21.06	4.81	23.40	5.59
	39	11.88	2.39	14.22	2.97	16.47	3.62	17.64	3.97	18.81	4.33	21.06	5.11	23.40	5.95
	42	11.88	2.53	14.22	3.11	16.47	3.76	17.64	4.14	18.81	4.51	21.06	5.39	23.40	6.30
	44	11.88	2.70	14.22	3.29	16.47	3.88	17.64	4.32	18.81	4.68	21.06	5.63	23.40	6.52
	46	11.88	2.82	14.22	3.43	16.47	4.04	17.64	4.46	18.81	4.82	21.06	5.81	23.40	6.66
60%	10	10.17	1.23	12.15	1.44	14.13	1.67	15.12	1.79	16.11	1.91	18.09	2.16	20.07	2.42
	12	10.17	1.25	12.15	1.46	14.13	1.70	15.12	1.82	16.11	1.94	18.09	2.20	20.07	2.46
	14	10.17	1.27	12.15	1.49	14.13	1.73	15.12	1.85	16.11	1.98	18.09	2.24	20.07	2.51
	16	10.17	1.28	12.15	1.51	14.13	1.76	15.12	1.88	16.11	2.01	18.09	2.28	20.07	2.56
	18	10.17	1.31	12.15	1.54	14.13	1.79	15.12	1.92	16.11	2.05	18.09	2.32	20.07	2.60
	20	10.17	1.32	12.15	1.57	14.13	1.82	15.12	1.96	16.11	2.09	18.09	2.37	20.07	2.66
	21	10.17	1.34	12.15	1.58	14.13	1.84	15.12	1.97	16.11	2.11	18.09	2.39	20.07	2.68
	23	10.17	1.35	12.15	1.61	14.13	1.87	15.12	2.01	16.11	2.14	18.09	2.49	20.07	2.86
	25	10.17	1.38	12.15	1.63	14.13	1.94	15.12	2.11	16.11	2.28	18.09	2.65	20.07	3.05
	27	10.17	1.43	12.15	1.73	14.13	2.07	15.12	2.25	16.11	2.43	18.09	2.83	20.07	3.25
	29	10.17	1.51	12.15	1.84	14.13	2.20	15.12	2.39	16.11	2.59	18.09	3.02	20.07	3.47
	31	10.17	1.61	12.15	1.95	14.13	2.33	15.12	2.54	16.11	2.75	18.09	3.21	20.07	3.70
	33	10.17	1.69	12.15	2.07	14.13	2.48	15.12	2.70	16.11	2.93	18.09	3.41	20.07	3.94
	35	10.17	1.80	12.15	2.19	14.13	2.63	15.12	2.87	16.11	3.11	18.09	3.63	20.07	4.20
	37	10.17	1.90	12.15	2.32	14.13	2.79	15.12	3.04	16.11	3.30	18.09	3.86	20.07	4.46
	39	10.17	2.00	12.15	2.45	14.13	2.95	15.12	3.22	16.11	3.51	18.09	4.10	20.07	4.75
	42	10.17	2.09	12.15	2.59	14.13	3.10	15.12	3.39	16.11	3.68	18.09	4.36	20.07	5.04
	44	10.17	2.17	12.15	2.74	14.13	3.24	15.12	3.51	16.11	3.85	18.09	4.59	20.07	5.32
	46	10.17	2.29	12.15	2.87	14.13	3.35	15.12	3.65	16.11	4.05	18.09	4.76	20.07	5.61
50%	10	8.51	1.06	10.17	1.23	11.79	1.40	12.60	1.50	13.41	1.58	15.03	1.78	16.74	1.99
	12	8.51	1.07	10.17	1.24	11.79	1.42	12.60	1.51	13.41	1.61	15.03	1.81	16.74	2.02
	14	8.51	1.08	10.17	1.26	11.79	1.44	12.60	1.54	13.41	1.64	15.03	1.84	16.74	2.06
	16	8.51	1.10	10.17	1.27	11.79	1.46	12.60	1.57	13.41	1.66	15.03	1.88	16.74	2.09
	18	8.51	1.12	10.17	1.30	11.79	1.49	12.60	1.59	13.41	1.69	15.03	1.91	16.74	2.13
	20	8.51	1.13	10.17	1.31	11.79	1.51	12.60	1.61	13.41	1.73	15.03	1.94	16.74	2.17
	21	8.51	1.14	10.17	1.33	11.79	1.53	12.60	1.63	13.41	1.74	15.03	1.96	16.74	2.19
	23	8.51	1.16	10.17	1.35	11.79	1.55	12.60	1.66	13.41	1.77	15.03	1.99	16.74	2.24
	25	8.51	1.17	10.17	1.37	11.79	1.58	12.60	1.69	13.41	1.83	15.03	2.10	16.74	2.39
	27	8.51	1.20	10.17	1.42	11.79	1.67	12.60	1.80	13.41	1.94	15.03	2.23	16.74	2.55
	29	8.51	1.26	10.17	1.50	11.79	1.77	12.60	1.92	13.41	2.07	15.03	2.37	16.74	2.72
	31	8.51	1.33	10.17	1.59	11.79	1.88	12.60	2.03	13.41	2.19	15.03	2.52	16.74	2.89
	33	8.51	1.41	10.17	1.69	11.79	1.99	12.60	2.15	13.41	2.33	15.03	2.68	16.74	3.07
	35	8.51	1.49	10.17	1.78	11.79	2.11	12.60	2.28	13.41	2.46	15.03	2.85	16.74	3.26
	37	8.51	1.57	10.17	1.88	11.79	2.23	12.60	2.41	13.41	2.61	15.03	3.02	16.74	3.47
	39	8.51	1.65	10.17	1.99	11.79	2.36	12.60	2.56	13.41	2.77	15.03	3.21	16.74	3.68
	42	8.51	1.75	10.17	2.10	11.79	2.47	12.60	2.72	13.41	2.93	15.03	3.43	16.74	3.91
	44	8.51	1.84	10.17	2.21	11.79	2.59	12.60	2.88	13.41	3.00	15.03	3.66	16.74	4.14
	46	8.51	1.92	10.17	2.33	11.79	2.70	12.60	3.01	13.41	3.09	15.03	3.89	16.74	4.36

Note:

1, is shown as reference

2, The above table shows the average value of conditions may operate

3, It is recommended to connect less than 130%

8HP heating mode

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	kW
130%	-19.8	-20	17.48	4.57	17.40	4.81	17.32	5.09	17.32	5.27	17.23	5.40	17.23	5.72
	-18.8	-19	17.74	4.62	17.66	4.88	17.66	5.18	17.57	5.33	17.57	5.48	17.48	5.80
	-16.7	-17	18.43	4.79	18.34	5.06	18.26	5.37	18.26	5.52	18.26	5.66	18.17	5.96
	-13.7	-15	19.20	4.99	19.12	5.25	19.03	5.57	19.03	5.71	18.94	5.85	18.94	6.14
	-11.8	-13	19.97	5.17	19.97	5.47	19.89	5.76	19.80	5.90	19.80	6.04	19.71	6.31
	-9.8	-11	20.92	5.42	20.83	5.71	20.74	5.97	20.74	6.10	20.74	6.23	20.66	6.49
	-9.5	-10	21.43	5.51	21.34	5.81	21.26	6.07	21.26	6.20	21.17	6.32	21.17	6.57
	-8.5	-9.1	21.86	5.62	21.77	5.90	21.77	6.16	21.69	6.28	21.69	6.40	21.60	6.66
	-7	-7.6	22.63	5.77	22.63	6.07	22.54	6.30	22.54	6.43	22.46	6.54	22.37	6.79
	-5	-5.6	23.83	6.04	23.74	6.27	23.66	6.50	23.66	6.62	23.57	6.72	23.57	6.95
	-3	-3.7	24.94	6.24	24.86	6.46	24.86	6.67	24.77	6.79	24.77	6.89	24.68	7.11
	0	-0.7	26.91	6.54	26.91	6.75	26.83	6.94	26.83	7.02	26.74	7.15	26.74	7.34
	3	2.2	29.05	6.81	28.97	7.00	28.89	7.19	28.89	7.28	28.89	7.38	28.80	7.56
	5	4.1	30.51	6.98	30.43	7.16	30.43	7.34	30.34	7.43	30.34	7.52	30.26	7.69
	7	6	32.06	7.15	31.97	7.31	31.97	7.48	31.88	7.57	31.88	7.65	30.60	7.34
	9	7.9	33.68	7.30	33.60	7.46	33.60	7.61	33.51	7.70	32.83	7.53	30.60	6.90
	11	9.8	35.40	7.44	35.31	7.59	35.14	7.69	33.94	7.39	32.83	7.08	30.60	6.50
	13	11.8	37.28	7.58	37.20	7.73	35.14	7.21	33.94	6.92	32.83	6.65	30.60	6.10
	15	13.7	39.08	7.71	37.37	7.32	35.14	6.79	33.94	6.53	32.83	6.26	30.60	5.75
120%	-19.8	-20	17.40	4.67	17.31	4.91	17.23	5.19	17.23	5.32	17.23	5.46	17.14	5.74
	-18.8	-19	17.66	4.72	17.57	5.00	17.57	5.27	17.49	5.40	17.49	5.54	17.40	5.81
	-16.7	-17	18.34	4.91	18.26	5.18	18.14	5.43	18.17	5.56	18.17	5.70	18.09	5.95
	-13.7	-15	19.12	5.11	19.03	5.35	18.94	5.60	18.94	5.74	18.94	5.86	18.86	6.11
	-11.8	-13	19.89	5.30	19.89	5.54	19.80	5.78	19.80	5.91	19.72	6.02	19.72	6.26
	-9.8	-11	20.83	5.50	20.74	5.73	20.74	5.96	20.66	6.08	20.66	6.19	20.57	6.42
	-9.5	-10	21.35	5.60	21.26	5.83	21.17	6.05	21.17	6.16	21.17	6.27	21.09	6.50
	-8.5	-9.1	21.77	5.69	21.69	5.91	21.69	6.12	21.60	6.23	21.60	6.35	21.51	6.57
	-7	-7.6	22.54	5.84	22.54	6.05	22.46	6.26	22.46	6.37	22.37	6.47	22.37	6.68
	-5	-5.6	23.74	6.02	23.66	6.23	23.57	6.43	23.57	6.53	23.57	6.63	23.49	6.83
	-3	-3.7	24.86	6.20	24.86	6.40	24.77	6.58	24.77	6.68	24.69	6.78	24.69	6.97
	0	-0.7	26.83	6.47	26.83	6.65	26.74	6.82	26.74	6.91	26.66	7.00	26.66	7.18
	3	2.2	28.97	6.71	28.89	6.87	28.89	7.04	28.80	7.12	28.80	7.20	28.20	7.16
	5	4.1	30.43	6.86	30.34	7.01	30.34	7.17	30.26	7.25	30.26	7.32	28.20	6.72
	7	6	31.97	7.00	31.97	7.14	31.89	7.29	31.37	7.19	30.34	6.90	28.20	6.33
	9	7.9	33.60	7.14	33.52	7.28	32.40	7.04	31.37	6.76	30.34	6.48	28.20	5.95
	11	9.8	35.31	7.26	34.46	7.14	32.40	6.62	31.37	6.36	30.34	6.10	28.20	5.61
	13	11.8	36.60	7.19	34.46	6.69	32.40	6.20	31.37	5.97	30.34	5.74	28.20	5.28
	15	13.7	36.60	6.77	34.46	6.30	32.40	5.85	31.37	5.63	30.34	5.41	28.20	4.98
110%	-19.8	-20	17.31	5.18	17.23	5.43	17.14	5.69	17.14	5.82	17.15	5.95	17.06	6.21
	-18.8	-19	17.57	5.26	17.49	5.51	17.49	5.77	17.49	5.89	17.40	6.02	17.40	6.28
	-16.7	-17	18.26	5.43	18.17	5.68	18.43	5.93	18.09	6.05	18.09	6.17	18.00	6.41
	-13.7	-15	19.03	5.62	18.95	5.85	18.86	6.01	18.86	6.21	18.86	6.33	18.77	6.56
	-11.8	-13	19.80	5.81	19.80	6.03	19.71	6.25	19.71	6.37	19.63	6.48	19.63	6.71
	-9.8	-11	20.74	5.99	20.66	6.21	20.66	6.42	20.57	6.53	20.57	6.64	20.57	6.85
	-9.5	-10	21.26	6.09	21.17	6.29	21.08	6.51	21.08	6.61	21.08	6.72	21.00	6.85
	-8.5	-9.1	21.69	6.17	21.60	6.37	21.60	6.58	21.51	6.69	21.51	6.79	21.51	6.91
	-7	-7.6	22.46	6.31	22.46	6.50	22.37	6.70	22.37	6.80	22.37	6.90	22.29	6.93
	-5	-5.6	23.66	6.49	23.57	6.68	23.49	6.86	23.49	6.96	23.49	7.05	23.40	7.00
	-3	-3.7	24.77	6.65	24.77	6.83	24.69	7.01	24.69	7.10	24.60	7.19	24.60	7.07
	0	-0.7	26.74	6.90	26.74	7.07	26.66	7.24	26.66	7.32	26.66	7.40	25.89	7.26
	3	2.2	28.89	7.13	28.80	7.28	28.80	7.44	28.71	7.51	27.77	7.20	25.89	6.61
	5	4.1	30.34	7.27	30.34	7.42	29.74	7.35	28.71	7.05	27.77	6.77	25.89	6.21
	7	6	31.88	7.40	31.63	7.45	29.74	6.90	28.71	6.63	27.77	6.37	25.89	5.85
	9	7.9	33.51	7.52	31.63	7.00	29.74	6.49	28.71	6.24	27.77	5.99	25.89	5.51
	11	9.8	33.51	7.08	31.63	6.59	29.74	6.11	28.71	5.88	27.77	5.65	25.89	5.20
	13	11.8	33.51	6.64	31.63	6.18	29.74	5.74	28.71	5.53	27.77	5.31	25.89	4.90
	15	13.7	33.51	5.89	31.63	5.83	29.74	5.42	28.71	5.22	27.77	5.02	25.89	4.63
100%	-19.8	-20	17.23	5.59	17.14	5.82	17.14	6.06	17.06	6.18	17.06	6.29	16.97	6.53
	-18.8	-19	17.49	5.66	17.49	5.89	17.40	6.13	17.40	6.25	17.32	6.37	17.32	6.60

	-16.7	-17	18.17	5.82	18.08	6.05	18.08	6.27	18.00	6.38	18.00	6.49	18.00	6.72
	-13.7	-15	18.94	5.99	18.86	6.21	18.77	6.42	18.77	6.53	18.77	6.64	18.69	6.85
	-11.8	-13	19.72	6.17	19.72	6.37	19.63	6.57	19.63	6.68	19.63	6.78	19.54	6.99
	-9.8	-11	20.66	6.33	20.57	6.53	20.57	6.73	20.57	6.83	20.48	6.92	20.48	7.12
	-9.5	-10	21.17	6.42	21.09	6.61	21.09	6.80	21.00	6.90	21.00	7.00	20.91	7.19
	-8.5	-9.1	21.60	6.49	21.51	6.69	21.51	6.87	21.51	6.96	21.43	7.06	21.43	7.24
	-7	-7.6	22.37	6.62	22.37	6.80	22.29	6.98	22.29	7.08	22.29	7.16	22.20	7.35
	-5	-5.6	23.57	6.79	23.48	6.96	23.48	7.13	23.40	7.21	23.40	7.30	23.31	7.48
	-3	-3.7	24.69	6.94	24.69	6.76	24.60	7.27	24.60	7.35	24.60	7.43	23.57	7.12
	0	-0.7	26.66	7.16	26.66	6.98	26.57	7.47	26.14	7.35	25.29	7.04	23.57	6.46
	3	2.2	28.80	7.37	28.71	7.34	27.00	6.95	26.14	6.68	25.29	6.41	23.57	5.89
	5	4.1	30.26	7.51	28.71	7.05	27.00	6.53	26.14	6.29	25.29	6.04	23.57	5.55
	7	6	30.43	7.12	28.71	6.63	27.00	6.15	26.14	5.92	25.29	5.69	23.57	5.23
	9	7.9	30.43	6.69	28.71	6.24	27.00	5.79	26.14	5.50	25.29	5.36	23.57	4.94
	11	9.8	30.43	6.30	28.71	5.88	27.00	5.46	26.14	5.26	25.29	5.06	23.57	4.66
	13	11.8	30.43	5.92	28.71	5.53	27.00	5.14	26.14	4.95	25.29	4.77	23.57	4.40
	15	13.7	30.43	5.58	28.71	5.22	27.00	4.86	26.14	4.68	25.29	4.50	23.57	4.17
90%	-19.8	-20	17.11	6.01	17.03	6.21	17.03	6.43	16.94	6.53	16.94	6.64	16.94	6.85
	-18.8	-19	17.37	6.07	17.37	6.29	17.28	6.49	17.28	6.60	17.28	6.70	17.20	6.91
	-16.7	-17	18.05	6.22	17.97	6.42	17.97	6.62	17.97	6.72	17.88	6.82	17.88	7.02
	-13.7	-15	18.82	6.37	18.74	6.57	18.74	6.76	18.65	6.85	18.65	6.95	18.65	7.14
	-11.8	-13	19.59	6.53	19.59	6.71	19.51	6.89	19.51	6.99	19.51	7.08	19.42	7.26
	-9.8	-11	20.54	6.68	20.54	6.85	20.45	7.03	20.45	7.12	20.45	7.21	20.36	7.39
	-9.5	-10	21.05	6.76	20.96	6.93	20.96	7.10	20.88	7.19	20.88	7.28	20.88	7.44
	-8.5	-9.1	21.48	6.83	21.48	7.00	21.39	7.16	21.39	7.24	21.39	7.33	21.13	7.40
	-7	-7.6	22.25	6.94	22.25	7.10	22.16	7.27	22.16	7.35	22.16	7.43	21.13	7.07
	-5	-5.6	23.44	7.09	23.36	7.24	23.36	7.40	23.27	7.48	22.67	7.24	21.13	6.64
	-3	-3.7	24.56	7.23	24.56	7.37	24.30	7.40	23.44	7.11	22.67	6.82	21.13	6.26
	0	-0.7	26.61	7.44	25.84	7.25	24.30	6.72	23.44	6.45	22.67	6.20	21.13	5.69
	3	2.2	27.38	7.08	25.84	6.60	24.30	6.12	23.44	5.89	22.67	5.65	21.13	5.21
	5	4.1	27.38	6.66	25.84	6.21	24.30	5.77	23.44	5.54	22.67	5.34	21.13	4.91
	7	6	27.38	6.26	25.84	5.85	24.30	5.43	23.44	5.23	22.67	5.03	21.13	4.64
	9	7.9	27.38	5.90	25.84	5.50	24.30	5.12	23.44	4.94	22.67	4.75	21.13	4.39
	11	9.8	27.38	5.56	25.84	5.19	24.30	4.84	23.44	4.66	22.67	4.49	21.13	4.15
	13	11.8	27.38	5.23	25.84	4.90	24.30	4.56	23.44	4.40	22.67	4.24	21.13	3.92
	15	13.7	27.38	4.94	25.84	4.62	24.30	4.32	23.44	4.17	22.67	4.02	21.13	3.72
80%	-19.8	-20	17.06	6.42	16.97	6.61	16.97	6.80	16.97	6.89	16.88	6.99	16.88	7.17
	-18.8	-19	17.31	6.48	17.31	6.67	17.23	6.85	17.23	6.95	17.23	7.04	17.14	7.23
	-16.7	-17	18.00	6.61	17.92	6.79	17.92	6.97	17.92	7.06	17.92	7.15	17.83	7.32
	-13.7	-15	18.77	6.75	18.69	6.92	18.69	7.09	18.69	7.17	18.60	7.26	18.60	7.44
	-11.8	-13	19.54	6.88	19.54	7.05	19.46	7.21	19.46	7.29	19.46	7.38	18.86	7.18
	-9.8	-11	20.49	7.02	20.49	7.18	20.40	7.34	20.40	7.41	20.23	7.40	18.86	6.78
	-9.5	-10	21.00	7.09	20.91	7.24	20.92	7.40	20.92	7.48	20.23	7.18	18.86	6.58
	-8.5	-9.1	21.43	7.16	19.92	7.31	21.34	7.45	20.92	7.28	20.23	6.99	18.86	6.41
	-7	-7.6	22.20	7.26	22.20	7.40	21.60	7.24	20.92	6.96	20.23	6.68	18.86	6.13
	-5	-5.6	23.40	7.39	22.97	7.35	21.60	6.80	20.92	6.54	20.23	6.28	18.86	5.77
	-3	-3.7	24.34	7.43	22.97	6.92	21.60	6.41	20.92	6.17	20.23	5.92	18.86	5.45
	0	-0.7	24.34	6.74	22.97	6.28	21.60	5.83	20.92	5.61	20.23	5.39	18.86	4.97
	3	2.2	24.34	6.14	22.97	5.73	21.60	5.33	20.92	5.13	20.23	4.94	18.86	4.55
	5	4.1	24.34	5.78	22.97	5.40	21.60	5.02	20.92	4.84	20.23	4.66	18.86	4.30
	7	6	24.34	5.45	22.97	5.10	21.60	4.74	20.92	4.58	20.23	4.41	18.86	4.07
	9	7.9	24.34	5.14	22.97	4.81	21.60	4.48	20.92	4.32	20.23	4.17	18.86	3.86
	11	9.8	24.34	4.86	22.97	4.54	21.60	4.24	20.92	4.09	20.23	3.95	18.86	3.66
	13	11.8	24.34	4.58	22.97	4.29	21.60	4.01	20.92	3.87	20.23	3.73	18.86	3.46
	15	13.7	24.34	4.33	22.97	4.07	21.60	3.80	20.92	3.67	20.23	3.54	18.86	3.29
70%	-19.8	-20	16.93	6.84	16.85	7.00	16.85	7.16	16.85	7.24	16.85	7.33	16.42	7.25
	-18.8	-19	17.19	6.89	17.19	7.05	17.10	7.21	17.10	7.29	17.10	7.38	16.42	7.10
	-16.7	-17	17.87	7.00	17.87	7.16	17.79	7.32	17.79	7.40	17.62	7.02	16.42	6.77
	-13.7	-15	18.64	7.12	18.56	7.28	18.56	7.43	18.22	7.32	17.62	6.65	16.42	6.44
	-11.8	-13	19.41	7.24	19.41	7.39	18.90	7.21	18.22	6.93	17.62	6.59	16.42	6.10
	-9.8	-11	20.35	7.36	20.10	7.36	18.90	6.81	18.22	6.55	17.62	6.59	16.42	5.77
	-9.5	-10	20.87	7.43	20.10	7.14	18.90	6.61	18.22	6.36	17.62	6.29	16.42	5.61
	-8.5	-9.1	21.29	7.47	20.10	6.95	18.90	6.44	18.22	6.19	17.62	6.11	16.42	5.47
	-7	-7.6	21.29	7.13	20.10	6.64	18.90	6.16	18.22	5.93	17.62	5.95	16.42	5.24

	-5	-5.6	21.29	6.70	20.10	6.25	18.90	5.80	18.22	5.57	17.62	5.69	16.42	4.94
	-3	-3.7	21.29	6.31	20.10	5.89	18.90	5.47	18.22	5.26	17.62	5.06	16.42	4.67
	0	-0.7	21.29	5.74	20.10	5.37	18.90	4.99	18.22	4.81	17.62	4.63	16.42	4.28
	3	2.2	21.29	5.25	20.10	4.91	18.90	4.58	18.22	4.41	17.62	4.25	16.42	3.93
	5	4.1	21.29	4.95	20.10	4.63	18.90	4.33	18.22	4.17	17.62	4.02	16.42	3.72
	7	6	21.29	4.68	20.10	4.38	18.90	4.09	18.22	3.95	17.62	3.81	16.42	3.53
	9	7.9	21.29	4.42	20.10	4.15	18.90	3.87	18.22	3.74	17.62	3.61	16.42	3.35
	11	9.8	21.29	4.18	20.10	3.92	18.90	3.67	18.22	3.55	17.62	3.43	16.42	3.18
	13	11.8	21.29	3.95	20.10	3.71	18.90	3.47	18.22	3.36	17.62	3.24	16.42	3.02
	15	13.7	21.29	3.75	20.10	3.52	18.90	3.30	18.22	3.19	17.62	3.08	16.42	2.88
60%	-19.8	-20	16.89	7.25	16.80	7.39	16.20	7.11	15.69	6.83	15.17	6.56	14.14	6.01
	-18.8	-19	17.14	7.30	17.14	7.44	16.20	6.96	15.69	6.68	15.17	6.41	14.14	5.89
	-16.7	-17	17.83	7.40	17.23	7.16	16.20	6.64	15.69	6.38	15.17	6.13	14.14	5.63
	-13.7	-15	18.26	7.32	17.23	6.80	16.20	6.31	15.69	6.07	15.17	5.83	14.14	5.36
	-11.8	-13	18.26	6.92	17.23	6.44	16.20	5.98	15.69	5.76	15.17	5.53	14.14	5.12
	-9.8	-11	18.26	6.54	17.23	6.09	16.20	5.66	15.69	5.45	15.17	5.24	14.14	4.83
	-9.5	-10	18.26	6.36	17.23	5.93	16.20	5.50	15.69	5.30	15.17	5.10	14.14	4.70
	-8.5	-9.1	18.26	6.19	17.23	5.77	16.20	5.37	15.69	5.17	15.17	4.97	14.14	4.58
	-7	-7.6	18.26	5.92	17.23	5.53	16.20	5.14	15.69	4.95	15.17	4.76	14.14	4.40
	-5	-5.6	18.26	5.57	17.23	5.21	16.20	4.85	15.69	4.67	15.17	4.50	14.14	4.16
	-3	-3.7	18.26	5.26	17.23	4.92	16.20	4.58	15.69	4.42	15.17	4.26	14.14	3.94
	0	-0.7	18.26	4.81	17.23	4.50	16.20	4.20	15.69	4.06	15.17	3.91	14.14	3.62
	3	2.2	18.26	4.41	17.23	4.14	16.20	3.87	15.69	3.73	15.17	3.60	14.14	3.34
	5	4.1	18.26	4.17	17.23	3.91	16.20	3.66	15.69	3.54	15.17	3.41	14.14	3.17
	7	6	18.26	3.95	17.23	3.71	16.20	3.47	15.69	3.35	15.17	3.24	14.14	3.01
	9	7.9	18.26	3.74	17.23	3.51	16.20	3.29	15.69	3.19	15.17	3.07	14.14	2.87
	11	9.8	18.26	3.55	17.23	3.34	16.20	3.13	15.69	3.03	15.17	2.92	14.14	2.73
	13	11.8	18.26	3.35	17.23	3.16	16.20	2.97	15.69	2.88	15.17	2.78	14.14	2.60
	15	13.7	18.26	3.19	17.23	3.00	16.20	2.83	15.69	2.74	15.17	2.65	14.14	2.48
50%	-19.8	-20	15.21	6.60	14.35	6.14	13.50	5.70	12.99	5.49	12.56	5.28	11.71	4.86
	-18.8	-19	15.21	6.45	14.35	6.01	13.50	5.59	12.99	5.38	12.56	5.17	11.71	4.77
	-16.7	-17	15.21	6.16	14.35	5.74	13.50	5.34	12.99	5.14	12.56	4.95	11.71	4.57
	-13.7	-15	15.21	5.86	14.35	5.47	13.50	5.09	12.99	4.90	12.56	4.72	11.71	4.36
	-11.8	-13	15.21	5.57	14.35	5.20	13.50	4.84	12.99	4.66	12.56	4.49	11.71	4.15
	-9.8	-11	15.21	5.27	14.35	4.93	13.50	4.59	12.99	4.42	12.56	4.26	11.71	3.95
	-9.5	-10	15.21	5.13	14.35	4.79	13.50	4.47	12.99	4.31	12.56	4.15	11.71	3.84
	-8.5	-9.1	15.21	5.00	14.35	4.68	13.50	4.36	12.99	4.21	12.56	4.06	11.71	3.75
	-7	-7.6	15.21	4.79	14.35	4.49	13.50	4.18	12.99	4.04	12.56	3.90	11.71	3.61
	-5	-5.6	15.21	4.52	14.35	4.24	13.50	3.96	12.99	3.83	12.56	3.69	11.71	3.42
	-3	-3.7	15.21	4.28	14.35	4.02	13.50	3.75	12.99	3.63	12.56	3.50	11.71	3.25
	0	-0.7	15.21	3.93	14.35	3.69	13.50	3.46	12.99	3.34	12.56	3.23	11.71	3.00
	3	2.2	15.21	3.62	14.35	3.40	13.50	3.19	12.99	3.08	12.56	2.98	11.71	2.78
	5	4.1	15.21	3.43	14.35	3.23	13.50	3.03	12.99	2.93	12.56	2.84	11.71	2.64
	7	6	15.21	3.26	14.35	3.07	13.50	2.88	12.99	2.79	12.56	2.70	11.71	2.52
	9	7.9	15.21	3.09	14.35	2.92	13.50	2.74	12.99	2.66	12.56	2.57	11.71	2.40
	11	9.8	15.21	2.94	14.35	2.77	13.50	2.61	12.99	2.53	12.56	2.45	11.71	2.29
	13	11.8	15.21	2.80	14.35	2.64	13.50	2.48	12.99	2.41	12.56	2.33	11.71	2.19
	15	13.7	15.21	2.66	14.35	2.52	13.50	2.37	12.99	2.30	12.56	2.23	11.71	2.09

Note:

1, is shown as reference

2, The above table shows the average value of conditions may operate

3, It is recommended to connect less than 130%

10HP cooling mode

Combination (%) (Capacity index)	Outdoor temperature(°C DB)	Indoor temperature(°C WB)													
		DB:20.8,WB:14		DB:23.3,WB:16		DB:25.8,WB:18		DB:27,WB:19		DB:28.2,WB:20		DB:30.7,WB:22		DB:32,WB:24	
		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	24.60	3.32	29.30	4.06	34.00	4.82	35.30	4.93	35.70	4.83	36.60	4.63	37.50	4.41
	12	24.60	3.38	29.30	4.13	34.00	4.92	34.80	4.90	35.30	4.80	36.10	4.59	37.00	4.52
	14	24.60	3.44	29.30	4.21	33.90	4.98	34.40	4.92	34.80	4.77	35.70	4.73	36.60	4.78
	16	24.60	3.50	29.30	4.30	33.50	4.96	33.90	4.88	34.30	4.94	35.20	4.99	36.10	5.04
	18	24.60	3.57	29.30	4.39	33.00	5.14	33.40	5.17	33.90	5.20	34.80	5.25	35.70	5.30
	19	24.60	3.65	29.30	4.67	32.50	5.39	33.00	5.42	33.40	5.45	34.30	5.50	35.20	5.56
	21	24.60	3.74	29.30	4.83	32.30	5.52	32.80	5.55	33.20	5.58	34.10	5.64	35.00	5.69
	23	24.60	4.02	29.30	5.18	31.90	5.77	32.30	5.80	32.70	5.83	33.60	5.89	34.50	5.95
	25	24.60	4.29	29.30	5.55	31.40	6.02	31.80	6.05	32.30	6.09	33.20	6.15	34.10	6.21
	27	24.60	4.58	29.30	5.94	31.00	6.28	31.40	6.32	31.80	6.34	32.70	6.41	33.60	6.48
	29	24.60	4.89	29.30	6.34	30.50	6.53	30.90	6.57	31.40	6.61	32.30	6.68	33.20	6.74
	31	24.60	5.22	29.20	6.71	30.00	6.79	30.50	6.83	30.90	6.86	31.80	6.94	32.70	7.01
	33	24.60	5.56	28.70	6.97	29.60	7.04	30.00	7.08	30.50	7.12	31.40	7.20	32.20	7.28
	35	24.60	5.93	28.20	7.22	29.10	7.31	29.60	7.34	30.00	7.38	30.90	7.47	31.80	7.55
	37	24.60	6.31	27.80	7.48	28.70	7.57	29.10	7.61	29.60	7.65	30.40	7.74	31.30	7.83
	39	24.60	6.72	27.30	7.56	28.20	7.82	28.70	7.87	29.10	7.92	30.00	8.01	30.90	8.10
	42	24.60	7.07	27.02	7.63	27.90	7.89	28.40	7.94	28.80	7.99	29.70	8.02	29.71	8.18
	44	24.60	7.43	26.74	7.71	27.61	7.94	28.11	8.02	28.21	8.01	28.62	8.05	29.01	8.21
	46	24.60	7.79	26.62	7.78	27.31	8.04	27.81	8.05	27.97	8.07	28.12	8.08	28.56	8.48
120%	10	22.70	3.03	27.00	3.70	31.40	4.39	33.60	4.75	35.20	4.96	36.00	4.76	36.80	4.58
	12	22.70	3.09	27.00	3.76	31.40	4.48	33.60	4.84	34.70	4.93	35.50	4.74	36.30	4.55
	14	22.70	3.14	27.00	3.84	31.40	4.57	33.60	4.94	34.20	4.90	35.10	4.71	35.90	4.74
	16	22.70	3.20	27.00	3.92	31.40	4.66	33.40	4.98	33.80	4.91	34.60	4.96	35.40	5.00
	18	22.70	3.26	27.00	4.00	31.40	4.81	32.90	5.14	33.30	5.16	34.10	5.21	35.00	5.26
	19	22.70	3.33	27.00	4.15	31.40	5.18	32.50	5.39	32.90	5.41	33.70	5.46	34.50	5.51
	21	22.70	3.36	27.00	4.30	31.40	5.36	32.20	5.52	32.60	5.54	33.50	5.59	34.30	5.65
	23	22.70	3.59	27.00	4.61	31.40	5.74	31.80	5.76	32.20	5.79	33.00	5.85	33.80	5.90
	25	22.70	3.83	27.00	4.93	30.90	6.00	31.30	6.01	31.70	6.04	32.60	6.10	33.40	6.16
	27	22.70	4.09	27.00	5.27	30.50	6.24	30.90	6.28	31.30	6.31	32.10	6.36	32.90	6.42
	29	22.70	4.37	27.00	5.63	30.00	6.49	30.40	6.53	30.80	6.56	31.60	6.63	32.50	6.68
	31	22.70	4.66	27.00	6.00	29.50	6.75	30.00	6.78	30.40	6.82	31.20	6.89	32.00	6.96
	33	22.70	4.96	27.00	6.40	29.10	7.00	29.50	7.04	29.90	7.07	30.70	7.15	31.50	7.22
	35	22.70	5.28	27.00	6.83	28.60	7.26	29.00	7.30	29.50	7.33	30.30	7.41	31.10	7.49
	37	22.70	5.62	27.00	7.28	28.20	7.52	28.60	7.56	29.00	7.60	29.80	7.67	30.60	7.76
	39	22.70	5.98	26.90	7.69	27.70	7.77	28.10	7.82	28.50	7.86	29.40	7.95	30.20	8.02
	42	22.70	6.20	26.61	7.76	27.41	7.85	27.81	7.89	28.21	7.93	29.11	7.98	29.04	8.11
	44	22.70	6.27	26.47	7.83	27.12	7.90	27.52	7.92	27.92	7.95	28.24	8.01	28.71	8.39
	46	22.70	6.34	26.32	7.90	26.89	7.99	27.23	8.04	27.72	8.06	27.95	8.03	28.46	8.46
110%	10	20.80	2.75	24.80	3.35	28.80	3.98	30.80	4.30	32.80	4.63	35.30	4.91	36.10	4.74
	12	20.80	2.80	24.80	3.41	28.80	4.06	30.80	4.39	32.80	4.71	34.90	4.89	35.60	4.71
	14	20.80	2.85	24.80	3.47	28.80	4.13	30.80	4.46	32.80	4.80	34.40	4.86	35.20	4.71
	16	20.80	2.90	24.80	3.54	28.80	4.21	30.80	4.55	32.80	4.90	34.00	4.92	34.70	4.97
	18	20.80	2.96	24.80	3.61	28.80	4.30	30.80	4.68	32.80	5.13	33.50	5.17	34.30	5.22
	19	20.80	3.02	24.80	3.69	28.80	4.55	30.80	5.03	32.30	5.38	33.10	5.42	33.80	5.47
	21	20.80	3.05	24.80	3.79	28.80	4.71	30.80	5.21	32.10	5.51	32.80	5.55	33.60	5.60
	23	20.80	3.19	24.80	4.06	28.80	5.05	30.80	5.59	31.60	5.75	32.40	5.81	33.10	5.86
	25	20.80	3.41	24.80	4.35	28.80	5.40	30.80	5.99	31.20	6.00	31.90	6.06	32.70	6.11
	27	20.80	3.63	24.80	4.65	28.80	5.78	30.30	6.24	30.70	6.26	31.50	6.32	32.20	6.37
	29	20.80	3.87	24.80	4.96	28.80	6.18	29.90	6.49	30.30	6.52	31.00	6.58	31.80	6.64
	31	20.80	4.12	24.80	5.29	28.80	6.60	29.40	6.74	29.80	6.77	30.60	6.83	31.30	6.90
	33	20.80	4.39	24.80	5.64	28.60	6.96	29.00	6.99	29.40	7.02	30.10	7.09	30.90	7.16
	35	20.80	4.67	24.80	6.00	28.10	7.21	28.50	7.25	28.90	7.29	29.60	7.35	30.40	7.42
	37	20.80	4.97	24.80	6.39	27.70	7.47	28.10	7.50	28.40	7.54	29.20	7.62	29.90	7.68
	39	20.80	5.28	24.80	6.81	27.20	7.72	27.60	7.76	28.00	7.80	28.70	7.88	29.50	7.96
	42	20.80	5.35	24.80	6.89	26.92	7.80	27.32	7.84	27.72	7.87	28.22	7.95	28.32	8.03
	44	20.80	5.42	24.80	6.96	26.63	7.87	27.03	7.91	27.43	7.95	27.95	7.97	28.03	8.32
	46	20.80	5.56	24.80	7.03	26.38	7.94	26.75	8.03	27.23	8.02	27.65	8.39	27.79	8.41
100%	10	18.90	2.48	22.50	3.01	26.20	3.56	28.00	3.85	29.80	4.14	33.50	4.73	35.40	4.90
	12	18.90	2.52	22.50	3.07	26.20	3.63	28.00	3.92	29.80	4.22	33.50	4.82	34.90	4.87

	14	18.90	2.57	22.50	3.12	26.20	3.70	28.00	4.00	29.80	4.30	33.50	4.92	34.50	4.84
	16	18.90	2.62	22.50	3.18	26.20	3.77	28.00	4.07	29.80	4.39	33.30	4.98	34.00	4.93
	18	18.90	2.67	22.50	3.24	26.20	3.84	28.00	4.15	29.80	4.47	32.90	5.14	33.60	5.18
	19	18.90	2.72	22.50	3.31	26.20	3.96	28.00	4.36	29.80	4.79	32.40	5.38	33.10	5.43
	21	18.90	2.75	22.50	3.34	26.20	4.10	28.00	4.52	29.80	4.96	32.20	5.51	32.90	5.56
	23	18.90	2.81	22.50	3.56	26.20	4.39	28.00	4.84	29.80	5.32	31.80	5.76	32.40	5.81
	25	18.90	3.00	22.50	3.80	26.20	4.70	28.00	5.19	29.80	5.69	31.30	6.01	32.00	6.06
	27	18.90	3.20	22.50	4.05	26.20	5.02	28.00	5.55	29.80	6.09	30.80	6.27	31.50	6.32
	29	18.90	3.40	22.50	4.33	26.20	5.36	28.00	5.93	29.70	6.47	30.40	6.53	31.10	6.58
	31	18.90	3.63	22.50	4.62	26.20	5.72	28.00	6.32	29.30	6.72	29.90	6.78	30.60	6.84
	33	18.90	3.85	22.50	4.92	26.20	6.10	28.00	6.75	28.80	6.97	29.50	7.03	30.20	7.10
	35	18.90	4.09	22.50	5.23	26.20	6.51	28.00	7.20	28.30	7.23	29.00	7.29	29.70	7.35
	37	18.90	4.36	22.50	5.57	26.20	6.94	27.50	7.45	27.90	7.49	28.60	7.56	29.20	7.62
	39	18.90	4.63	22.50	5.92	26.20	7.38	27.10	7.70	27.40	7.74	28.10	7.81	28.80	7.89
	42	18.90	4.92	22.50	6.21	26.20	7.74	26.54	7.78	27.12	7.90	27.45	8.00	28.24	8.11
	44	18.90	5.20	22.50	6.50	26.20	7.85	25.98	7.92	26.87	7.97	28.10	8.10	27.52	8.18
	46	18.90	5.49	22.50	6.78	26.20	8.01	25.42	7.99	26.84	8.19	26.98	8.24	27.12	8.32
90%	10	17.00	2.22	20.30	2.68	23.60	3.16	25.20	3.41	26.80	3.67	30.10	4.19	33.40	4.72
	12	17.00	2.26	20.30	2.73	23.60	3.22	25.20	3.47	26.80	3.73	30.10	4.27	33.40	4.81
	14	17.00	2.30	20.30	2.77	23.60	3.28	25.20	3.54	26.80	3.80	30.10	4.35	33.40	4.90
	16	17.00	2.34	20.30	2.82	23.60	3.35	25.20	3.61	26.80	3.88	30.10	4.43	33.30	4.99
	18	17.00	2.38	20.30	2.88	23.60	3.40	25.20	3.68	26.80	3.96	30.10	4.52	32.90	5.14
	19	17.00	2.42	20.30	2.95	23.60	3.47	25.20	3.75	26.80	4.10	30.10	4.86	32.40	5.38
	21	17.00	2.44	20.30	2.97	23.60	3.53	25.20	3.88	26.80	4.25	30.10	5.03	32.20	5.51
	23	17.00	2.49	20.30	3.08	23.60	3.78	25.20	4.16	26.80	4.56	30.10	5.40	31.70	5.76
	25	17.00	2.63	20.30	3.30	23.60	4.04	25.20	4.45	26.80	4.87	30.10	5.78	31.30	6.01
	27	17.00	2.79	20.30	3.51	23.60	4.32	25.20	4.75	26.80	5.21	30.10	6.19	30.80	6.27
	29	17.00	2.98	20.30	3.74	23.60	4.61	25.20	5.07	26.80	5.57	29.80	6.47	30.40	6.52
	31	17.00	3.16	20.30	3.99	23.60	4.91	25.20	5.41	26.80	5.94	29.30	6.72	29.90	6.78
	33	17.00	3.36	20.30	4.24	23.60	5.24	25.20	5.77	26.80	6.33	28.90	6.98	29.50	7.03
	35	17.00	3.57	20.30	4.51	23.60	5.58	25.20	6.15	26.80	6.75	28.40	7.24	29.00	7.29
	37	17.00	3.78	20.30	4.79	23.60	5.94	25.20	6.55	26.80	7.20	27.90	7.49	28.60	7.55
	39	17.00	4.02	20.30	5.10	23.60	6.32	25.20	6.98	26.80	7.67	27.50	7.75	28.10	7.81
	42	17.00	4.20	20.30	5.41	23.60	6.62	25.20	7.22	26.80	7.73	27.24	8.02	27.85	8.06
	44	17.00	4.51	20.30	5.72	23.60	6.93	25.20	7.47	26.80	8.03	27.09	8.09	27.49	8.18
	46	17.00	4.02	20.30	5.10	23.60	6.31	25.20	6.97	26.80	7.66	27.50	7.75	28.10	7.81
80%	10	15.10	1.97	18.00	2.36	20.90	2.77	22.40	2.99	23.90	3.20	26.80	3.66	29.70	4.12
	12	15.10	2.00	18.00	2.40	20.90	2.82	22.40	3.05	23.90	3.27	26.80	3.73	29.70	4.20
	14	15.10	2.04	18.00	2.44	20.90	2.87	22.40	3.09	23.90	3.33	26.80	3.79	29.70	4.28
	16	15.10	2.07	18.00	2.48	20.90	2.93	22.40	3.15	23.90	3.39	26.80	3.87	29.70	4.36
	18	15.10	2.11	18.00	2.53	20.90	2.99	22.40	3.22	23.90	3.45	26.80	3.95	29.70	4.44
	19	15.10	2.14	18.00	2.58	20.90	3.05	22.40	3.28	23.90	3.52	26.80	4.09	29.70	4.75
	21	15.10	2.16	18.00	2.60	20.90	3.08	22.40	3.32	23.90	3.60	26.80	4.24	29.70	4.93
	23	15.10	2.20	18.00	2.66	20.90	3.22	22.40	3.53	23.90	3.85	26.80	4.54	29.70	5.29
	25	15.10	2.27	18.00	2.82	20.90	3.44	22.40	3.77	23.90	4.11	26.80	4.86	29.70	5.66
	27	15.10	2.42	18.00	3.01	20.90	3.67	22.40	4.03	23.90	4.39	26.80	5.19	29.70	6.05
	29	15.10	2.57	18.00	3.20	20.90	3.91	22.40	4.29	23.90	4.70	26.80	5.54	29.70	6.47
	31	15.10	2.73	18.00	3.41	20.90	4.16	22.40	4.57	23.90	5.01	26.80	5.92	29.20	6.72
	33	15.10	2.90	18.00	3.62	20.90	4.43	22.40	4.87	23.90	5.33	26.80	6.31	28.80	6.97
	35	15.10	3.08	18.00	3.85	20.90	4.71	22.40	5.18	23.90	5.68	26.80	6.72	28.30	7.23
	37	15.10	3.26	18.00	4.08	20.90	5.02	22.40	5.52	23.90	6.04	26.80	7.17	27.90	7.48
	39	15.10	3.45	18.00	4.36	20.90	5.34	22.40	5.87	23.90	6.43	26.80	7.64	27.40	7.74
	42	15.10	3.56	18.00	4.41	20.90	5.44	22.40	6.08	23.90	6.59	26.80	7.90	27.18	7.93
	44	15.10	3.71	18.00	4.46	20.90	5.54	22.40	6.18	23.90	6.69	26.80	7.95	26.95	8.00
	46	15.10	3.45	18.00	4.36	20.90	5.34	22.40	5.87	23.90	6.43	26.80	7.63	27.40	7.74
70%	10	13.20	1.74	15.80	2.06	18.30	2.40	19.60	2.58	20.90	2.76	23.40	3.14	26.00	3.53
	12	13.20	1.76	15.80	2.09	18.30	2.44	19.60	2.63	20.90	2.81	23.40	3.20	26.00	3.60
	14	13.20	1.78	15.80	2.12	18.30	2.48	19.60	2.67	20.90	2.86	23.40	3.26	26.00	3.67
	16	13.20	1.81	15.80	2.16	18.30	2.53	19.60	2.73	20.90	2.92	23.40	3.32	26.00	3.73
	18	13.20	1.84	15.80	2.20	18.30	2.58	19.60	2.77	20.90	2.97	23.40	3.39	26.00	3.81
	19	13.20	1.87	15.80	2.24	18.30	2.63	19.60	2.82	20.90	3.03	23.40	3.45	26.00	3.92
	21	13.20	1.89	15.80	2.26	18.30	2.65	19.60	2.85	20.90	3.06	23.40	3.50	26.00	4.05
	23	13.20	1.92	15.80	2.30	18.30	2.71	19.60	2.95	20.90	3.21	23.40	3.75	26.00	4.35
	25	13.20	1.96	15.80	2.40	18.30	2.88	19.60	3.15	20.90	3.42	23.40	4.02	26.00	4.65

	27	13.20	2.08	15.80	2.55	18.30	3.08	19.60	3.36	20.90	3.66	23.40	4.29	26.00	4.97
	29	13.20	2.20	15.80	2.71	18.30	3.27	19.60	3.58	20.90	3.89	23.40	4.57	26.00	5.31
	31	13.20	2.33	15.80	2.87	18.30	3.48	19.60	3.80	20.90	4.14	23.40	4.87	26.00	5.66
	33	13.20	2.47	15.80	3.06	18.30	3.71	19.60	4.05	20.90	4.41	23.40	5.19	26.00	6.03
	35	13.20	2.62	15.80	3.24	18.30	3.93	19.60	4.31	20.90	4.70	23.40	5.53	26.00	6.43
	37	13.20	2.76	15.80	3.43	18.30	4.18	19.60	4.57	20.90	5.00	23.40	5.89	26.00	6.85
	39	13.20	2.93	15.80	3.64	18.30	4.43	19.60	4.86	20.90	5.31	23.40	6.26	26.00	7.30
	42	13.20	3.10	15.80	3.81	18.30	4.61	19.60	5.08	20.90	5.52	23.40	6.60	26.00	7.73
	44	13.20	3.31	15.80	4.03	18.30	4.75	19.60	5.29	20.90	5.74	23.40	6.91	26.00	7.99
	46	13.20	3.46	15.80	4.20	18.30	4.95	19.60	5.46	20.90	5.91	23.40	7.12	26.00	8.16
60%	10	11.30	1.50	13.50	1.77	15.70	2.05	16.80	2.19	17.90	2.34	20.10	2.65	22.30	2.97
	12	11.30	1.53	13.50	1.79	15.70	2.09	16.80	2.23	17.90	2.38	20.10	2.70	22.30	3.02
	14	11.30	1.55	13.50	1.82	15.70	2.11	16.80	2.27	17.90	2.42	20.10	2.75	22.30	3.07
	16	11.30	1.57	13.50	1.85	15.70	2.15	16.80	2.31	17.90	2.46	20.10	2.79	22.30	3.13
	18	11.30	1.60	13.50	1.88	15.70	2.19	16.80	2.35	17.90	2.51	20.10	2.84	22.30	3.19
	19	11.30	1.62	13.50	1.92	15.70	2.23	16.80	2.40	17.90	2.56	20.10	2.90	22.30	3.26
	21	11.30	1.64	13.50	1.93	15.70	2.25	16.80	2.41	17.90	2.58	20.10	2.93	22.30	3.29
	23	11.30	1.66	13.50	1.97	15.70	2.29	16.80	2.46	17.90	2.63	20.10	3.05	22.30	3.50
	25	11.30	1.69	13.50	2.00	15.70	2.38	16.80	2.58	17.90	2.79	20.10	3.25	22.30	3.73
	27	11.30	1.76	13.50	2.12	15.70	2.53	16.80	2.75	17.90	2.98	20.10	3.46	22.30	3.99
	29	11.30	1.85	13.50	2.25	15.70	2.70	16.80	2.93	17.90	3.17	20.10	3.70	22.30	4.26
	31	11.30	1.97	13.50	2.39	15.70	2.86	16.80	3.11	17.90	3.38	20.10	3.93	22.30	4.53
	33	11.30	2.08	13.50	2.53	15.70	3.04	16.80	3.31	17.90	3.59	20.10	4.18	22.30	4.83
	35	11.30	2.20	13.50	2.69	15.70	3.22	16.80	3.51	17.90	3.81	20.10	4.45	22.30	5.14
	37	11.30	2.33	13.50	2.84	15.70	3.41	16.80	3.72	17.90	4.04	20.10	4.73	22.30	5.47
	39	11.30	2.45	13.50	3.01	15.70	3.62	16.80	3.95	17.90	4.30	20.10	5.03	22.30	5.82
	42	11.30	2.56	13.50	3.18	15.70	3.79	16.80	4.16	17.90	4.51	20.10	5.34	22.30	6.17
	44	11.30	2.67	13.50	3.36	15.70	3.97	16.80	4.30	17.90	4.71	20.10	5.63	22.30	6.52
	46	11.30	2.45	13.50	3.01	15.70	3.62	16.80	3.95	17.90	4.30	20.10	5.02	22.30	5.82
50%	10	9.45	1.30	11.30	1.50	13.10	1.72	14.00	1.83	14.90	1.94	16.70	2.18	18.60	2.43
	12	9.45	1.31	11.30	1.52	13.10	1.75	14.00	1.85	14.90	1.98	16.70	2.22	18.60	2.47
	14	9.45	1.33	11.30	1.54	13.10	1.77	14.00	1.89	14.90	2.01	16.70	2.26	18.60	2.52
	16	9.45	1.35	11.30	1.56	13.10	1.79	14.00	1.92	14.90	2.04	16.70	2.30	18.60	2.56
	18	9.45	1.37	11.30	1.59	13.10	1.82	14.00	1.95	14.90	2.08	16.70	2.34	18.60	2.61
	19	9.45	1.39	11.30	1.61	13.10	1.85	14.00	1.98	14.90	2.11	16.70	2.38	18.60	2.66
	21	9.45	1.40	11.30	1.63	13.10	1.87	14.00	2.00	14.90	2.13	16.70	2.41	18.60	2.69
	23	9.45	1.42	11.30	1.65	13.10	1.90	14.00	2.04	14.90	2.17	16.70	2.44	18.60	2.74
	25	9.45	1.44	11.30	1.68	13.10	1.94	14.00	2.08	14.90	2.24	16.70	2.57	18.60	2.93
	27	9.45	1.46	11.30	1.75	13.10	2.05	14.00	2.21	14.90	2.38	16.70	2.74	18.60	3.12
	29	9.45	1.54	11.30	1.84	13.10	2.17	14.00	2.35	14.90	2.53	16.70	2.91	18.60	3.33
	31	9.45	1.63	11.30	1.95	13.10	2.30	14.00	2.49	14.90	2.69	16.70	3.09	18.60	3.54
	33	9.45	1.73	11.30	2.07	13.10	2.44	14.00	2.64	14.90	2.85	16.70	3.29	18.60	3.76
	35	9.45	1.82	11.30	2.18	13.10	2.58	14.00	2.79	14.90	3.02	16.70	3.49	18.60	4.00
	37	9.45	1.92	11.30	2.31	13.10	2.74	14.00	2.96	14.90	3.20	16.70	3.71	18.60	4.25
	39	9.45	2.03	11.30	2.44	13.10	2.89	14.00	3.13	14.90	3.40	16.70	3.93	18.60	4.51
	42	9.45	2.14	11.30	2.57	13.10	3.03	14.00	3.33	14.90	3.59	16.70	4.21	18.60	4.79
	44	9.45	2.25	11.30	2.71	13.10	3.17	14.00	3.53	14.90	3.68	16.70	4.49	18.60	5.07
	46	9.45	2.35	11.30	2.85	13.10	3.31	14.00	3.69	14.90	3.79	16.70	4.77	18.60	5.35

Note:

1, is shown as reference

2, The above table shows the average value of conditions may operate

3, It is recommended to connect less than 130%

10HP heating mode

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	kW
130%	-19.8	-20	20.40	5.65	20.30	5.95	20.20	6.30	20.20	6.52	20.10	6.68	20.10	7.08
	-18.8	-19	20.70	5.72	20.60	6.04	20.60	6.41	20.50	6.59	20.50	6.79	20.40	7.17
	-16.7	-17	21.50	5.92	21.40	6.26	21.30	6.64	21.30	6.83	21.30	7.01	21.20	7.37
	-13.7	-15	22.40	6.18	22.30	6.50	22.20	6.89	22.20	7.06	22.10	7.24	22.10	7.60
	-11.8	-13	23.30	6.40	23.30	6.77	23.20	7.13	23.10	7.30	23.10	7.48	23.00	7.81
	-9.8	-11	24.40	6.70	24.30	7.06	24.20	7.38	24.20	7.55	24.20	7.71	24.10	8.03
	-9.5	-10	25.00	6.81	24.90	7.19	24.80	7.51	24.80	7.67	24.70	7.82	24.70	8.13
	-8.5	-9.1	25.50	6.95	25.40	7.30	25.40	7.62	25.30	7.77	25.30	7.92	25.20	8.24
	-7	-7.6	26.40	7.14	26.40	7.51	26.30	7.80	26.30	7.95	26.20	8.09	26.10	8.40
	-5	-5.6	27.80	7.48	27.70	7.76	27.60	8.04	27.60	8.19	27.50	8.32	27.50	8.60
	-3	-3.7	29.10	7.72	29.00	7.99	29.00	8.26	28.90	8.40	28.90	8.53	28.80	8.79
	0	-0.7	31.40	8.09	31.40	8.35	31.30	8.59	31.30	8.68	31.20	8.84	31.20	9.09
	3	2.2	33.90	8.43	33.80	8.66	33.70	8.90	33.70	9.01	33.70	9.13	33.60	9.35
	5	4.1	35.60	8.64	35.50	8.87	35.50	9.08	35.40	9.19	35.40	9.30	35.30	9.51
	7	6	37.40	8.85	37.30	9.05	37.30	9.26	37.20	9.36	37.20	9.46	35.70	9.09
	9	7.9	39.30	9.03	39.20	9.23	39.20	9.42	39.10	9.52	38.30	9.32	35.70	8.54
	11	9.8	41.30	9.21	41.20	9.39	41.00	9.51	39.60	9.14	38.30	8.76	35.70	8.04
	13	11.8	43.50	9.38	43.40	9.57	41.00	8.92	39.60	8.56	38.30	8.23	35.70	7.55
	15	13.7	45.60	9.54	43.60	9.06	41.00	8.40	39.60	8.07	38.30	7.75	35.70	7.12
120%	-19.8	-20	20.30	5.78	20.20	6.08	20.10	6.42	20.10	6.59	20.10	6.76	20.00	7.11
	-18.8	-19	20.60	5.85	20.50	6.18	20.50	6.52	20.40	6.68	20.40	6.86	20.30	7.19
	-16.7	-17	21.40	6.08	21.30	6.40	21.17	6.72	21.20	6.89	21.20	7.05	21.10	7.37
	-13.7	-15	22.30	6.32	22.20	6.63	22.10	6.93	22.10	7.10	22.10	7.25	22.00	7.56
	-11.8	-13	23.20	6.56	23.20	6.86	23.10	7.16	23.10	7.31	23.00	7.45	23.00	7.75
	-9.8	-11	24.30	6.81	24.20	7.09	24.20	7.38	24.10	7.52	24.10	7.66	24.00	7.94
	-9.5	-10	24.90	6.93	24.80	7.21	24.70	7.48	24.70	7.63	24.70	7.76	24.60	8.04
	-8.5	-9.1	25.40	7.04	25.30	7.31	25.30	7.58	25.20	7.71	25.20	7.86	25.10	8.13
	-7	-7.6	26.30	7.22	26.30	7.48	26.20	7.74	26.20	7.88	26.10	8.00	26.10	8.26
	-5	-5.6	27.70	7.45	27.60	7.70	27.50	7.95	27.50	8.08	27.50	8.20	27.40	8.45
	-3	-3.7	29.00	7.68	29.00	7.92	28.90	8.15	28.90	8.26	28.80	8.39	28.80	8.62
	0	-0.7	31.30	8.00	31.30	8.22	31.20	8.44	31.20	8.55	31.10	8.66	31.10	8.88
	3	2.2	33.80	8.30	33.70	8.50	33.70	8.71	33.60	8.81	33.60	8.91	32.90	8.86
	5	4.1	35.50	8.48	35.40	8.68	35.40	8.87	35.30	8.97	35.30	9.06	32.90	8.32
	7	6	37.30	8.66	37.30	8.84	37.20	9.02	36.60	8.90	35.40	8.53	32.90	7.83
	9	7.9	39.20	8.83	39.10	9.00	37.80	8.71	36.60	8.36	35.40	8.02	32.90	7.37
	11	9.8	41.20	8.98	40.20	8.83	37.80	8.19	36.60	7.87	35.40	7.55	32.90	6.94
	13	11.8	42.70	8.90	40.20	8.28	37.80	7.68	36.60	7.39	35.40	7.10	32.90	6.53
	15	13.7	42.70	8.38	40.20	7.80	37.80	7.24	36.60	6.96	35.40	6.69	32.90	6.16
110%	-19.8	-20	20.20	6.40	20.10	6.72	20.00	7.05	20.00	7.21	20.01	7.36	19.90	7.69
	-18.8	-19	20.50	6.50	20.40	6.82	20.40	7.14	20.40	7.29	20.30	7.45	20.30	7.77
	-16.7	-17	21.30	6.72	21.20	7.03	21.50	7.33	21.10	7.48	21.10	7.64	21.00	7.94
	-13.7	-15	22.20	6.95	22.10	7.24	22.00	7.43	22.00	7.68	22.00	7.83	21.90	8.11
	-11.8	-13	23.10	7.18	23.10	7.46	23.00	7.74	23.00	7.88	22.90	8.02	22.90	8.30
	-9.8	-11	24.20	7.41	24.10	7.68	24.10	7.95	24.00	8.08	24.00	8.21	24.00	8.48
	-9.5	-10	24.80	7.53	24.70	7.79	24.60	8.06	24.60	8.18	24.60	8.31	24.50	8.47
	-8.5	-9.1	25.30	7.63	25.20	7.89	25.20	8.14	25.10	8.27	25.10	8.40	25.10	8.55
	-7	-7.6	26.20	7.81	26.20	8.04	26.10	8.29	26.10	8.42	26.10	8.54	26.00	8.57
	-5	-5.6	27.60	8.03	27.50	8.26	27.40	8.49	27.40	8.61	27.40	8.73	27.30	8.67
	-3	-3.7	28.90	8.23	28.90	8.45	28.80	8.68	28.80	8.79	28.70	8.90	28.70	8.75
	0	-0.7	31.20	8.54	31.20	8.75	31.10	8.95	31.10	9.05	31.10	9.16	30.20	8.98
	3	2.2	33.70	8.83	33.60	9.01	33.60	9.20	33.50	9.29	32.40	8.91	30.20	8.17
	5	4.1	35.40	8.99	35.40	9.18	34.70	9.09	33.50	8.73	32.40	8.38	30.20	7.69
	7	6	37.20	9.16	36.90	9.22	34.70	8.54	33.50	8.20	32.40	7.88	30.20	7.23
	9	7.9	39.10	9.31	36.90	8.67	34.70	8.03	33.50	7.72	32.40	7.41	30.20	6.82
	11	9.8	39.10	8.76	36.90	8.15	34.70	7.56	33.50	7.27	32.40	6.99	30.20	6.43
	13	11.8	39.10	8.21	36.90	7.65	34.70	7.11	33.50	6.84	32.40	6.57	30.20	6.06
	15	13.7	39.10	7.29	36.90	7.21	34.70	6.71	33.50	6.45	32.40	6.22	30.20	5.73

	-19.8	-20	20.10	6.92	20.00	7.21	20.00	7.50	19.90	7.65	19.90	7.79	19.80	8.08
	-18.8	-19	20.40	7.01	20.40	7.29	20.30	7.58	20.30	7.73	20.20	7.88	20.20	8.16
	-16.7	-17	21.20	7.21	21.10	7.48	21.10	7.76	21.00	7.90	21.00	8.03	21.00	8.31
	-13.7	-15	22.10	7.41	22.00	7.68	21.90	7.95	21.90	8.08	21.90	8.21	21.80	8.48
	-11.8	-13	23.00	7.63	23.00	7.88	22.90	8.13	22.90	8.26	22.90	8.39	22.80	8.65
	-9.8	-11	24.10	7.84	24.00	8.08	24.00	8.32	24.00	8.45	23.90	8.57	23.90	8.81
	-9.5	-10	24.70	7.95	24.60	8.18	24.60	8.42	24.50	8.54	24.50	8.66	24.40	8.89
	-8.5	-9.1	25.20	8.03	25.10	8.27	25.10	8.50	25.10	8.62	25.00	8.74	25.00	8.96
	-7	-7.6	26.10	8.19	26.10	8.42	26.00	8.64	26.00	8.76	26.00	8.86	25.90	9.09
100%	-5	-5.6	27.50	8.40	27.40	8.61	27.40	8.83	27.30	8.92	27.30	9.03	27.20	9.25
	-3	-3.7	28.80	8.59	28.80	8.37	28.70	8.99	28.70	9.09	28.70	9.19	27.50	8.81
	0	-0.7	31.10	8.86	31.10	8.64	31.00	9.24	30.50	9.09	29.50	8.72	27.50	8.00
	3	2.2	33.60	9.12	33.50	9.08	31.50	8.60	30.50	8.26	29.50	7.94	27.50	7.28
	5	4.1	35.30	9.29	33.50	8.73	31.50	8.08	30.50	7.78	29.50	7.47	27.50	6.87
	7	6	35.50	8.82	33.50	8.20	31.50	7.61	30.50	7.32	29.50	7.04	27.50	6.47
	9	7.9	35.50	8.28	33.50	7.72	31.50	7.17	30.50	6.81	29.50	6.63	27.50	6.11
	11	9.8	35.50	7.80	33.50	7.27	31.50	6.76	30.50	6.50	29.50	6.26	27.50	5.77
	13	11.8	35.50	7.32	33.50	6.84	31.50	6.37	30.50	6.13	29.50	5.90	27.50	5.45
	15	13.7	35.50	6.91	33.50	6.45	31.50	6.01	30.50	5.79	29.50	5.57	27.50	5.16
	-19.8	-20	19.96	7.43	19.86	7.69	19.86	7.96	19.77	8.08	19.77	8.22	19.77	8.48
	-18.8	-19	20.26	7.51	20.26	7.78	20.17	8.03	20.17	8.16	20.17	8.29	20.06	8.55
	-16.7	-17	21.06	7.70	20.96	7.95	20.96	8.19	20.96	8.32	20.86	8.44	20.86	8.69
	-13.7	-15	21.96	7.89	21.86	8.12	21.86	8.36	21.76	8.48	21.76	8.60	21.76	8.84
	-11.8	-13	22.86	8.07	22.86	8.30	22.76	8.53	22.76	8.65	22.76	8.76	22.66	8.98
	-9.8	-11	23.96	8.26	23.96	8.48	23.86	8.70	23.86	8.81	23.86	8.92	23.76	9.14
	-9.5	-10	24.56	8.36	24.46	8.58	24.46	8.79	24.36	8.89	24.36	9.00	24.36	9.21
	-8.5	-9.1	25.06	8.45	25.06	8.66	24.96	8.86	24.96	8.96	24.96	9.07	24.66	9.16
	-7	-7.6	25.95	8.59	25.95	8.79	25.86	8.99	25.86	9.09	25.86	9.19	24.66	8.75
90%	-5	-5.6	27.35	8.78	27.25	8.96	27.25	9.15	27.15	9.25	26.45	8.96	24.66	8.22
	-3	-3.7	28.65	8.94	28.65	9.12	28.35	9.16	27.35	8.80	26.45	8.44	24.66	7.75
	0	-0.7	31.05	9.20	30.15	8.97	28.35	8.31	27.35	7.99	26.45	7.67	24.66	7.05
	3	2.2	31.94	8.77	30.15	8.16	28.35	7.57	27.35	7.28	26.45	7.00	24.66	6.44
	5	4.1	31.94	8.24	30.15	7.68	28.35	7.14	27.35	6.86	26.45	6.60	24.66	6.08
	7	6	31.94	7.75	30.15	7.23	28.35	6.72	27.35	6.47	26.45	6.23	24.66	5.74
	9	7.9	31.94	7.30	30.15	6.81	28.35	6.33	27.35	6.11	26.45	5.88	24.66	5.43
	11	9.8	31.94	6.88	30.15	6.42	28.35	5.99	27.35	5.77	26.45	5.55	24.66	5.14
	13	11.8	31.94	6.47	30.15	6.06	28.35	5.64	27.35	5.45	26.45	5.25	24.66	4.85
	15	13.7	31.94	6.12	30.15	5.72	28.35	5.35	27.35	5.16	26.45	4.97	24.66	4.61
	-19.8	-20	19.90	7.95	19.80	8.17	19.80	8.41	19.80	8.53	19.70	8.65	19.70	8.87
	-18.8	-19	20.20	8.01	20.20	8.25	20.10	8.48	20.10	8.60	20.10	8.71	20.00	8.94
	-16.7	-17	21.00	8.18	20.90	8.40	20.90	8.63	20.90	8.74	20.90	8.84	20.80	9.06
	-13.7	-15	21.90	8.35	21.80	8.56	21.80	8.78	21.80	8.87	21.70	8.98	21.70	9.20
	-11.8	-13	22.80	8.52	22.80	8.73	22.70	8.92	22.70	9.02	22.70	9.13	22.00	8.88
	-9.8	-11	23.90	8.69	23.90	8.88	23.80	9.08	23.80	9.17	23.60	9.15	22.00	8.39
	-9.5	-10	24.50	8.78	24.40	8.96	24.40	9.15	24.40	9.25	23.60	8.88	22.00	8.14
	-8.5	-9.1	25.00	8.85	23.24	9.04	24.90	9.22	24.40	9.01	23.60	8.65	22.00	7.93
	-7	-7.6	25.90	8.98	25.90	9.16	25.20	8.96	24.40	8.61	23.60	8.26	22.00	7.58
80%	-5	-5.6	27.30	9.14	26.80	9.09	25.20	8.42	24.40	8.09	23.60	7.77	22.00	7.14
	-3	-3.7	28.40	9.19	26.80	8.56	25.20	7.93	24.40	7.63	23.60	7.32	22.00	6.74
	0	-0.7	28.40	8.34	26.80	7.77	25.20	7.21	24.40	6.95	23.60	6.67	22.00	6.15
	3	2.2	28.40	7.60	26.80	7.09	25.20	6.59	24.40	6.34	23.60	6.11	22.00	5.63
	5	4.1	28.40	7.16	26.80	6.68	25.20	6.22	24.40	5.99	23.60	5.77	22.00	5.33
	7	6	28.40	6.74	26.80	6.31	25.20	5.87	24.40	5.66	23.60	5.46	22.00	5.04
	9	7.9	28.40	6.36	26.80	5.95	25.20	5.54	24.40	5.35	23.60	5.16	22.00	4.77
	11	9.8	28.40	6.01	26.80	5.62	25.20	5.25	24.40	5.06	23.60	4.88	22.00	4.53
	13	11.8	28.40	5.66	26.80	5.31	25.20	4.96	24.40	4.78	23.60	4.62	22.00	4.28
	15	13.7	28.40	5.36	26.80	5.03	25.20	4.70	24.40	4.54	23.60	4.38	22.00	4.07
	-19.8	-20	19.75	8.46	19.66	8.66	19.66	8.86	19.66	8.96	19.66	9.07	19.16	8.97
	-18.8	-19	20.05	8.53	20.05	8.73	19.96	8.92	19.96	9.02	19.96	9.13	19.16	8.79
70%	-16.7	-17	20.85	8.67	20.85	8.86	20.75	9.05	20.75	9.15	20.55	8.69	19.16	8.38
	-13.7	-15	21.75	8.82	21.65	9.00	21.65	9.19	21.25	9.05	20.55	8.23	19.16	7.97
	-11.8	-13	22.65	8.96	22.65	9.14	22.05	8.92	21.25	8.58	20.55	8.15	19.16	7.55

	-9.8	-11	23.75	9.11	23.45	9.10	22.05	8.43	21.25	8.10	20.55	8.15	19.16	7.15
	-9.5	-10	24.35	9.19	23.45	8.84	22.05	8.18	21.25	7.87	20.55	7.78	19.16	6.95
	-8.5	-9.1	24.84	9.24	23.45	8.60	22.05	7.97	21.25	7.66	20.55	7.56	19.16	6.77
	-7	-7.6	24.84	8.82	23.45	8.21	22.05	7.62	21.25	7.33	20.55	7.36	19.16	6.48
	-5	-5.6	24.84	8.29	23.45	7.73	22.05	7.17	21.25	6.90	20.55	7.05	19.16	6.12
	-3	-3.7	24.84	7.81	23.45	7.28	22.05	6.77	21.25	6.51	20.55	6.27	19.16	5.78
	0	-0.7	24.84	7.11	23.45	6.64	22.05	6.18	21.25	5.95	20.55	5.73	19.16	5.30
	3	2.2	24.84	6.49	23.45	6.08	22.05	5.66	21.25	5.46	20.55	5.26	19.16	4.86
	5	4.1	24.84	6.13	23.45	5.73	22.05	5.36	21.25	5.16	20.55	4.97	19.16	4.61
	7	6	24.84	5.79	23.45	5.43	22.05	5.06	21.25	4.88	20.55	4.71	19.16	4.37
	9	7.9	24.84	5.47	23.45	5.13	22.05	4.79	21.25	4.63	20.55	4.47	19.16	4.14
	11	9.8	24.84	5.18	23.45	4.85	22.05	4.55	21.25	4.39	20.55	4.24	19.16	3.93
	13	11.8	24.84	4.89	23.45	4.60	22.05	4.30	21.25	4.16	20.55	4.01	19.16	3.74
	15	13.7	24.84	4.63	23.45	4.36	22.05	4.08	21.25	3.95	20.55	3.81	19.16	3.56
60%	-19.8	-20	19.70	8.97	19.60	9.14	18.90	8.80	18.30	8.45	17.70	8.11	16.50	7.44
	-18.8	-19	20.00	9.03	20.00	9.20	18.90	8.61	18.30	8.27	17.70	7.94	16.50	7.28
	-16.7	-17	20.80	9.15	20.10	8.86	18.90	8.21	18.30	7.90	17.70	7.58	16.50	6.97
	-13.7	-15	21.30	9.05	20.10	8.42	18.90	7.81	18.30	7.51	17.70	7.21	16.50	6.63
	-11.8	-13	21.30	8.57	20.10	7.97	18.90	7.40	18.30	7.13	17.70	6.85	16.50	6.33
	-9.8	-11	21.30	8.09	20.10	7.54	18.90	7.01	18.30	6.74	17.70	6.48	16.50	5.98
	-9.5	-10	21.30	7.87	20.10	7.33	18.90	6.81	18.30	6.56	17.70	6.30	16.50	5.81
	-8.5	-9.1	21.30	7.66	20.10	7.15	18.90	6.64	18.30	6.39	17.70	6.15	16.50	5.67
	-7	-7.6	21.30	7.32	20.10	6.84	18.90	6.35	18.30	6.13	17.70	5.89	16.50	5.45
	-5	-5.6	21.30	6.90	20.10	6.44	18.90	6.00	18.30	5.78	17.70	5.56	16.50	5.15
	-3	-3.7	21.30	6.51	20.10	6.09	18.90	5.67	18.30	5.47	17.70	5.27	16.50	4.87
	0	-0.7	21.30	5.95	20.10	5.57	18.90	5.20	18.30	5.02	17.70	4.83	16.50	4.48
	3	2.2	21.30	5.46	20.10	5.12	18.90	4.78	18.30	4.61	17.70	4.46	16.50	4.13
	5	4.1	21.30	5.16	20.10	4.84	18.90	4.53	18.30	4.38	17.70	4.22	16.50	3.92
	7	6	21.30	4.88	20.10	4.59	18.90	4.29	18.30	4.15	17.70	4.01	16.50	3.73
	9	7.9	21.30	4.62	20.10	4.35	18.90	4.07	18.30	3.94	17.70	3.80	16.50	3.55
	11	9.8	21.30	4.39	20.10	4.13	18.90	3.87	18.30	3.75	17.70	3.62	16.50	3.38
	13	11.8	21.30	4.15	20.10	3.91	18.90	3.68	18.30	3.56	17.70	3.44	16.50	3.21
	15	13.7	21.30	3.95	20.10	3.72	18.90	3.50	18.30	3.39	17.70	3.28	16.50	3.06
50%	-19.8	-20	17.74	8.16	16.75	7.60	15.75	7.06	15.15	6.80	14.65	6.53	13.66	6.02
	-18.8	-19	17.74	7.98	16.75	7.44	15.75	6.92	15.15	6.65	14.65	6.39	13.66	5.90
	-16.7	-17	17.74	7.62	16.75	7.11	15.75	6.61	15.15	6.36	14.65	6.13	13.66	5.65
	-13.7	-15	17.74	7.25	16.75	6.77	15.75	6.29	15.15	6.07	14.65	5.84	13.66	5.40
	-11.8	-13	17.74	6.89	16.75	6.43	15.75	5.99	15.15	5.77	14.65	5.55	13.66	5.14
	-9.8	-11	17.74	6.52	16.75	6.10	15.75	5.68	15.15	5.47	14.65	5.28	13.66	4.88
	-9.5	-10	17.74	6.34	16.75	5.93	15.75	5.53	15.15	5.34	14.65	5.14	13.66	4.75
	-8.5	-9.1	17.74	6.19	16.75	5.79	15.75	5.40	15.15	5.21	14.65	5.02	13.66	4.64
	-7	-7.6	17.74	5.93	16.75	5.55	15.75	5.18	15.15	5.00	14.65	4.82	13.66	4.47
	-5	-5.6	17.74	5.59	16.75	5.25	15.75	4.90	15.15	4.73	14.65	4.57	13.66	4.23
	-3	-3.7	17.74	5.30	16.75	4.97	15.75	4.64	15.15	4.49	14.65	4.33	13.66	4.02
	0	-0.7	17.74	4.86	16.75	4.57	15.75	4.28	15.15	4.13	14.65	3.99	13.66	3.72
	3	2.2	17.74	4.48	16.75	4.21	15.75	3.94	15.15	3.81	14.65	3.69	13.66	3.44
	5	4.1	17.74	4.25	16.75	3.99	15.75	3.75	15.15	3.63	14.65	3.51	13.66	3.27
	7	6	17.74	4.03	16.75	3.79	15.75	3.57	15.15	3.45	14.65	3.34	13.66	3.12
	9	7.9	17.74	3.82	16.75	3.61	15.75	3.39	15.15	3.29	14.65	3.18	13.66	2.97
	11	9.8	17.74	3.64	16.75	3.43	15.75	3.23	15.15	3.13	14.65	3.03	13.66	2.84
	13	11.8	17.74	3.46	16.75	3.26	15.75	3.07	15.15	2.98	14.65	2.89	13.66	2.71
	15	13.7	17.74	3.29	16.75	3.11	15.75	2.94	15.15	2.85	14.65	2.76	13.66	2.59

Note:

1, is shown as reference

2, The above table shows the average value of conditions may operate

3, It is recommended to connect less than 130%

12HP cooling mode

Combination (%) (Capacity index)	Outdoor temperature(°C DB)	Indoor temperature(°C WB)													
		DB:20.8,WB:14		DB:23.3,WB:16		DB:25.8,WB:18		DB:27,WB:19		DB:28.2,WB:20		DB:30.7,WB:22		DB:32,WB:24	
		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	29.43	4.17	35.05	5.10	40.68	6.06	42.23	6.20	42.71	6.07	43.79	5.82	44.86	5.55
	12	29.43	4.24	35.05	5.20	40.68	6.18	41.63	6.16	42.23	6.04	43.19	5.77	44.27	5.68
	14	29.43	4.33	35.05	5.29	40.56	6.26	41.16	6.18	41.63	6.00	42.71	5.95	43.79	6.01
	16	29.43	4.40	35.05	5.40	40.08	6.23	40.56	6.14	41.04	6.21	42.11	6.27	43.19	6.33
	18	29.43	4.49	35.05	5.51	39.48	6.46	39.96	6.50	40.56	6.54	41.63	6.60	42.71	6.66
	20	29.43	4.59	35.05	5.87	38.88	6.78	39.48	6.82	39.96	6.86	41.04	6.92	42.11	6.99
	21	29.43	4.71	35.05	6.07	38.64	6.94	39.24	6.98	39.72	7.01	40.80	7.09	41.87	7.15
	23	29.43	5.05	35.05	6.51	38.16	7.26	38.64	7.29	39.12	7.33	40.20	7.40	41.27	7.48
	25	29.43	5.39	35.05	6.98	37.57	7.57	38.04	7.61	38.64	7.66	39.72	7.73	40.80	7.81
	27	29.43	5.76	35.05	7.47	37.09	7.89	37.57	7.94	38.04	7.98	39.12	8.06	40.20	8.15
	29	29.43	6.15	35.05	7.98	36.49	8.21	36.97	8.26	37.57	8.31	38.64	8.39	39.72	8.48
	31	29.43	6.56	34.94	8.44	35.89	8.54	36.49	8.59	36.97	8.62	38.04	8.72	39.12	8.82
	33	29.43	6.99	34.33	8.76	35.41	8.86	35.89	8.90	36.49	8.95	37.57	9.05	38.52	9.15
	35	29.43	7.45	33.74	9.07	34.81	9.18	35.41	9.23	35.89	9.28	36.97	9.39	38.04	9.49
	37	29.43	7.93	33.26	9.40	34.34	9.51	34.81	9.56	35.41	9.62	36.37	9.73	37.45	9.84
	39	29.43	8.44	32.66	9.50	33.74	9.83	34.34	9.89	34.81	9.95	35.89	10.06	36.97	10.18
	42	29.43	8.88	32.32	9.59	33.38	9.92	33.98	9.98	34.46	10.05	35.54	10.08	35.55	10.28
	44	29.43	9.34	31.99	9.69	33.03	9.98	33.63	10.08	33.75	10.07	34.24	10.12	34.70	10.32
	46	29.43	9.79	31.85	9.78	32.68	10.11	33.27	10.11	33.47	10.14	33.64	10.16	34.17	10.66
120%	10	27.16	3.81	32.30	4.65	37.57	5.53	40.20	5.98	42.11	6.23	43.07	5.99	44.03	5.76
	12	27.16	3.88	32.30	4.73	37.57	5.63	40.20	6.09	41.52	6.20	42.47	5.96	43.43	5.72
	14	27.16	3.95	32.30	4.83	37.57	5.74	40.20	6.21	40.92	6.16	41.99	5.93	42.95	5.96
	16	27.16	4.02	32.30	4.93	37.57	5.85	39.96	6.26	40.44	6.17	41.40	6.23	42.35	6.28
	18	27.16	4.10	32.30	5.03	37.57	6.05	39.36	6.46	39.84	6.49	40.80	6.55	41.87	6.61
	20	27.16	4.18	32.30	5.22	37.57	6.51	38.88	6.78	39.36	6.81	40.32	6.87	41.28	6.93
	21	27.16	4.22	32.30	5.40	37.57	6.75	38.52	6.94	39.00	6.96	40.08	7.03	41.04	7.10
	23	27.16	4.51	32.30	5.79	37.57	7.22	38.05	7.25	38.52	7.28	39.48	7.36	40.44	7.42
	25	27.16	4.82	32.30	6.20	36.97	7.54	37.45	7.56	37.93	7.60	39.00	7.67	39.96	7.74
	27	27.16	5.15	32.30	6.62	36.49	7.84	36.97	7.89	37.45	7.93	38.40	8.00	39.36	8.07
	29	27.16	5.49	32.30	7.07	35.89	8.16	36.37	8.21	36.85	8.24	37.81	8.33	38.88	8.40
	31	27.16	5.85	32.30	7.55	35.29	8.49	35.89	8.53	36.37	8.57	37.33	8.66	38.28	8.75
	33	27.16	6.23	32.30	8.05	34.81	8.81	35.29	8.85	35.77	8.89	36.73	8.99	37.69	9.07
	35	27.16	6.64	32.30	8.59	34.22	9.12	34.70	9.17	35.29	9.22	36.25	9.32	37.21	9.42
	37	27.16	7.06	32.30	9.15	33.74	9.45	34.22	9.50	34.70	9.55	35.65	9.65	36.61	9.76
	39	27.16	7.51	32.18	9.66	33.14	9.77	33.62	9.83	34.10	9.88	35.17	9.99	36.13	10.09
	42	27.16	7.79	31.84	9.75	32.79	9.86	33.27	9.92	33.75	9.97	34.83	10.03	34.74	10.19
	44	27.16	7.88	31.67	9.84	32.45	9.94	32.93	9.95	33.41	10.00	33.79	10.06	34.35	10.55
	46	27.16	7.97	31.49	9.94	32.17	10.05	32.58	10.11	33.16	10.13	33.44	10.09	34.05	10.64
110%	10	24.89	3.45	29.67	4.21	34.46	5.00	36.85	5.40	39.24	5.82	42.24	6.17	43.19	5.96
	12	24.89	3.53	29.67	4.29	34.46	5.10	36.85	5.51	39.24	5.93	41.76	6.15	42.59	5.93
	14	24.89	3.59	29.67	4.37	34.46	5.20	36.85	5.61	39.24	6.04	41.16	6.11	42.12	5.92
	16	24.89	3.65	29.67	4.45	34.46	5.29	36.85	5.72	39.24	6.16	40.68	6.18	41.52	6.25
	18	24.89	3.72	29.67	4.54	34.46	5.40	36.85	5.88	39.24	6.45	40.08	6.50	41.04	6.56
	20	24.89	3.79	29.67	4.64	34.46	5.72	36.85	6.32	38.65	6.77	39.60	6.82	40.44	6.88
	21	24.89	3.83	29.67	4.77	34.46	5.93	36.85	6.55	38.41	6.93	39.25	6.98	40.20	7.04
	23	24.89	4.01	29.67	5.11	34.46	6.36	36.85	7.03	37.81	7.23	38.77	7.30	39.60	7.37
	25	24.89	4.28	29.67	5.46	34.46	6.79	36.85	7.53	37.33	7.55	38.17	7.62	39.12	7.68
	27	24.89	4.56	29.67	5.84	34.46	7.27	36.25	7.84	36.73	7.87	37.69	7.94	38.53	8.01
	29	24.89	4.87	29.67	6.23	34.46	7.77	35.77	8.16	36.25	8.20	37.09	8.27	38.05	8.34
	31	24.89	5.18	29.67	6.65	34.46	8.29	35.18	8.48	35.65	8.51	36.61	8.59	37.45	8.67
	33	24.89	5.51	29.67	7.09	34.22	8.75	34.70	8.79	35.18	8.83	36.01	8.92	36.97	9.00
	35	24.89	5.87	29.67	7.55	33.62	9.06	34.10	9.11	34.58	9.16	35.42	9.25	36.37	9.33
	37	24.89	6.25	29.67	8.04	33.14	9.39	33.62	9.43	33.98	9.48	34.94	9.58	35.77	9.66
	39	24.89	6.64	29.67	8.56	32.54	9.71	33.02	9.76	33.50	9.81	34.34	9.90	35.30	10.00
	42	24.89	6.73	29.67	8.65	32.20	9.80	32.68	9.85	33.16	9.90	33.76	10.00	33.88	10.09
	44	24.89	6.82	29.67	8.75	31.86	9.89	32.34	9.94	32.82	9.99	33.44	10.02	33.54	10.46
	46	24.89	6.99	29.67	8.84	31.56	9.98	32.00	10.09	32.57	10.08	33.08	10.54	33.25	10.57
100%	10	22.61	3.12	26.92	3.78	31.35	4.48	33.50	4.84	35.65	5.21	40.08	5.95	42.35	6.16
	12	22.61	3.17	26.92	3.85	31.35	4.56	33.50	4.93	35.65	5.31	40.08	6.06	41.75	6.12

	14	22.61	3.23	26.92	3.93	31.35	4.65	33.50	5.03	35.65	5.40	40.08	6.18	41.28	6.09
	16	22.61	3.29	26.92	4.00	31.35	4.74	33.50	5.12	35.65	5.51	39.84	6.26	40.68	6.20
	18	22.61	3.35	26.92	4.07	31.35	4.83	33.50	5.22	35.65	5.62	39.36	6.46	40.20	6.51
	20	22.61	3.42	26.92	4.16	31.35	4.98	33.50	5.49	35.65	6.03	38.76	6.77	39.60	6.83
	21	22.61	3.45	26.92	4.20	31.35	5.16	33.50	5.68	35.65	6.23	38.53	6.93	39.36	6.99
	23	22.61	3.54	26.92	4.48	31.35	5.53	33.50	6.09	35.65	6.68	38.05	7.24	38.76	7.31
	25	22.61	3.77	26.92	4.78	31.35	5.92	33.50	6.53	35.65	7.16	37.45	7.56	38.28	7.62
	27	22.61	4.02	26.92	5.10	31.35	6.32	33.50	6.98	35.65	7.66	36.85	7.88	37.69	7.95
	29	22.61	4.28	26.92	5.44	31.35	6.74	33.50	7.45	35.53	8.14	36.37	8.21	37.21	8.27
	31	22.61	4.56	26.92	5.81	31.35	7.20	33.50	7.95	35.05	8.45	35.77	8.53	36.61	8.60
	33	22.61	4.84	26.92	6.18	31.35	7.67	33.50	8.49	34.46	8.77	35.30	8.84	36.13	8.93
	35	22.61	5.15	26.92	6.57	31.35	8.18	33.50	9.05	33.86	9.09	34.70	9.17	35.53	9.25
	37	22.61	5.48	26.92	7.00	31.35	8.72	32.90	9.37	33.38	9.42	34.22	9.50	34.94	9.57
	39	22.61	5.82	26.92	7.44	31.35	9.28	32.42	9.68	32.78	9.73	33.62	9.82	34.46	9.92
	42	22.61	6.18	26.92	7.80	31.35	9.73	31.75	9.77	32.44	9.93	32.84	10.05	33.79	10.19
	44	22.61	6.54	26.92	8.16	31.35	9.86	31.08	9.96	32.14	10.02	33.62	10.18	32.93	10.28
	46	22.61	6.90	26.92	8.53	31.35	10.07	30.41	10.05	32.11	10.29	32.28	10.36	32.45	10.46
90%	10	20.34	2.79	24.29	3.37	28.24	3.98	30.15	4.29	32.06	4.61	36.01	5.27	39.96	5.94
	12	20.34	2.84	24.29	3.43	28.24	4.05	30.15	4.36	32.06	4.70	36.01	5.37	39.96	6.05
	14	20.34	2.89	24.29	3.49	28.24	4.12	30.15	4.45	32.06	4.78	36.01	5.46	39.96	6.16
	16	20.34	2.94	24.29	3.55	28.24	4.21	30.15	4.54	32.06	4.88	36.01	5.57	39.84	6.27
	18	20.34	2.99	24.29	3.62	28.24	4.28	30.15	4.62	32.06	4.98	36.01	5.68	39.36	6.46
	20	20.34	3.05	24.29	3.71	28.24	4.37	30.15	4.72	32.06	5.16	36.01	6.11	38.76	6.77
	21	20.34	3.07	24.29	3.73	28.24	4.44	30.15	4.88	32.06	5.34	36.01	6.33	38.53	6.93
	23	20.34	3.13	24.29	3.88	28.24	4.76	30.15	5.23	32.06	5.73	36.01	6.79	37.93	7.24
	25	20.34	3.30	24.29	4.15	28.24	5.09	30.15	5.60	32.06	6.12	36.01	7.27	37.45	7.56
	27	20.34	3.51	24.29	4.42	28.24	5.43	30.15	5.98	32.06	6.55	36.01	7.78	36.85	7.88
	29	20.34	3.74	24.29	4.71	28.24	5.79	30.15	6.38	32.06	7.00	35.65	8.14	36.37	8.20
	31	20.34	3.98	24.29	5.01	28.24	6.17	30.15	6.81	32.06	7.46	35.06	8.45	35.77	8.52
	33	20.34	4.22	24.29	5.33	28.24	6.59	30.15	7.26	32.06	7.96	34.58	8.78	35.29	8.84
	35	20.34	4.49	24.29	5.67	28.24	7.01	30.15	7.73	32.06	8.49	33.98	9.10	34.70	9.17
	37	20.34	4.76	24.29	6.03	28.24	7.46	30.15	8.23	32.06	9.05	33.38	9.42	34.22	9.49
	39	20.34	5.05	24.29	6.42	28.24	7.94	30.15	8.77	32.06	9.64	32.90	9.75	33.62	9.82
	42	20.34	5.28	24.29	6.80	28.24	8.33	30.15	9.08	32.06	9.71	32.60	10.08	33.32	10.13
	44	20.34	5.67	24.29	7.19	28.24	8.71	30.15	9.39	32.06	10.09	32.42	10.17	32.89	10.28
	46	20.34	5.98	24.29	7.50	28.24	9.02	30.15	9.70	32.06	10.26	32.23	10.29	32.31	10.40
80%	10	18.07	2.48	21.54	2.96	25.00	3.49	26.80	3.76	28.60	4.03	32.06	4.60	35.53	5.18
	12	18.07	2.51	21.54	3.01	25.00	3.55	26.80	3.83	28.60	4.11	32.06	4.68	35.53	5.28
	14	18.07	2.56	21.54	3.07	25.00	3.61	26.80	3.89	28.60	4.18	32.06	4.77	35.53	5.38
	16	18.07	2.60	21.54	3.12	25.00	3.68	26.80	3.96	28.60	4.26	32.06	4.87	35.53	5.48
	18	18.07	2.65	21.54	3.18	25.00	3.76	26.80	4.05	28.60	4.34	32.06	4.96	35.53	5.59
	20	18.07	2.70	21.54	3.24	25.00	3.83	26.80	4.12	28.60	4.43	32.06	5.15	35.53	5.98
	21	18.07	2.72	21.54	3.27	25.00	3.87	26.80	4.17	28.60	4.53	32.06	5.33	35.53	6.20
	23	18.07	2.77	21.54	3.34	25.00	4.05	26.80	4.44	28.60	4.84	32.06	5.71	35.53	6.65
	25	18.07	2.85	21.54	3.55	25.00	4.33	26.80	4.74	28.60	5.17	32.06	6.11	35.53	7.11
	27	18.07	3.04	21.54	3.78	25.00	4.61	26.80	5.06	28.60	5.53	32.06	6.53	35.53	7.61
	29	18.07	3.23	21.54	4.03	25.00	4.92	26.80	5.39	28.60	5.90	32.06	6.96	35.53	8.14
	31	18.07	3.43	21.54	4.28	25.00	5.23	26.80	5.74	28.60	6.29	32.06	7.44	34.94	8.45
	33	18.07	3.65	21.54	4.55	25.00	5.57	26.80	6.12	28.60	6.70	32.06	7.93	34.46	8.77
	35	18.07	3.87	21.54	4.84	25.00	5.93	26.80	6.51	28.60	7.14	32.06	8.45	33.86	9.09
	37	18.07	4.10	21.54	5.13	25.00	6.31	26.80	6.94	28.60	7.60	32.06	9.01	33.38	9.40
	39	18.07	4.34	21.54	5.48	25.00	6.71	26.80	7.38	28.60	8.09	32.06	9.60	32.78	9.73
	42	18.07	4.47	21.54	5.54	25.00	6.84	26.80	7.64	28.60	8.28	32.06	9.92	32.51	9.96
	44	18.07	4.67	21.54	5.61	25.00	6.97	26.80	7.77	28.60	8.41	32.06	9.99	32.25	10.06
	46	18.07	4.73	21.54	5.67	25.00	7.11	26.80	7.97	28.60	8.57	32.06	10.14	31.98	10.29
70%	10	15.79	2.18	18.90	2.59	21.90	3.01	23.45	3.24	25.00	3.48	28.00	3.95	31.11	4.44
	12	15.79	2.21	18.90	2.62	21.90	3.07	23.45	3.31	25.00	3.54	28.00	4.02	31.11	4.53
	14	15.79	2.24	18.90	2.67	21.90	3.12	23.45	3.35	25.00	3.60	28.00	4.10	31.11	4.61
	16	15.79	2.28	18.90	2.72	21.90	3.18	23.45	3.43	25.00	3.67	28.00	4.17	31.11	4.70
	18	15.79	2.32	18.90	2.77	21.90	3.24	23.45	3.49	25.00	3.73	28.00	4.26	31.11	4.79
	20	15.79	2.35	18.90	2.82	21.90	3.31	23.45	3.55	25.00	3.81	28.00	4.34	31.11	4.93
	21	15.79	2.38	18.90	2.84	21.90	3.33	23.45	3.59	25.00	3.84	28.00	4.40	31.11	5.10
	23	15.79	2.41	18.90	2.89	21.90	3.40	23.45	3.71	25.00	4.04	28.00	4.72	31.11	5.46
	25	15.79	2.46	18.90	3.01	21.90	3.62	23.45	3.96	25.00	4.31	28.00	5.05	31.11	5.84

	27	15.79	2.61	18.90	3.21	21.90	3.87	23.45	4.22	25.00	4.60	28.00	5.39	31.11	6.25
	29	15.79	2.77	18.90	3.40	21.90	4.11	23.45	4.50	25.00	4.89	28.00	5.74	31.11	6.67
	31	15.79	2.93	18.90	3.61	21.90	4.38	23.45	4.78	25.00	5.21	28.00	6.12	31.11	7.11
	33	15.79	3.11	18.90	3.84	21.90	4.66	23.45	5.09	25.00	5.55	28.00	6.53	31.11	7.59
	35	15.79	3.29	18.90	4.07	21.90	4.94	23.45	5.42	25.00	5.90	28.00	6.95	31.11	8.09
	37	15.79	3.48	18.90	4.32	21.90	5.26	23.45	5.74	25.00	6.28	28.00	7.40	31.11	8.61
	39	15.79	3.68	18.90	4.57	21.90	5.57	23.45	6.11	25.00	6.67	28.00	7.87	31.11	9.17
	42	15.79	3.90	18.90	4.79	21.90	5.79	23.45	6.38	25.00	6.94	28.00	8.30	31.11	9.71
	44	15.79	4.16	18.90	5.06	21.90	5.97	23.45	6.65	25.00	7.21	28.00	8.68	31.11	10.04
	46	15.79	4.34	18.90	5.28	21.90	6.22	23.45	6.87	25.00	7.43	28.00	8.95	31.11	10.26
60%	10	13.52	1.89	16.15	2.22	18.78	2.57	20.10	2.76	21.42	2.94	24.05	3.33	26.68	3.73
	12	13.52	1.93	16.15	2.26	18.78	2.62	20.10	2.81	21.42	2.99	24.05	3.39	26.68	3.79
	14	13.52	1.95	16.15	2.29	18.78	2.66	20.10	2.85	21.42	3.05	24.05	3.45	26.68	3.87
	16	13.52	1.98	16.15	2.33	18.78	2.71	20.10	2.90	21.42	3.10	24.05	3.51	26.68	3.94
	18	13.52	2.01	16.15	2.37	18.78	2.76	20.10	2.95	21.42	3.16	24.05	3.57	26.68	4.01
	20	13.52	2.04	16.15	2.41	18.78	2.81	20.10	3.01	21.42	3.22	24.05	3.65	26.68	4.10
	21	13.52	2.06	16.15	2.43	18.78	2.83	20.10	3.04	21.42	3.24	24.05	3.68	26.68	4.13
	23	13.52	2.09	16.15	2.48	18.78	2.88	20.10	3.10	21.42	3.30	24.05	3.83	26.68	4.40
	25	13.52	2.12	16.15	2.51	18.78	2.99	20.10	3.24	21.42	3.51	24.05	4.09	26.68	4.69
	27	13.52	2.21	16.15	2.67	18.78	3.18	20.10	3.46	21.42	3.74	24.05	4.35	26.68	5.01
	29	13.52	2.33	16.15	2.83	18.78	3.39	20.10	3.68	21.42	3.99	24.05	4.65	26.68	5.35
	31	13.52	2.48	16.15	3.00	18.78	3.60	20.10	3.91	21.42	4.24	24.05	4.94	26.68	5.69
	33	13.52	2.61	16.15	3.18	18.78	3.82	20.10	4.16	21.42	4.51	24.05	5.26	26.68	6.07
	35	13.52	2.77	16.15	3.38	18.78	4.05	20.10	4.41	21.42	4.79	24.05	5.60	26.68	6.46
	37	13.52	2.93	16.15	3.57	18.78	4.29	20.10	4.68	21.42	5.09	24.05	5.95	26.68	6.88
	39	13.52	3.09	16.15	3.78	18.78	4.55	20.10	4.96	21.42	5.40	24.05	6.32	26.68	7.32
	42	13.52	3.22	16.15	4.00	18.78	4.77	20.10	5.23	21.42	5.67	24.05	6.71	26.68	7.76
	44	13.52	3.35	16.15	4.22	18.78	4.99	20.10	5.40	21.42	5.93	24.05	7.08	26.68	8.20
	46	13.52	3.53	16.15	4.41	18.78	5.17	20.10	5.63	21.42	6.24	24.05	7.33	26.68	8.64
50%	10	11.31	1.63	13.52	1.89	15.67	2.16	16.75	2.31	17.83	2.44	19.98	2.74	22.25	3.06
	12	11.31	1.65	13.52	1.91	15.67	2.20	16.75	2.33	17.83	2.49	19.98	2.79	22.25	3.11
	14	11.31	1.67	13.52	1.94	15.67	2.22	16.75	2.38	17.83	2.52	19.98	2.84	22.25	3.17
	16	11.31	1.70	13.52	1.96	15.67	2.26	16.75	2.41	17.83	2.56	19.98	2.89	22.25	3.22
	18	11.31	1.72	13.52	2.00	15.67	2.29	16.75	2.45	17.83	2.61	19.98	2.94	22.25	3.28
	20	11.31	1.74	13.52	2.02	15.67	2.33	16.75	2.49	17.83	2.66	19.98	2.99	22.25	3.34
	21	11.31	1.76	13.52	2.05	15.67	2.35	16.75	2.51	17.83	2.68	19.98	3.02	22.25	3.38
	23	11.31	1.78	13.52	2.07	15.67	2.39	16.75	2.56	17.83	2.73	19.98	3.07	22.25	3.45
	25	11.31	1.80	13.52	2.11	15.67	2.44	16.75	2.61	17.83	2.82	19.98	3.23	22.25	3.68
	27	11.31	1.84	13.52	2.20	15.67	2.57	16.75	2.78	17.83	2.99	19.98	3.44	22.25	3.93
	29	11.31	1.94	13.52	2.32	15.67	2.73	16.75	2.95	17.83	3.18	19.98	3.66	22.25	4.18
	31	11.31	2.05	13.52	2.45	15.67	2.89	16.75	3.13	17.83	3.38	19.98	3.89	22.25	4.45
	33	11.31	2.17	13.52	2.60	15.67	3.07	16.75	3.32	17.83	3.59	19.98	4.13	22.25	4.73
	35	11.31	2.29	13.52	2.74	15.67	3.24	16.75	3.51	17.83	3.79	19.98	4.39	22.25	5.02
	37	11.31	2.41	13.52	2.90	15.67	3.44	16.75	3.72	17.83	4.02	19.98	4.66	22.25	5.34
	39	11.31	2.55	13.52	3.06	15.67	3.63	16.75	3.94	17.83	4.27	19.98	4.94	22.25	5.67
	42	11.31	2.69	13.52	3.24	15.67	3.81	16.75	4.18	17.83	4.51	19.98	5.29	22.25	6.02
	44	11.31	2.83	13.52	3.41	15.67	3.99	16.75	4.43	17.83	4.62	19.98	5.64	22.25	6.37
	46	11.31	2.96	13.52	3.59	15.67	4.16	16.75	4.64	17.83	4.76	19.98	5.99	22.25	6.72

Note:

1, is shown as reference

2, The above table shows the average value of conditions may operate

3, It is recommended to connect less than 130%

12HP heating mode

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	kW
130%	-19.8	-20	24.28	6.68	24.16	7.03	24.05	7.44	24.05	7.70	23.93	7.90	23.93	8.36
	-18.8	-19	24.64	6.76	24.52	7.14	24.52	7.57	24.40	7.79	24.40	8.02	24.28	8.47
	-16.7	-17	25.59	7.00	25.47	7.39	25.35	7.85	25.35	8.06	25.35	8.28	25.24	8.71
	-13.7	-15	26.66	7.30	26.55	7.68	26.43	8.14	26.43	8.34	26.31	8.56	26.31	8.98
	-11.8	-13	27.74	7.56	27.74	8.00	27.62	8.42	27.50	8.63	27.50	8.83	27.38	9.23
	-9.8	-11	29.05	7.92	28.93	8.34	28.81	8.72	28.81	8.91	28.81	9.11	28.69	9.49
	-9.5	-10	29.76	8.05	29.64	8.50	29.52	8.87	29.52	9.06	29.40	9.24	29.40	9.61
	-8.5	-9.1	30.35	8.21	30.24	8.63	30.24	9.00	30.12	9.18	30.12	9.36	30.00	9.73
	-7	-7.6	31.43	8.43	31.43	8.87	31.31	9.21	31.31	9.39	31.19	9.56	31.07	9.92
	-5	-5.6	33.09	8.83	32.97	9.17	32.85	9.50	32.85	9.67	32.74	9.83	32.74	10.16
	-3	-3.7	34.64	9.12	34.52	9.44	34.52	9.75	34.40	9.92	34.40	10.08	34.28	10.39
	0	-0.7	37.38	9.56	37.38	9.86	37.26	10.15	37.26	10.26	37.14	10.45	37.14	10.74
	3	2.2	40.35	9.96	40.24	10.23	40.12	10.51	40.12	10.64	40.12	10.78	40.00	11.05
	5	4.1	42.38	10.21	42.26	10.47	42.26	10.72	42.14	10.86	42.14	10.99	42.02	11.24
	7	6	44.52	10.45	44.40	10.69	44.40	10.94	44.28	11.06	44.28	11.18	42.50	10.74
	9	7.9	46.78	10.66	46.66	10.90	46.66	11.13	46.55	11.25	45.59	11.01	42.50	10.09
	11	9.8	49.16	10.88	49.05	11.10	48.81	11.24	47.14	10.80	45.59	10.35	42.50	9.50
	13	11.8	51.78	11.08	51.66	11.30	48.81	10.53	47.14	10.11	45.59	9.72	42.50	8.91
	15	13.7	54.28	11.28	51.90	10.70	48.81	9.92	47.14	9.54	45.59	9.15	42.50	8.41
120%	-19.8	-20	24.17	6.83	24.05	7.18	23.93	7.59	23.93	7.78	23.93	7.99	23.81	8.40
	-18.8	-19	24.53	6.91	24.41	7.30	24.41	7.70	24.29	7.90	24.29	8.10	24.17	8.50
	-16.7	-17	25.48	7.18	25.36	7.57	25.20	7.94	25.24	8.13	25.24	8.33	25.12	8.70
	-13.7	-15	26.55	7.46	26.43	7.83	26.31	8.19	26.31	8.38	26.31	8.57	26.19	8.93
	-11.8	-13	27.62	7.75	27.62	8.10	27.50	8.45	27.50	8.63	27.38	8.80	27.38	9.16
	-9.8	-11	28.93	8.04	28.81	8.37	28.81	8.71	28.69	8.88	28.69	9.04	28.57	9.39
	-9.5	-10	29.65	8.19	29.53	8.52	29.41	8.84	29.41	9.01	29.41	9.17	29.29	9.50
	-8.5	-9.1	30.24	8.32	30.12	8.63	30.12	8.95	30.00	9.11	30.00	9.28	29.88	9.60
	-7	-7.6	31.31	8.53	31.31	8.84	31.19	9.15	31.19	9.31	31.07	9.45	31.07	9.76
	-5	-5.6	32.98	8.80	32.86	9.10	32.74	9.40	32.74	9.54	32.74	9.69	32.62	9.98
	-3	-3.7	34.53	9.07	34.53	9.35	34.41	9.62	34.41	9.76	34.29	9.91	34.29	10.18
	0	-0.7	37.26	9.45	37.26	9.72	37.14	9.97	37.14	10.10	37.02	10.23	37.02	10.49
	3	2.2	40.24	9.81	40.12	10.05	40.12	10.28	40.00	10.41	40.00	10.52	39.17	10.47
	5	4.1	42.26	10.02	42.14	10.25	42.14	10.48	42.02	10.59	42.02	10.71	39.17	9.83
	7	6	44.41	10.23	44.41	10.44	44.29	10.66	43.57	10.51	42.14	10.08	39.17	9.25
	9	7.9	46.67	10.43	46.55	10.64	45.00	10.28	43.57	9.88	42.14	9.48	39.17	8.70
	11	9.8	49.05	10.61	47.86	10.43	45.00	9.67	43.57	9.29	42.14	8.92	39.17	8.20
	13	11.8	50.83	10.51	47.86	9.78	45.00	9.07	43.57	8.73	42.14	8.38	39.17	7.71
	15	13.7	50.83	9.90	47.86	9.22	45.00	8.56	43.57	8.22	42.14	7.91	39.17	7.28
110%	-19.8	-20	24.05	7.57	23.93	7.94	23.81	8.32	23.81	8.51	23.82	8.70	23.69	9.08
	-18.8	-19	24.41	7.68	24.29	8.06	24.29	8.43	24.29	8.62	24.17	8.80	24.17	9.18
	-16.7	-17	25.36	7.94	25.24	8.30	25.59	8.66	25.12	8.84	25.12	9.03	25.00	9.38
	-13.7	-15	26.43	8.21	26.31	8.56	26.19	8.78	26.19	9.07	26.19	9.25	26.07	9.59
	-11.8	-13	27.50	8.49	27.50	8.81	27.38	9.14	27.38	9.31	27.26	9.47	27.26	9.81
	-9.8	-11	28.81	8.76	28.69	9.07	28.69	9.39	28.57	9.55	28.57	9.70	28.57	10.02
	-9.5	-10	29.52	8.90	29.40	9.20	29.28	9.52	29.28	9.67	29.28	9.82	29.17	10.01
	-8.5	-9.1	30.12	9.01	30.00	9.32	30.00	9.62	29.88	9.77	29.88	9.92	29.88	10.10
	-7	-7.6	31.19	9.22	31.19	9.50	31.07	9.80	31.07	9.95	31.07	10.09	30.95	10.12
	-5	-5.6	32.86	9.48	32.74	9.76	32.62	10.03	32.62	10.17	32.62	10.31	32.50	10.24
	-3	-3.7	34.41	9.73	34.41	9.98	34.29	10.25	34.29	10.38	34.17	10.51	34.17	10.33
	0	-0.7	37.14	10.09	37.14	10.33	37.03	10.58	37.03	10.69	37.03	10.82	35.95	10.61
	3	2.2	40.12	10.43	40.00	10.65	40.00	10.87	39.88	10.98	38.57	10.53	35.95	9.66
	5	4.1	42.14	10.62	42.14	10.85	41.31	10.74	39.88	10.31	38.57	9.90	35.95	9.08
	7	6	44.28	10.82	43.93	10.89	41.31	10.09	39.88	9.69	38.57	9.31	35.95	8.55
	9	7.9	46.55	11.00	43.93	10.24	41.31	9.49	39.88	9.12	38.57	8.76	35.95	8.06
	11	9.8	46.55	10.34	43.93	9.63	41.31	8.93	39.88	8.59	38.57	8.25	35.95	7.60
	13	11.8	46.55	9.70	43.93	9.04	41.31	8.39	39.88	8.08	38.57	7.76	35.95	7.16
	15	13.7	46.55	8.62	43.93	8.52	41.31	7.93	39.88	7.62	38.57	7.34	35.95	6.77

	-19.8	-20	23.93	8.17	23.81	8.51	23.81	8.86	23.69	9.04	23.69	9.20	23.57	9.55
	-18.8	-19	24.29	8.28	24.29	8.62	24.17	8.95	24.17	9.13	24.05	9.31	24.05	9.64
	-16.7	-17	25.24	8.51	25.12	8.84	25.12	9.17	25.00	9.33	25.00	9.49	25.00	9.82
	-13.7	-15	26.31	8.76	26.19	9.07	26.07	9.39	26.07	9.55	26.07	9.70	25.95	10.02
	-11.8	-13	27.38	9.01	27.38	9.31	27.26	9.61	27.26	9.76	27.26	9.91	27.14	10.22
	-9.8	-11	28.69	9.26	28.57	9.55	28.57	9.83	28.57	9.98	28.45	10.12	28.45	10.40
	-9.5	-10	29.40	9.39	29.29	9.67	29.29	9.95	29.17	10.09	29.17	10.23	29.05	10.51
	-8.5	-9.1	30.00	9.49	29.88	9.77	29.88	10.04	29.88	10.18	29.76	10.32	29.76	10.59
	-7	-7.6	31.07	9.68	31.07	9.95	30.95	10.20	30.95	10.34	30.95	10.47	30.83	10.74
100%	-5	-5.6	32.74	9.92	32.62	10.17	32.62	10.43	32.50	10.54	32.50	10.67	32.38	10.93
	-3	-3.7	34.29	10.15	34.29	9.89	34.17	10.62	34.17	10.74	34.17	10.86	32.74	10.40
	0	-0.7	37.02	10.47	37.02	10.21	36.90	10.92	36.31	10.74	35.12	10.30	32.74	9.44
	3	2.2	40.00	10.78	39.88	10.72	37.50	10.16	36.31	9.76	35.12	9.38	32.74	8.60
	5	4.1	42.02	10.97	39.88	10.31	37.50	9.55	36.31	9.19	35.12	8.83	32.74	8.11
	7	6	42.26	10.41	39.88	9.69	37.50	8.99	36.31	8.65	35.12	8.31	32.74	7.65
	9	7.9	42.26	9.78	39.88	9.12	37.50	8.46	36.31	8.04	35.12	7.83	32.74	7.22
	11	9.8	42.26	9.21	39.88	8.59	37.50	7.99	36.31	7.68	35.12	7.39	32.74	6.82
	13	11.8	42.26	8.65	39.88	8.08	37.50	7.52	36.31	7.24	35.12	6.97	32.74	6.43
	15	13.7	42.26	8.16	39.88	7.62	37.50	7.10	36.31	6.84	35.12	6.59	32.74	6.09
	-19.8	-20	23.77	8.78	23.65	9.08	23.65	9.40	23.53	9.55	23.53	9.71	23.53	10.02
	-18.8	-19	24.12	8.87	24.12	9.19	24.01	9.49	24.01	9.64	24.01	9.80	23.88	10.10
	-16.7	-17	25.08	9.09	24.95	9.39	24.95	9.68	24.95	9.83	24.84	9.97	24.84	10.26
	-13.7	-15	26.14	9.32	26.02	9.60	26.02	9.88	25.91	10.02	25.91	10.16	25.91	10.44
	-11.8	-13	27.21	9.54	27.21	9.81	27.09	10.08	27.09	10.22	27.09	10.34	26.98	10.61
	-9.8	-11	28.52	9.76	28.52	10.02	28.40	10.27	28.40	10.40	28.40	10.54	28.28	10.80
	-9.5	-10	29.23	9.88	29.12	10.13	29.12	10.38	29.00	10.51	29.00	10.64	29.00	10.88
	-8.5	-9.1	29.83	9.98	29.83	10.23	29.71	10.47	29.71	10.59	29.71	10.72	29.35	10.82
	-7	-7.6	30.90	10.15	30.90	10.38	30.78	10.62	30.78	10.74	30.78	10.86	29.35	10.33
90%	-5	-5.6	32.56	10.37	32.44	10.59	32.44	10.81	32.32	10.93	31.49	10.59	29.35	9.71
	-3	-3.7	34.11	10.57	34.11	10.78	33.75	10.82	32.56	10.39	31.49	9.97	29.35	9.15
	0	-0.7	36.96	10.87	35.89	10.60	33.75	9.82	32.56	9.43	31.49	9.06	29.35	8.32
	3	2.2	38.03	10.36	35.89	9.64	33.75	8.94	32.56	8.60	31.49	8.27	29.35	7.61
	5	4.1	38.03	9.74	35.89	9.07	33.75	8.43	32.56	8.10	31.49	7.80	29.35	7.18
	7	6	38.03	9.15	35.89	8.55	33.75	7.94	32.56	7.65	31.49	7.36	29.35	6.78
	9	7.9	38.03	8.63	35.89	8.04	33.75	7.48	32.56	7.22	31.49	6.95	29.35	6.41
	11	9.8	38.03	8.13	35.89	7.59	33.75	7.08	32.56	6.82	31.49	6.56	29.35	6.07
	13	11.8	38.03	7.65	35.89	7.16	33.75	6.67	32.56	6.43	31.49	6.20	29.35	5.73
	15	13.7	38.03	7.23	35.89	6.76	33.75	6.32	32.56	6.09	31.49	5.87	29.35	5.44
	-19.8	-20	23.69	9.39	23.57	9.66	23.57	9.94	23.57	10.08	23.45	10.22	23.45	10.48
	-18.8	-19	24.05	9.47	24.05	9.75	23.93	10.02	23.93	10.16	23.93	10.29	23.81	10.57
	-16.7	-17	25.00	9.67	24.88	9.92	24.88	10.19	24.88	10.32	24.88	10.45	24.76	10.71
	-13.7	-15	26.07	9.87	25.95	10.11	25.95	10.37	25.95	10.48	25.83	10.61	25.83	10.87
	-11.8	-13	27.14	10.06	27.14	10.31	27.02	10.54	27.02	10.66	27.02	10.79	26.19	10.50
	-9.8	-11	28.45	10.26	28.45	10.50	28.33	10.73	28.33	10.83	28.10	10.81	26.19	9.91
	-9.5	-10	29.17	10.37	29.04	10.59	29.05	10.81	29.05	10.93	28.10	10.50	26.19	9.62
	-8.5	-9.1	29.76	10.46	27.66	10.68	29.64	10.89	29.05	10.65	28.10	10.22	26.19	9.36
	-7	-7.6	30.83	10.61	30.83	10.82	30.00	10.59	29.05	10.17	28.10	9.76	26.19	8.95
80%	-5	-5.6	32.50	10.80	31.91	10.74	30.00	9.95	29.05	9.56	28.10	9.18	26.19	8.43
	-3	-3.7	33.81	10.86	31.91	10.11	30.00	9.36	29.05	9.01	28.10	8.65	26.19	7.96
	0	-0.7	33.81	9.85	31.91	9.18	30.00	8.52	29.05	8.21	28.10	7.88	26.19	7.26
	3	2.2	33.81	8.98	31.91	8.37	30.00	7.79	29.05	7.50	28.10	7.22	26.19	6.65
	5	4.1	33.81	8.45	31.91	7.89	30.00	7.34	29.05	7.07	28.10	6.82	26.19	6.29
	7	6	33.81	7.96	31.91	7.45	30.00	6.93	29.05	6.69	28.10	6.44	26.19	5.95
	9	7.9	33.81	7.52	31.91	7.03	30.00	6.55	29.05	6.32	28.10	6.09	26.19	5.64
	11	9.8	33.81	7.10	31.91	6.64	30.00	6.20	29.05	5.98	28.10	5.77	26.19	5.35
	13	11.8	33.81	6.69	31.91	6.27	30.00	5.86	29.05	5.65	28.10	5.45	26.19	5.06
	15	13.7	33.81	6.33	31.91	5.94	30.00	5.56	29.05	5.36	28.10	5.17	26.19	4.81
	-19.8	-20	23.52	9.99	23.40	10.23	23.40	10.47	23.40	10.59	23.40	10.72	22.81	10.60
	-18.8	-19	23.87	10.07	23.87	10.31	23.76	10.54	23.76	10.66	23.76	10.79	22.81	10.38
70%	-16.7	-17	24.82	10.24	24.82	10.47	24.71	10.69	24.71	10.81	24.47	10.26	22.81	9.90
	-13.7	-15	25.89	10.41	25.77	10.64	25.77	10.86	25.30	10.69	24.47	9.73	22.81	9.41
	-11.8	-13	26.96	10.59	26.96	10.80	26.25	10.54	25.30	10.13	24.47	9.63	22.81	8.92

	-9.8	-11	28.27	10.76	27.91	10.75	26.25	9.96	25.30	9.57	24.47	9.63	22.81	8.44
	-9.5	-10	28.98	10.86	27.91	10.44	26.25	9.67	25.30	9.29	24.47	9.19	22.81	8.21
	-8.5	-9.1	29.58	10.92	27.91	10.16	26.25	9.41	25.30	9.05	24.47	8.93	22.81	8.00
	-7	-7.6	29.58	10.43	27.91	9.70	26.25	9.00	25.30	8.66	24.47	8.70	22.81	7.66
	-5	-5.6	29.58	9.80	27.91	9.13	26.25	8.48	25.30	8.15	24.47	8.32	22.81	7.23
	-3	-3.7	29.58	9.22	27.91	8.60	26.25	8.00	25.30	7.69	24.47	7.40	22.81	6.83
	0	-0.7	29.58	8.39	27.91	7.85	26.25	7.30	25.30	7.03	24.47	6.77	22.81	6.26
	3	2.2	29.58	7.67	27.91	7.18	26.25	6.69	25.30	6.44	24.47	6.21	22.81	5.74
	5	4.1	29.58	7.24	27.91	6.77	26.25	6.33	25.30	6.09	24.47	5.87	22.81	5.44
	7	6	29.58	6.84	27.91	6.41	26.25	5.98	25.30	5.77	24.47	5.57	22.81	5.16
	9	7.9	29.58	6.47	27.91	6.06	26.25	5.66	25.30	5.46	24.47	5.28	22.81	4.89
	11	9.8	29.58	6.12	27.91	5.73	26.25	5.37	25.30	5.18	24.47	5.01	22.81	4.65
	13	11.8	29.58	5.78	27.91	5.43	26.25	5.08	25.30	4.92	24.47	4.74	22.81	4.41
	15	13.7	29.58	5.48	27.91	5.15	26.25	4.82	25.30	4.67	24.47	4.51	22.81	4.20
60%	-19.8	-20	23.45	10.60	23.33	10.80	22.50	10.39	21.79	9.98	21.07	9.58	19.64	8.79
	-18.8	-19	23.81	10.67	23.81	10.87	22.50	10.17	21.79	9.77	21.07	9.37	19.64	8.60
	-16.7	-17	24.76	10.81	23.93	10.47	22.50	9.70	21.79	9.33	21.07	8.95	19.64	8.23
	-13.7	-15	25.36	10.69	23.93	9.95	22.50	9.22	21.79	8.87	21.07	8.52	19.64	7.83
	-11.8	-13	25.36	10.12	23.93	9.42	22.50	8.74	21.79	8.42	21.07	8.09	19.64	7.48
	-9.8	-11	25.36	9.56	23.93	8.91	22.50	8.28	21.79	7.96	21.07	7.66	19.64	7.06
	-9.5	-10	25.36	9.29	23.93	8.66	22.50	8.04	21.79	7.75	21.07	7.45	19.64	6.86
	-8.5	-9.1	25.36	9.05	23.93	8.44	22.50	7.85	21.79	7.55	21.07	7.26	19.64	6.70
	-7	-7.6	25.36	8.65	23.93	8.08	22.50	7.51	21.79	7.24	21.07	6.96	19.64	6.43
	-5	-5.6	25.36	8.15	23.93	7.61	22.50	7.09	21.79	6.83	21.07	6.57	19.64	6.08
	-3	-3.7	25.36	7.69	23.93	7.19	22.50	6.70	21.79	6.47	21.07	6.22	19.64	5.76
	0	-0.7	25.36	7.03	23.93	6.58	22.50	6.14	21.79	5.93	21.07	5.71	19.64	5.29
	3	2.2	25.36	6.44	23.93	6.05	22.50	5.65	21.79	5.45	21.07	5.27	19.64	4.88
	5	4.1	25.36	6.09	23.93	5.72	22.50	5.35	21.79	5.17	21.07	4.99	19.64	4.63
	7	6	25.36	5.77	23.93	5.42	22.50	5.07	21.79	4.90	21.07	4.74	19.64	4.40
	9	7.9	25.36	5.46	23.93	5.14	22.50	4.81	21.79	4.66	21.07	4.49	19.64	4.19
	11	9.8	25.36	5.18	23.93	4.88	22.50	4.58	21.79	4.42	21.07	4.27	19.64	3.99
	13	11.8	25.36	4.90	23.93	4.62	22.50	4.34	21.79	4.20	21.07	4.06	19.64	3.79
	15	13.7	25.36	4.67	23.93	4.39	22.50	4.13	21.79	4.00	21.07	3.88	19.64	3.62
50%	-19.8	-20	21.12	9.64	19.94	8.98	18.75	8.34	18.04	8.03	17.45	7.72	16.26	7.11
	-18.8	-19	21.12	9.43	19.94	8.79	18.75	8.17	18.04	7.86	17.45	7.55	16.26	6.97
	-16.7	-17	21.12	9.00	19.94	8.39	18.75	7.81	18.04	7.52	17.45	7.24	16.26	6.68
	-13.7	-15	21.12	8.57	19.94	8.00	18.75	7.44	18.04	7.17	17.45	6.90	16.26	6.37
	-11.8	-13	21.12	8.14	19.94	7.60	18.75	7.07	18.04	6.82	17.45	6.56	16.26	6.07
	-9.8	-11	21.12	7.71	19.94	7.20	18.75	6.71	18.04	6.47	17.45	6.23	16.26	5.77
	-9.5	-10	21.12	7.50	19.94	7.00	18.75	6.54	18.04	6.30	17.45	6.07	16.26	5.62
	-8.5	-9.1	21.12	7.31	19.94	6.84	18.75	6.37	18.04	6.15	17.45	5.93	16.26	5.49
	-7	-7.6	21.12	7.00	19.94	6.56	18.75	6.12	18.04	5.91	17.45	5.70	16.26	5.28
	-5	-5.6	21.12	6.61	19.94	6.20	18.75	5.79	18.04	5.59	17.45	5.39	16.26	5.00
	-3	-3.7	21.12	6.26	19.94	5.87	18.75	5.49	18.04	5.30	17.45	5.11	16.26	4.75
	0	-0.7	21.12	5.74	19.94	5.39	18.75	5.05	18.04	4.88	17.45	4.72	16.26	4.39
	3	2.2	21.12	5.29	19.94	4.97	18.75	4.66	18.04	4.51	17.45	4.35	16.26	4.06
	5	4.1	21.12	5.02	19.94	4.72	18.75	4.42	18.04	4.28	17.45	4.14	16.26	3.86
	7	6	21.12	4.76	19.94	4.48	18.75	4.21	18.04	4.07	17.45	3.95	16.26	3.69
	9	7.9	21.12	4.52	19.94	4.26	18.75	4.00	18.04	3.89	17.45	3.76	16.26	3.51
	11	9.8	21.12	4.30	19.94	4.05	18.75	3.82	18.04	3.70	17.45	3.58	16.26	3.35
	13	11.8	21.12	4.09	19.94	3.85	18.75	3.63	18.04	3.53	17.45	3.41	16.26	3.20
	15	13.7	21.12	3.89	19.94	3.68	18.75	3.47	18.04	3.36	17.45	3.26	16.26	3.06

Note:

1, is shown as reference

2, The above table shows the average value of conditions may operate

3, It is recommended to connect less than 130%

14HP cooling mode

Combination (%) (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		DB:20.8,WB:14		DB:23.3,WB:16		DB:25.8,WB:18		DB:27,WB:19		DB:28.2,WB:20		DB:30.7,WB:22		DB:32,WB:24	
		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	35.14	5.67	41.86	6.94	48.57	8.25	50.43	8.43	51.00	8.26	52.28	7.91	53.57	7.55
	12	35.14	5.77	41.86	7.07	48.57	8.41	49.71	8.38	50.43	8.21	51.57	7.85	52.86	7.73
	14	35.14	5.89	41.86	7.20	48.43	8.51	49.14	8.41	49.71	8.16	51.00	8.10	52.28	8.18
	16	35.14	5.99	41.86	7.35	47.86	8.48	48.43	8.35	49.00	8.45	50.28	8.53	51.57	8.61
	18	35.14	6.11	41.86	7.50	47.14	8.79	47.71	8.84	48.43	8.89	49.71	8.98	51.00	9.06
	20	35.14	6.24	41.86	7.98	46.43	9.23	47.14	9.27	47.71	9.32	49.00	9.41	50.28	9.51
	21	35.14	6.40	41.86	8.26	46.14	9.44	46.85	9.49	47.43	9.54	48.71	9.64	50.00	9.72
	23	35.14	6.87	41.86	8.86	45.57	9.87	46.14	9.92	46.71	9.97	48.00	10.07	49.28	10.17
	25	35.14	7.33	41.86	9.49	44.85	10.30	45.43	10.35	46.14	10.42	47.43	10.52	48.71	10.62
	27	35.14	7.83	41.86	10.15	44.28	10.73	44.85	10.80	45.43	10.85	46.71	10.97	48.00	11.08
	29	35.14	8.36	41.86	10.85	43.57	11.17	44.14	11.23	44.85	11.30	46.14	11.42	47.43	11.53
	31	35.14	8.93	41.71	11.48	42.85	11.61	43.57	11.68	44.14	11.73	45.43	11.86	46.71	12.00
	33	35.14	9.51	41.00	11.91	42.28	12.04	42.85	12.11	43.57	12.18	44.85	12.31	46.00	12.44
	35	35.14	10.14	40.28	12.34	41.57	12.49	42.28	12.56	42.85	12.63	44.14	12.78	45.43	12.91
	37	35.14	10.79	39.71	12.79	41.00	12.94	41.57	13.01	42.28	13.09	43.43	13.24	44.71	13.39
	39	35.14	11.48	39.00	12.93	40.28	13.37	41.00	13.46	41.57	13.54	42.85	13.69	44.14	13.85
	42	35.14	12.08	38.60	13.05	39.86	13.50	40.58	13.58	41.15	13.66	42.43	13.72	42.45	13.98
	44	35.14	12.70	38.19	13.18	39.44	13.57	40.15	13.71	40.30	13.70	40.89	13.77	41.44	14.04
	46	35.14	13.31	38.03	13.30	39.02	13.75	39.73	13.76	39.96	13.79	40.17	13.82	40.80	14.51
120%	10	32.43	5.18	38.57	6.32	44.86	7.52	48.00	8.13	50.29	8.48	51.43	8.15	52.57	7.83
	12	32.43	5.28	38.57	6.44	44.86	7.66	48.00	8.28	49.57	8.43	50.71	8.11	51.86	7.78
	14	32.43	5.38	38.57	6.57	44.86	7.81	48.00	8.45	48.86	8.38	50.14	8.06	51.28	8.11
	16	32.43	5.47	38.57	6.70	44.86	7.96	47.71	8.51	48.28	8.40	49.43	8.48	50.57	8.54
	18	32.43	5.57	38.57	6.84	44.86	8.23	47.00	8.79	47.57	8.83	48.72	8.91	50.00	8.99
	20	32.43	5.69	38.57	7.10	44.86	8.86	46.43	9.22	47.00	9.26	48.14	9.34	49.29	9.42
	21	32.43	5.74	38.57	7.35	44.86	9.17	46.00	9.44	46.57	9.47	47.86	9.56	49.00	9.66
	23	32.43	6.14	38.57	7.88	44.86	9.82	45.43	9.85	46.00	9.90	47.14	10.00	48.28	10.09
	25	32.43	6.55	38.57	8.43	44.14	10.25	44.71	10.29	45.28	10.34	46.57	10.44	47.71	10.53
	27	32.43	7.00	38.57	9.01	43.57	10.67	44.14	10.73	44.71	10.78	45.86	10.88	47.00	10.98
	29	32.43	7.47	38.57	9.62	42.86	11.10	43.43	11.16	44.00	11.21	45.14	11.33	46.43	11.43
	31	32.43	7.96	38.57	10.27	42.14	11.55	42.86	11.60	43.43	11.66	44.57	11.78	45.71	11.90
	33	32.43	8.48	38.57	10.95	41.57	11.98	42.14	12.04	42.71	12.09	43.86	12.23	45.00	12.34
	35	32.43	9.03	38.57	11.68	40.86	12.41	41.43	12.48	42.14	12.54	43.28	12.68	44.43	12.81
	37	32.43	9.61	38.57	12.44	40.28	12.86	40.86	12.92	41.43	12.99	42.57	13.12	43.71	13.27
	39	32.43	10.22	38.43	13.14	39.57	13.29	40.14	13.37	40.72	13.44	42.00	13.59	43.14	13.72
	42	32.43	10.59	38.01	13.26	39.16	13.41	39.73	13.50	40.30	13.56	41.59	13.64	41.49	13.86
	44	32.43	10.72	37.81	13.39	38.74	13.51	39.32	13.54	39.89	13.60	40.34	13.69	41.02	14.34
	46	32.43	10.84	37.60	13.51	38.41	13.66	38.90	13.75	39.60	13.77	39.93	13.72	40.66	14.47
110%	10	29.71	4.69	35.43	5.72	41.14	6.80	44.00	7.35	46.86	7.91	50.43	8.40	51.57	8.11
	12	29.71	4.80	35.43	5.84	41.14	6.94	44.00	7.50	46.86	8.06	49.86	8.36	50.86	8.06
	14	29.71	4.88	35.43	5.94	41.14	7.07	44.00	7.63	46.86	8.21	49.14	8.31	50.29	8.05
	16	29.71	4.96	35.43	6.06	41.14	7.20	44.00	7.78	46.86	8.38	48.57	8.41	49.57	8.49
	18	29.71	5.06	35.43	6.17	41.14	7.35	44.00	8.00	46.86	8.78	47.86	8.84	49.00	8.93
	20	29.71	5.16	35.43	6.30	41.14	7.78	44.00	8.59	46.14	9.21	47.29	9.27	48.29	9.36
	21	29.71	5.21	35.43	6.49	41.14	8.06	44.00	8.91	45.86	9.42	46.86	9.49	48.00	9.57
	23	29.71	5.46	35.43	6.95	41.14	8.64	44.00	9.56	45.15	9.84	46.29	9.94	47.29	10.02
	25	29.71	5.82	35.43	7.43	41.14	9.24	44.00	10.24	44.57	10.27	45.57	10.37	46.71	10.45
	27	29.71	6.21	35.43	7.95	41.14	9.89	43.29	10.67	43.86	10.70	45.00	10.80	46.00	10.90
	29	29.71	6.62	35.43	8.48	41.14	10.57	42.72	11.10	43.29	11.15	44.29	11.25	45.43	11.35
	31	29.71	7.05	35.43	9.04	41.14	11.28	42.00	11.53	42.57	11.58	43.72	11.68	44.71	11.80
	33	29.71	7.50	35.43	9.64	40.86	11.90	41.43	11.96	42.00	12.01	43.00	12.13	44.14	12.24
	35	29.71	7.98	35.43	10.27	40.15	12.33	40.72	12.39	41.29	12.46	42.29	12.58	43.43	12.69
	37	29.71	8.49	35.43	10.93	39.57	12.78	40.15	12.83	40.57	12.89	41.72	13.02	42.72	13.14
	39	29.71	9.03	35.43	11.65	38.86	13.21	39.43	13.27	40.00	13.34	41.00	13.47	42.15	13.60
	42	29.71	9.15	35.43	11.77	38.45	13.33	39.02	13.40	39.60	13.46	40.31	13.60	40.45	13.73
	44	29.71	9.27	35.43	11.90	38.05	13.45	38.62	13.52	39.19	13.59	39.93	13.63	40.04	14.22
	46	29.71	9.51	35.43	12.02	37.68	13.58	38.21	13.72	38.89	13.71	39.49	14.34	39.70	14.38
100%	10	27.00	4.25	32.14	5.14	37.43	6.09	40.00	6.59	42.57	7.08	47.86	8.10	50.57	8.38
	12	27.00	4.31	32.14	5.24	37.43	6.20	40.00	6.70	42.57	7.22	47.86	8.25	49.86	8.33

	14	27.00	4.40	32.14	5.34	37.43	6.32	40.00	6.84	42.57	7.35	47.86	8.41	49.28	8.28
	16	27.00	4.48	32.14	5.44	37.43	6.45	40.00	6.97	42.57	7.50	47.57	8.51	48.57	8.43
	18	27.00	4.56	32.14	5.54	37.43	6.57	40.00	7.10	42.57	7.65	47.00	8.79	48.00	8.86
	20	27.00	4.65	32.14	5.66	37.43	6.77	40.00	7.46	42.57	8.20	46.28	9.21	47.28	9.29
	21	27.00	4.70	32.14	5.71	37.43	7.02	40.00	7.73	42.57	8.48	46.00	9.42	47.00	9.51
	23	27.00	4.81	32.14	6.09	37.43	7.52	40.00	8.28	42.57	9.09	45.43	9.85	46.28	9.94
	25	27.00	5.13	32.14	6.50	37.43	8.05	40.00	8.88	42.57	9.74	44.72	10.29	45.71	10.37
	27	27.00	5.47	32.14	6.93	37.43	8.59	40.00	9.49	42.57	10.42	44.00	10.72	45.00	10.82
	29	27.00	5.82	32.14	7.40	37.43	9.17	40.00	10.14	42.43	11.07	43.43	11.17	44.43	11.25
	31	27.00	6.20	32.14	7.90	37.43	9.79	40.00	10.82	41.86	11.50	42.72	11.60	43.71	11.70
	33	27.00	6.59	32.14	8.41	37.43	10.44	40.00	11.55	41.14	11.93	42.14	12.03	43.14	12.14
	35	27.00	7.00	32.14	8.94	37.43	11.13	40.00	12.31	40.43	12.36	41.43	12.47	42.43	12.58
	37	27.00	7.45	32.14	9.52	37.43	11.86	39.28	12.74	39.86	12.81	40.86	12.92	41.72	13.02
	39	27.00	7.91	32.14	10.12	37.43	12.63	38.71	13.17	39.14	13.24	40.14	13.36	41.14	13.49
	42	27.00	8.41	32.14	10.61	37.43	13.24	37.91	13.30	38.74	13.51	39.21	13.67	40.34	13.86
	44	27.00	8.90	32.14	11.10	37.43	13.42	37.11	13.54	38.38	13.63	40.14	13.85	39.31	13.98
	46	27.00	9.39	32.14	11.60	37.43	13.70	36.31	13.67	38.34	14.00	38.54	14.09	38.74	14.23
90%	10	24.29	3.80	29.00	4.58	33.71	5.41	36.00	5.84	38.29	6.27	43.00	7.17	47.71	8.08
	12	24.29	3.87	29.00	4.66	33.71	5.51	36.00	5.94	38.29	6.39	43.00	7.30	47.71	8.23
	14	24.29	3.93	29.00	4.74	33.71	5.61	36.00	6.06	38.29	6.50	43.00	7.43	47.71	8.38
	16	24.29	4.00	29.00	4.83	33.71	5.72	36.00	6.17	38.29	6.64	43.00	7.58	47.57	8.53
	18	24.29	4.06	29.00	4.93	33.71	5.82	36.00	6.29	38.29	6.77	43.00	7.73	47.00	8.79
	20	24.29	4.15	29.00	5.04	33.71	5.94	36.00	6.42	38.29	7.02	43.00	8.31	46.29	9.21
	21	24.29	4.18	29.00	5.08	33.71	6.04	36.00	6.64	38.29	7.27	43.00	8.61	46.00	9.42
	23	24.29	4.26	29.00	5.28	33.71	6.47	36.00	7.12	38.29	7.80	43.00	9.24	45.28	9.85
	25	24.29	4.50	29.00	5.64	33.71	6.92	36.00	7.61	38.29	8.33	43.00	9.89	44.72	10.29
	27	24.29	4.78	29.00	6.01	33.71	7.38	36.00	8.13	38.29	8.91	43.00	10.58	44.00	10.72
	29	24.29	5.09	29.00	6.40	33.71	7.88	36.00	8.68	38.29	9.52	42.57	11.07	43.43	11.15
	31	24.29	5.41	29.00	6.82	33.71	8.39	36.00	9.26	38.29	10.15	41.86	11.50	42.71	11.60
	33	24.29	5.74	29.00	7.25	33.71	8.96	36.00	9.87	38.29	10.83	41.28	11.94	42.14	12.03
	35	24.29	6.10	29.00	7.71	33.71	9.54	36.00	10.52	38.29	11.55	40.57	12.38	41.43	12.48
	37	24.29	6.47	29.00	8.20	33.71	10.15	36.00	11.20	38.29	12.31	39.86	12.81	40.86	12.91
	39	24.29	6.87	29.00	8.73	33.71	10.80	36.00	11.93	38.29	13.11	39.29	13.26	40.14	13.35
	42	24.29	7.18	29.00	9.25	33.71	11.33	36.00	12.35	38.29	13.21	38.92	13.70	39.78	13.77
	44	24.29	7.71	29.00	9.78	33.71	11.85	36.00	12.77	38.29	13.72	38.70	13.83	39.28	13.99
	46	24.29	8.13	29.00	10.20	33.71	12.27	36.00	13.19	38.29	13.96	38.49	13.99	38.57	14.15
80%	10	21.57	3.37	25.72	4.03	29.86	4.75	32.00	5.11	34.14	5.48	38.28	6.25	42.43	7.05
	12	21.57	3.42	25.72	4.10	29.86	4.83	32.00	5.21	34.14	5.59	38.28	6.37	42.43	7.18
	14	21.57	3.48	25.72	4.18	29.86	4.91	32.00	5.29	34.14	5.69	38.28	6.49	42.43	7.32
	16	21.57	3.53	25.72	4.25	29.86	5.01	32.00	5.39	34.14	5.79	38.28	6.62	42.43	7.45
	18	21.57	3.60	25.72	4.33	29.86	5.11	32.00	5.51	34.14	5.91	38.28	6.75	42.43	7.60
	20	21.57	3.67	25.72	4.41	29.86	5.21	32.00	5.61	34.14	6.02	38.28	7.00	42.43	8.13
	21	21.57	3.70	25.72	4.45	29.86	5.26	32.00	5.67	34.14	6.16	38.28	7.25	42.43	8.43
	23	21.57	3.77	25.72	4.55	29.86	5.51	32.00	6.04	34.14	6.59	38.28	7.76	42.43	9.04
	25	21.57	3.88	25.72	4.83	29.86	5.89	32.00	6.45	34.14	7.03	38.28	8.31	42.43	9.67
	27	21.57	4.13	25.72	5.14	29.86	6.27	32.00	6.89	34.14	7.52	38.28	8.88	42.43	10.35
	29	21.57	4.40	25.72	5.48	29.86	6.69	32.00	7.33	34.14	8.03	38.28	9.47	42.43	11.07
	31	21.57	4.66	25.72	5.82	29.86	7.12	32.00	7.81	34.14	8.56	38.28	10.12	41.72	11.50
	33	21.57	4.96	25.72	6.19	29.86	7.58	32.00	8.33	34.14	9.11	38.28	10.78	41.14	11.93
	35	21.57	5.26	25.72	6.59	29.86	8.06	32.00	8.86	34.14	9.71	38.28	11.50	40.43	12.36
	37	21.57	5.57	25.72	6.98	29.86	8.58	32.00	9.44	34.14	10.34	38.28	12.26	39.86	12.79
	39	21.57	5.91	25.72	7.45	29.86	9.13	32.00	10.04	34.14	11.00	38.28	13.06	39.14	13.24
	42	21.57	6.08	25.72	7.54	29.86	9.30	32.00	10.39	34.14	11.27	38.28	13.50	38.82	13.55
	44	21.57	6.35	25.72	7.63	29.86	9.48	32.00	10.57	34.14	11.44	38.28	13.59	38.50	13.68
	46	21.57	6.44	25.72	7.71	29.86	9.67	32.00	10.84	34.14	11.66	38.28	13.80	38.18	14.00
70%	10	18.86	2.97	22.57	3.52	26.14	4.10	28.00	4.41	29.86	4.73	33.43	5.38	37.14	6.04
	12	18.86	3.00	22.57	3.57	26.14	4.18	28.00	4.50	29.86	4.81	33.43	5.47	37.14	6.16
	14	18.86	3.05	22.57	3.63	26.14	4.25	28.00	4.56	29.86	4.89	33.43	5.57	37.14	6.27
	16	18.86	3.10	22.57	3.70	26.14	4.33	28.00	4.66	29.86	4.99	33.43	5.67	37.14	6.39
	18	18.86	3.15	22.57	3.77	26.14	4.41	28.00	4.74	29.86	5.08	33.43	5.79	37.14	6.52
	20	18.86	3.20	22.57	3.83	26.14	4.50	28.00	4.83	29.86	5.18	33.43	5.91	37.14	6.70
	21	18.86	3.24	22.57	3.87	26.14	4.53	28.00	4.88	29.86	5.23	33.43	5.99	37.14	6.93
	23	18.86	3.28	22.57	3.93	26.14	4.63	28.00	5.04	29.86	5.49	33.43	6.42	37.14	7.43
	25	18.86	3.35	22.57	4.10	26.14	4.93	28.00	5.39	29.86	5.86	33.43	6.87	37.14	7.95

	27	18.86	3.55	22.57	4.36	26.14	5.26	28.00	5.74	29.86	6.25	33.43	7.33	37.14	8.49
	29	18.86	3.77	22.57	4.63	26.14	5.59	28.00	6.12	29.86	6.65	33.43	7.81	37.14	9.08
	31	18.86	3.98	22.57	4.91	26.14	5.96	28.00	6.50	29.86	7.08	33.43	8.33	37.14	9.67
	33	18.86	4.23	22.57	5.23	26.14	6.34	28.00	6.92	29.86	7.55	33.43	8.88	37.14	10.32
	35	18.86	4.48	22.57	5.54	26.14	6.72	28.00	7.37	29.86	8.03	33.43	9.46	37.14	11.00
	37	18.86	4.73	22.57	5.87	26.14	7.15	28.00	7.81	29.86	8.54	33.43	10.07	37.14	11.71
	39	18.86	5.01	22.57	6.22	26.14	7.58	28.00	8.31	29.86	9.08	33.43	10.70	37.14	12.48
	42	18.86	5.31	22.57	6.52	26.14	7.88	28.00	8.68	29.86	9.44	33.43	11.29	37.14	13.21
	44	18.86	5.66	22.57	6.88	26.14	8.12	28.00	9.05	29.86	9.81	33.43	11.81	37.14	13.65
	46	18.86	5.91	22.57	7.18	26.14	8.47	28.00	9.34	29.86	10.11	33.43	12.17	37.14	13.95
60%	10	16.14	2.57	19.29	3.02	22.43	3.50	24.00	3.75	25.57	4.00	28.71	4.53	31.86	5.08
	12	16.14	2.62	19.29	3.07	22.43	3.57	24.00	3.82	25.57	4.06	28.71	4.61	31.86	5.16
	14	16.14	2.65	19.29	3.12	22.43	3.62	24.00	3.88	25.57	4.15	28.71	4.69	31.86	5.26
	16	16.14	2.69	19.29	3.17	22.43	3.68	24.00	3.95	25.57	4.21	28.71	4.78	31.86	5.36
	18	16.14	2.74	19.29	3.22	22.43	3.75	24.00	4.01	25.57	4.30	28.71	4.86	31.86	5.46
	20	16.14	2.77	19.29	3.28	22.43	3.82	24.00	4.10	25.57	4.38	28.71	4.96	31.86	5.57
	21	16.14	2.80	19.29	3.30	22.43	3.85	24.00	4.13	25.57	4.41	28.71	5.01	31.86	5.62
	23	16.14	2.84	19.29	3.37	22.43	3.91	24.00	4.21	25.57	4.50	28.71	5.21	31.86	5.99
	25	16.14	2.89	19.29	3.42	22.43	4.06	24.00	4.41	25.57	4.78	28.71	5.56	31.86	6.39
	27	16.14	3.00	19.29	3.63	22.43	4.33	24.00	4.71	25.57	5.09	28.71	5.92	31.86	6.82
	29	16.14	3.17	19.29	3.85	22.43	4.61	24.00	5.01	25.57	5.42	28.71	6.32	31.86	7.28
	31	16.14	3.37	19.29	4.08	22.43	4.89	24.00	5.32	25.57	5.77	28.71	6.72	31.86	7.75
	33	16.14	3.55	19.29	4.33	22.43	5.19	24.00	5.66	25.57	6.14	28.71	7.15	31.86	8.26
	35	16.14	3.77	19.29	4.59	22.43	5.51	24.00	6.00	25.57	6.52	28.71	7.61	31.86	8.79
	37	16.14	3.98	19.29	4.86	22.43	5.84	24.00	6.37	25.57	6.92	28.71	8.10	31.86	9.36
	39	16.14	4.20	19.29	5.14	22.43	6.19	24.00	6.75	25.57	7.35	28.71	8.59	31.86	9.95
	42	16.14	4.38	19.29	5.44	22.43	6.49	24.00	7.11	25.57	7.71	28.71	9.13	31.86	10.55
	44	16.14	4.56	19.29	5.74	22.43	6.79	24.00	7.35	25.57	8.06	28.71	9.63	31.86	11.15
	46	16.14	4.80	19.29	6.00	22.43	7.03	24.00	7.65	25.57	8.49	28.71	9.97	31.86	11.75
50%	10	13.50	2.22	16.14	2.57	18.71	2.94	20.00	3.14	21.29	3.32	23.86	3.73	26.57	4.16
	12	13.50	2.24	16.14	2.60	18.71	2.99	20.00	3.17	21.29	3.38	23.86	3.80	26.57	4.23
	14	13.50	2.27	16.14	2.64	18.71	3.02	20.00	3.23	21.29	3.43	23.86	3.87	26.57	4.31
	16	13.50	2.31	16.14	2.67	18.71	3.07	20.00	3.28	21.29	3.48	23.86	3.93	26.57	4.38
	18	13.50	2.34	16.14	2.72	18.71	3.12	20.00	3.33	21.29	3.55	23.86	4.00	26.57	4.46
	20	13.50	2.37	16.14	2.75	18.71	3.17	20.00	3.38	21.29	3.62	23.86	4.06	26.57	4.55
	21	13.50	2.39	16.14	2.79	18.71	3.20	20.00	3.42	21.29	3.65	23.86	4.11	26.57	4.60
	23	13.50	2.42	16.14	2.82	18.71	3.25	20.00	3.48	21.29	3.72	23.86	4.18	26.57	4.69
	25	13.50	2.46	16.14	2.87	18.71	3.32	20.00	3.55	21.29	3.83	23.86	4.40	26.57	5.01
	27	13.50	2.50	16.14	2.99	18.71	3.50	20.00	3.78	21.29	4.06	23.86	4.68	26.57	5.34
	29	13.50	2.64	16.14	3.15	18.71	3.72	20.00	4.01	21.29	4.33	23.86	4.98	26.57	5.69
	31	13.50	2.79	16.14	3.33	18.71	3.93	20.00	4.26	21.29	4.60	23.86	5.29	26.57	6.06
	33	13.50	2.95	16.14	3.53	18.71	4.18	20.00	4.51	21.29	4.88	23.86	5.62	26.57	6.44
	35	13.50	3.12	16.14	3.73	18.71	4.41	20.00	4.78	21.29	5.16	23.86	5.97	26.57	6.83
	37	13.50	3.28	16.14	3.95	18.71	4.68	20.00	5.06	21.29	5.47	23.86	6.34	26.57	7.27
	39	13.50	3.47	16.14	4.16	18.71	4.94	20.00	5.36	21.29	5.81	23.86	6.72	26.57	7.71
	42	13.50	3.66	16.14	4.40	18.71	5.18	20.00	5.69	21.29	6.14	23.86	7.20	26.57	8.19
	44	13.50	3.85	16.14	4.64	18.71	5.42	20.00	6.03	21.29	6.28	23.86	7.67	26.57	8.67
	46	13.50	4.03	16.14	4.88	18.71	5.66	20.00	6.31	21.29	6.47	23.86	8.15	26.57	9.15

Note:

1, is shown as reference

2, The above table shows the average value of conditions may operate

3, It is recommended to connect less than 130%

14HP heating mode

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	kW
130%	-19.8	-20	29.14	8.31	29.00	8.75	28.86	9.26	28.86	9.58	28.72	9.83	28.72	10.41
	-18.8	-19	29.57	8.41	29.43	8.88	29.43	9.43	29.29	9.69	29.29	9.98	29.14	10.55
	-16.7	-17	30.71	8.71	30.57	9.20	30.43	9.77	30.43	10.04	30.43	10.31	30.29	10.84
	-13.7	-15	32.00	9.08	31.86	9.56	31.71	10.13	31.71	10.38	31.57	10.65	31.57	11.17
	-11.8	-13	33.29	9.41	33.29	9.96	33.14	10.49	33.00	10.74	33.00	10.99	32.86	11.48
	-9.8	-11	34.86	9.86	34.71	10.38	34.57	10.86	34.57	11.10	34.57	11.33	34.43	11.81
	-9.5	-10	35.71	10.02	35.57	10.58	35.43	11.04	35.43	11.27	35.28	11.50	35.28	11.96
	-8.5	-9.1	36.43	10.22	36.29	10.74	36.29	11.20	36.14	11.42	36.14	11.65	36.00	12.11
	-7	-7.6	37.71	10.49	37.71	11.04	37.57	11.47	37.57	11.69	37.43	11.90	37.28	12.35
	-5	-5.6	39.71	10.99	39.57	11.41	39.43	11.83	39.43	12.04	39.29	12.23	39.29	12.65
	-3	-3.7	41.57	11.35	41.43	11.75	41.43	12.14	41.28	12.35	41.28	12.54	41.14	12.93
	0	-0.7	44.85	11.90	44.85	12.27	44.71	12.63	44.71	12.77	44.57	13.01	44.57	13.36
	3	2.2	48.42	12.39	48.29	12.74	48.14	13.08	48.14	13.24	48.14	13.42	48.00	13.75
	5	4.1	50.85	12.71	50.71	13.04	50.71	13.35	50.57	13.51	50.57	13.68	50.43	13.99
	7	6	53.43	13.01	53.28	13.30	53.28	13.62	53.14	13.77	53.14	13.92	51.00	13.36
	9	7.9	56.14	13.27	56.00	13.57	56.00	13.86	55.86	14.01	54.71	13.71	51.00	12.56
	11	9.8	59.00	13.54	58.86	13.81	58.57	13.99	56.57	13.44	54.71	12.89	51.00	11.83
	13	11.8	62.14	13.80	62.00	14.07	58.57	13.11	56.57	12.59	54.71	12.10	51.00	11.10
	15	13.7	65.14	14.04	62.28	13.32	58.57	12.35	56.57	11.87	54.71	11.39	51.00	10.47
120%	-19.8	-20	29.00	8.51	28.86	8.93	28.71	9.44	28.71	9.69	28.71	9.94	28.57	10.45
	-18.8	-19	29.43	8.59	29.29	9.09	29.29	9.59	29.14	9.83	29.14	10.08	29.00	10.58
	-16.7	-17	30.57	8.93	30.43	9.42	30.24	9.88	30.29	10.12	30.29	10.36	30.14	10.83
	-13.7	-15	31.86	9.29	31.72	9.74	31.57	10.20	31.57	10.44	31.57	10.66	31.43	11.12
	-11.8	-13	33.15	9.64	33.15	10.08	33.00	10.52	33.00	10.75	32.86	10.96	32.86	11.40
	-9.8	-11	34.71	10.01	34.57	10.42	34.57	10.85	34.43	11.06	34.43	11.26	34.29	11.68
	-9.5	-10	35.58	10.20	35.43	10.61	35.29	11.00	35.29	11.22	35.29	11.41	35.14	11.82
	-8.5	-9.1	36.29	10.35	36.14	10.75	36.14	11.14	36.00	11.34	36.00	11.56	35.86	11.95
	-7	-7.6	37.57	10.62	37.57	11.00	37.43	11.38	37.43	11.58	37.29	11.77	37.29	12.15
	-5	-5.6	39.57	10.96	39.43	11.33	39.28	11.70	39.28	11.88	39.28	12.06	39.15	12.42
	-3	-3.7	41.43	11.29	41.43	11.64	41.29	11.98	41.29	12.15	41.14	12.33	41.14	12.67
	0	-0.7	44.72	11.77	44.72	12.09	44.57	12.40	44.57	12.58	44.43	12.73	44.43	13.06
	3	2.2	48.29	12.21	48.14	12.50	48.14	12.80	48.00	12.96	48.00	13.10	47.00	13.03
	5	4.1	50.72	12.47	50.57	12.76	50.57	13.04	50.43	13.18	50.43	13.33	47.00	12.23
	7	6	53.29	12.73	53.29	13.00	53.15	13.27	52.29	13.08	50.57	12.55	47.00	11.51
	9	7.9	56.00	12.99	55.86	13.24	54.00	12.80	52.29	12.29	50.57	11.80	47.00	10.83
	11	9.8	58.86	13.21	57.43	12.99	54.00	12.04	52.29	11.57	50.57	11.10	47.00	10.21
	13	11.8	61.00	13.08	57.43	12.18	54.00	11.29	52.29	10.86	50.57	10.44	47.00	9.60
	15	13.7	61.00	12.32	57.43	11.47	54.00	10.65	52.29	10.24	50.57	9.84	47.00	9.06
110%	-19.8	-20	28.86	9.42	28.72	9.88	28.57	10.36	28.57	10.60	28.58	10.83	28.43	11.31
	-18.8	-19	29.29	9.56	29.14	10.03	29.14	10.49	29.14	10.73	29.00	10.96	29.00	11.42
	-16.7	-17	30.43	9.88	30.29	10.33	30.71	10.78	30.14	11.00	30.14	11.23	30.00	11.67
	-13.7	-15	31.72	10.22	31.58	10.65	31.43	10.93	31.43	11.29	31.43	11.51	31.28	11.93
	-11.8	-13	33.00	10.56	33.00	10.97	32.86	11.38	32.86	11.58	32.71	11.79	32.71	12.21
	-9.8	-11	34.57	10.90	34.43	11.29	34.43	11.68	34.28	11.89	34.28	12.08	34.28	12.47
	-9.5	-10	35.43	11.07	35.29	11.45	35.14	11.84	35.14	12.03	35.14	12.22	35.00	12.46
	-8.5	-9.1	36.14	11.22	36.00	11.60	36.00	11.97	35.86	12.16	35.86	12.35	35.86	12.58
	-7	-7.6	37.43	11.48	37.43	11.83	37.29	12.19	37.29	12.38	37.29	12.56	37.14	12.60
	-5	-5.6	39.43	11.80	39.29	12.15	39.14	12.48	39.14	12.66	39.14	12.83	39.00	12.74
	-3	-3.7	41.29	12.11	41.29	12.43	41.14	12.76	41.14	12.92	41.00	13.08	41.00	12.86
	0	-0.7	44.57	12.56	44.57	12.86	44.43	13.17	44.43	13.31	44.43	13.47	43.14	13.21
	3	2.2	48.14	12.98	48.00	13.25	48.00	13.53	47.86	13.66	46.29	13.11	43.14	12.02
	5	4.1	50.57	13.22	50.57	13.50	49.57	13.37	47.86	12.83	46.29	12.32	43.14	11.31
	7	6	53.14	13.47	52.71	13.56	49.57	12.56	47.86	12.06	46.29	11.58	43.14	10.64
	9	7.9	55.86	13.69	52.71	12.74	49.57	11.81	47.86	11.35	46.29	10.90	43.14	10.03
	11	9.8	55.86	12.88	52.71	11.99	49.57	11.12	47.86	10.70	46.29	10.27	43.14	9.46
	13	11.8	55.86	12.08	52.71	11.25	49.57	10.45	47.86	10.06	46.29	9.66	43.14	8.91
	15	13.7	55.86	10.73	52.71	10.61	49.57	9.87	47.86	9.49	46.29	9.14	43.14	8.43

	-19.8	-20	28.71	10.17	28.57	10.59	28.57	11.03	28.43	11.25	28.43	11.45	28.29	11.89
	-18.8	-19	29.14	10.30	29.14	10.72	29.00	11.15	29.00	11.36	28.86	11.58	28.86	12.00
	-16.7	-17	30.29	10.59	30.14	11.00	30.14	11.41	30.00	11.61	30.00	11.81	30.00	12.22
	-13.7	-15	31.57	10.90	31.43	11.29	31.28	11.68	31.28	11.89	31.28	12.08	31.14	12.47
	-11.8	-13	32.86	11.22	32.86	11.58	32.72	11.96	32.72	12.15	32.72	12.34	32.57	12.72
	-9.8	-11	34.43	11.52	34.29	11.89	34.29	12.24	34.29	12.43	34.14	12.60	34.14	12.95
	-9.5	-10	35.28	11.68	35.15	12.03	35.15	12.38	35.00	12.56	35.00	12.73	34.86	13.08
	-8.5	-9.1	36.00	11.81	35.86	12.16	35.86	12.50	35.86	12.67	35.72	12.85	35.72	13.18
	-7	-7.6	37.29	12.05	37.29	12.38	37.14	12.70	37.14	12.88	37.14	13.04	37.00	13.37
100%	-5	-5.6	39.29	12.35	39.14	12.66	39.14	12.98	39.00	13.12	39.00	13.28	38.86	13.60
	-3	-3.7	41.14	12.63	41.14	12.31	41.00	13.22	41.00	13.37	41.00	13.52	39.29	12.95
	0	-0.7	44.43	13.04	44.43	12.70	44.28	13.59	43.57	13.37	42.14	12.82	39.29	11.76
	3	2.2	48.00	13.41	47.86	13.35	45.00	12.64	43.57	12.15	42.14	11.67	39.29	10.71
	5	4.1	50.43	13.66	47.86	12.83	45.00	11.89	43.57	11.44	42.14	10.99	39.29	10.10
	7	6	50.72	12.96	47.86	12.06	45.00	11.19	43.57	10.77	42.14	10.35	39.29	9.52
	9	7.9	50.72	12.18	47.86	11.35	45.00	10.54	43.57	10.01	42.14	9.75	39.29	8.98
	11	9.8	50.72	11.47	47.86	10.70	45.00	9.94	43.57	9.56	42.14	9.20	39.29	8.49
	13	11.8	50.72	10.77	47.86	10.06	45.00	9.36	43.57	9.01	42.14	8.68	39.29	8.01
	15	13.7	50.72	10.16	47.86	9.49	45.00	8.84	43.57	8.52	42.14	8.20	39.29	7.59
	-19.8	-20	28.52	10.93	28.38	11.31	28.38	11.70	28.24	11.89	28.24	12.09	28.24	12.47
	-18.8	-19	28.95	11.04	28.95	11.44	28.81	11.81	28.81	12.00	28.81	12.19	28.66	12.57
	-16.7	-17	30.09	11.32	29.95	11.68	29.95	12.05	29.95	12.24	29.80	12.41	29.80	12.77
	-13.7	-15	31.37	11.60	31.23	11.95	31.23	12.29	31.09	12.47	31.09	12.64	31.09	12.99
	-11.8	-13	32.66	11.87	32.66	12.21	32.51	12.54	32.51	12.72	32.51	12.88	32.37	13.21
	-9.8	-11	34.23	12.15	34.23	12.47	34.08	12.79	34.08	12.95	34.08	13.12	33.94	13.44
	-9.5	-10	35.08	12.29	34.94	12.61	34.94	12.92	34.80	13.08	34.80	13.24	34.80	13.54
	-8.5	-9.1	35.79	12.43	35.79	12.73	35.65	13.04	35.65	13.18	35.65	13.34	35.22	13.47
	-7	-7.6	37.08	12.63	37.08	12.92	36.94	13.22	36.94	13.37	36.94	13.51	35.22	12.86
90%	-5	-5.6	39.07	12.90	38.93	13.18	38.93	13.46	38.79	13.60	37.79	13.18	35.22	12.09
	-3	-3.7	40.93	13.15	40.93	13.41	40.50	13.47	39.07	12.93	37.79	12.41	35.22	11.39
	0	-0.7	44.35	13.53	43.07	13.20	40.50	12.22	39.07	11.74	37.79	11.28	35.22	10.36
	3	2.2	45.64	12.89	43.07	12.00	40.50	11.13	39.07	10.71	37.79	10.29	35.22	9.47
	5	4.1	45.64	12.12	43.07	11.29	40.50	10.49	39.07	10.09	37.79	9.71	35.22	8.94
	7	6	45.64	11.39	43.07	10.64	40.50	9.88	39.07	9.52	37.79	9.16	35.22	8.44
	9	7.9	45.64	10.74	43.07	10.01	40.50	9.31	39.07	8.98	37.79	8.65	35.22	7.98
	11	9.8	45.64	10.11	43.07	9.45	40.50	8.81	39.07	8.49	37.79	8.17	35.22	7.56
	13	11.8	45.64	9.52	43.07	8.91	40.50	8.30	39.07	8.01	37.79	7.72	35.22	7.14
	15	13.7	45.64	9.00	43.07	8.41	40.50	7.86	39.07	7.59	37.79	7.31	35.22	6.77
	-19.8	-20	28.43	11.68	28.29	12.02	28.29	12.37	28.29	12.54	28.14	12.72	28.14	13.05
	-18.8	-19	28.86	11.79	28.86	12.13	28.71	12.47	28.71	12.64	28.71	12.80	28.57	13.15
	-16.7	-17	30.00	12.03	29.86	12.35	29.86	12.69	29.86	12.85	29.86	13.01	29.71	13.33
	-13.7	-15	31.28	12.28	31.14	12.58	31.14	12.90	31.14	13.05	31.00	13.21	31.00	13.53
	-11.8	-13	32.57	12.53	32.57	12.83	32.43	13.12	32.43	13.27	32.43	13.43	31.43	13.06
	-9.8	-11	34.14	12.77	34.14	13.06	34.00	13.35	34.00	13.49	33.71	13.46	31.43	12.34
	-9.5	-10	35.00	12.90	34.85	13.18	34.86	13.46	34.86	13.60	33.71	13.06	31.43	11.97
	-8.5	-9.1	35.72	13.02	33.20	13.30	35.57	13.56	34.86	13.25	33.71	12.72	31.43	11.65
	-7	-7.6	37.00	13.21	37.00	13.47	36.00	13.18	34.86	12.66	33.71	12.15	31.43	11.15
80%	-5	-5.6	39.00	13.44	38.29	13.37	36.00	12.38	34.86	11.90	33.71	11.42	31.43	10.49
	-3	-3.7	40.57	13.52	38.29	12.58	36.00	11.65	34.86	11.22	33.71	10.77	31.43	9.91
	0	-0.7	40.57	12.27	38.29	11.42	36.00	10.61	34.86	10.22	33.71	9.81	31.43	9.04
	3	2.2	40.57	11.17	38.29	10.42	36.00	9.69	34.86	9.33	33.71	8.98	31.43	8.28
	5	4.1	40.57	10.52	38.29	9.82	36.00	9.14	34.86	8.81	33.71	8.49	31.43	7.83
	7	6	40.57	9.91	38.29	9.27	36.00	8.63	34.86	8.33	33.71	8.02	31.43	7.41
	9	7.9	40.57	9.36	38.29	8.75	36.00	8.15	34.86	7.86	33.71	7.59	31.43	7.02
	11	9.8	40.57	8.84	38.29	8.27	36.00	7.72	34.86	7.44	33.71	7.18	31.43	6.66
	13	11.8	40.57	8.33	38.29	7.80	36.00	7.29	34.86	7.03	33.71	6.79	31.43	6.29
	15	13.7	40.57	7.88	38.29	7.40	36.00	6.92	34.86	6.67	33.71	6.44	31.43	5.99
	-19.8	-20	28.22	12.44	28.08	12.73	28.08	13.04	28.08	13.18	28.08	13.34	27.37	13.19
	-18.8	-19	28.65	12.54	28.65	12.83	28.51	13.12	28.51	13.27	28.51	13.43	27.37	12.92
70%	-16.7	-17	29.79	12.74	29.79	13.04	29.65	13.31	29.65	13.46	29.36	12.77	27.37	12.32
	-13.7	-15	31.07	12.96	30.93	13.24	30.93	13.51	30.36	13.31	29.36	12.11	27.37	11.71
	-11.8	-13	32.35	13.18	32.35	13.44	31.50	13.12	30.36	12.61	29.36	11.99	27.37	11.10

	-9.8	-11	33.92	13.40	33.49	13.38	31.50	12.40	30.36	11.92	29.36	11.98	27.37	10.51
	-9.5	-10	34.78	13.51	33.49	12.99	31.50	12.03	30.36	11.57	29.36	11.44	27.37	10.22
	-8.5	-9.1	35.49	13.59	33.49	12.64	31.50	11.71	30.36	11.26	29.36	11.12	27.37	9.95
	-7	-7.6	35.49	12.98	33.49	12.08	31.50	11.20	30.36	10.78	29.36	10.83	27.37	9.53
	-5	-5.6	35.49	12.19	33.49	11.36	31.50	10.55	30.36	10.14	29.36	10.36	27.37	9.00
	-3	-3.7	35.49	11.48	33.49	10.71	31.50	9.95	30.36	9.58	29.36	9.21	27.37	8.50
	0	-0.7	35.49	10.45	33.49	9.77	31.50	9.08	30.36	8.75	29.36	8.43	27.37	7.79
	3	2.2	35.49	9.55	33.49	8.94	31.50	8.33	30.36	8.02	29.36	7.73	27.37	7.15
	5	4.1	35.49	9.01	33.49	8.43	31.50	7.88	30.36	7.59	29.36	7.31	27.37	6.77
	7	6	35.49	8.52	33.49	7.98	31.50	7.44	30.36	7.18	29.36	6.93	27.37	6.42
	9	7.9	35.49	8.05	33.49	7.54	31.50	7.05	30.36	6.80	29.36	6.57	27.37	6.09
	11	9.8	35.49	7.61	33.49	7.14	31.50	6.68	30.36	6.45	29.36	6.23	27.37	5.78
	13	11.8	35.49	7.19	33.49	6.76	31.50	6.32	30.36	6.12	29.36	5.90	27.37	5.49
	15	13.7	35.49	6.82	33.49	6.41	31.50	6.00	30.36	5.81	29.36	5.61	27.37	5.23
60%	-19.8	-20	28.14	13.19	28.00	13.44	27.00	12.93	26.14	12.42	25.29	11.93	23.57	10.94
	-18.8	-19	28.57	13.28	28.57	13.53	27.00	12.66	26.14	12.16	25.29	11.67	23.57	10.71
	-16.7	-17	29.71	13.46	28.71	13.03	27.00	12.08	26.14	11.61	25.29	11.15	23.57	10.24
	-13.7	-15	30.43	13.31	28.71	12.38	27.00	11.48	26.14	11.04	25.29	10.61	23.57	9.75
	-11.8	-13	30.43	12.60	28.71	11.73	27.00	10.88	26.14	10.48	25.29	10.07	23.57	9.31
	-9.8	-11	30.43	11.90	28.71	11.09	27.00	10.30	26.14	9.91	25.29	9.53	23.57	8.79
	-9.5	-10	30.43	11.57	28.71	10.78	27.00	10.01	26.14	9.65	25.29	9.27	23.57	8.54
	-8.5	-9.1	30.43	11.26	28.71	10.51	27.00	9.77	26.14	9.40	25.29	9.04	23.57	8.34
	-7	-7.6	30.43	10.77	28.71	10.06	27.00	9.34	26.14	9.01	25.29	8.66	23.57	8.01
	-5	-5.6	30.43	10.14	28.71	9.47	27.00	8.82	26.14	8.50	25.29	8.18	23.57	7.57
	-3	-3.7	30.43	9.58	28.71	8.95	27.00	8.34	26.14	8.05	25.29	7.75	23.57	7.16
	0	-0.7	30.43	8.75	28.71	8.20	27.00	7.64	26.14	7.38	25.29	7.11	23.57	6.58
	3	2.2	30.43	8.02	28.71	7.53	27.00	7.03	26.14	6.79	25.29	6.55	23.57	6.07
	5	4.1	30.43	7.59	28.71	7.12	27.00	6.66	26.14	6.44	25.29	6.21	23.57	5.77
	7	6	30.43	7.18	28.71	6.74	27.00	6.31	26.14	6.10	25.29	5.90	23.57	5.48
	9	7.9	30.43	6.80	28.71	6.39	27.00	5.99	26.14	5.80	25.29	5.59	23.57	5.22
	11	9.8	30.43	6.45	28.71	6.07	27.00	5.70	26.14	5.51	25.29	5.32	23.57	4.97
	13	11.8	30.43	6.10	28.71	5.75	27.00	5.41	26.14	5.23	25.29	5.06	23.57	4.72
	15	13.7	30.43	5.81	28.71	5.46	27.00	5.14	26.14	4.98	25.29	4.82	23.57	4.50
50%	-19.8	-20	25.35	12.00	23.92	11.17	22.50	10.38	21.65	10.00	20.93	9.61	19.51	8.85
	-18.8	-19	25.35	11.74	23.92	10.94	22.50	10.17	21.65	9.78	20.93	9.40	19.51	8.68
	-16.7	-17	25.35	11.20	23.92	10.45	22.50	9.72	21.65	9.36	20.93	9.01	19.51	8.31
	-13.7	-15	25.35	10.67	23.92	9.95	22.50	9.26	21.65	8.92	20.93	8.59	19.51	7.93
	-11.8	-13	25.35	10.13	23.92	9.46	22.50	8.81	21.65	8.49	20.93	8.17	19.51	7.56
	-9.8	-11	25.35	9.59	23.92	8.97	22.50	8.36	21.65	8.05	20.93	7.76	19.51	7.18
	-9.5	-10	25.35	9.33	23.92	8.72	22.50	8.14	21.65	7.85	20.93	7.56	19.51	6.99
	-8.5	-9.1	25.35	9.10	23.92	8.52	22.50	7.93	21.65	7.66	20.93	7.38	19.51	6.83
	-7	-7.6	25.35	8.72	23.92	8.17	22.50	7.61	21.65	7.35	20.93	7.09	19.51	6.57
	-5	-5.6	25.35	8.23	23.92	7.72	22.50	7.21	21.65	6.96	20.93	6.71	19.51	6.22
	-3	-3.7	25.35	7.79	23.92	7.31	22.50	6.83	21.65	6.60	20.93	6.36	19.51	5.91
	0	-0.7	25.35	7.15	23.92	6.71	22.50	6.29	21.65	6.07	20.93	5.87	19.51	5.46
	3	2.2	25.35	6.58	23.92	6.19	22.50	5.80	21.65	5.61	20.93	5.42	19.51	5.06
	5	4.1	25.35	6.25	23.92	5.87	22.50	5.51	21.65	5.33	20.93	5.16	19.51	4.81
	7	6	25.35	5.93	23.92	5.58	22.50	5.25	21.65	5.07	20.93	4.91	19.51	4.59
	9	7.9	25.35	5.62	23.92	5.30	22.50	4.98	21.65	4.84	20.93	4.68	19.51	4.37
	11	9.8	25.35	5.35	23.92	5.04	22.50	4.75	21.65	4.61	20.93	4.46	19.51	4.17
	13	11.8	25.35	5.09	23.92	4.80	22.50	4.52	21.65	4.39	20.93	4.24	19.51	3.98
	15	13.7	25.35	4.84	23.92	4.58	22.50	4.32	21.65	4.19	20.93	4.05	19.51	3.81

Note:

1, is shown as reference

2, The above table shows the average value of conditions may operate

3, It is recommended to connect less than 130%

16HP cooling mode

Combination (%) (Capacity index)	Outdoor temperature (°C DB)	Indoor temperature(°C WB)													
		DB:20.8,WB:14		DB:23.3,WB:16		DB:25.8,WB:18		DB:27,WB:19		DB:28.2,WB:20		DB:30.7,WB:22		DB:32,WB:24	
		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	39.54	6.46	47.09	7.90	54.64	9.39	56.73	9.60	57.37	9.41	58.82	9.01	60.27	8.60
	12	39.54	6.58	47.09	8.05	54.64	9.58	55.93	9.54	56.73	9.35	58.02	8.94	59.46	8.81
	14	39.54	6.71	47.09	8.20	54.48	9.69	55.29	9.58	55.93	9.30	57.37	9.22	58.82	9.32
	16	39.54	6.82	47.09	8.37	53.84	9.66	54.48	9.51	55.12	9.62	56.57	9.71	58.02	9.81
	18	39.54	6.95	47.09	8.54	53.04	10.01	53.68	10.07	54.48	10.13	55.93	10.22	57.37	10.32
	20	39.54	7.11	47.09	9.09	52.23	10.51	53.04	10.56	53.68	10.62	55.12	10.71	56.57	10.83
	21	39.54	7.29	47.09	9.41	51.91	10.75	52.71	10.81	53.35	10.87	54.80	10.98	56.25	11.07
	23	39.54	7.82	47.09	10.09	51.27	11.24	51.91	11.30	52.55	11.36	54.00	11.47	55.44	11.58
	25	39.54	8.35	47.09	10.81	50.46	11.73	51.10	11.79	51.91	11.87	53.35	11.98	54.80	12.09
	27	39.54	8.92	47.09	11.57	49.82	12.23	50.46	12.30	51.10	12.36	52.55	12.49	54.00	12.62
	29	39.54	9.52	47.09	12.36	49.02	12.72	49.66	12.79	50.46	12.87	51.91	13.00	53.35	13.13
	31	39.54	10.17	46.93	13.08	48.21	13.23	49.02	13.30	49.66	13.36	51.10	13.51	52.55	13.66
	33	39.54	10.83	46.12	13.57	47.57	13.72	48.21	13.79	49.02	13.87	50.46	14.02	51.75	14.17
	35	39.54	11.55	45.32	14.06	46.77	14.23	47.57	14.30	48.21	14.38	49.66	14.55	51.10	14.70
	37	39.54	12.28	44.68	14.57	46.12	14.74	46.77	14.82	47.57	14.91	48.85	15.08	50.30	15.25
	39	39.54	13.08	43.87	14.72	45.32	15.23	46.12	15.32	46.77	15.42	48.21	15.59	49.66	15.78
	42	39.54	13.76	43.42	14.86	44.84	15.37	45.65	15.47	46.29	15.56	47.74	15.62	47.76	15.92
	44	39.54	14.46	42.97	15.01	44.37	15.46	45.17	15.61	45.34	15.60	46.00	15.68	46.62	15.99
	46	39.54	15.16	42.79	15.15	43.89	15.66	44.70	15.67	44.96	15.71	45.19	15.74	45.90	16.52
120%	10	36.48	5.90	43.39	7.20	50.47	8.56	54.00	9.26	56.57	9.66	57.86	9.28	59.14	8.92
	12	36.48	6.01	43.39	7.33	50.47	8.73	54.00	9.43	55.77	9.60	57.05	9.24	58.34	8.86
	14	36.48	6.12	43.39	7.48	50.47	8.90	54.00	9.62	54.96	9.54	56.41	9.18	57.69	9.24
	16	36.48	6.24	43.39	7.63	50.47	9.07	53.68	9.69	54.32	9.56	55.61	9.66	56.89	9.73
	18	36.48	6.35	43.39	7.79	50.47	9.37	52.88	10.01	53.52	10.05	54.80	10.15	56.25	10.24
	20	36.48	6.48	43.39	8.09	50.47	10.09	52.23	10.51	52.88	10.54	54.16	10.64	55.45	10.73
	21	36.48	6.54	43.39	8.37	50.47	10.45	51.75	10.75	52.39	10.79	53.84	10.88	55.13	11.00
	23	36.48	6.99	43.39	8.97	50.47	11.19	51.11	11.22	51.75	11.28	53.03	11.39	54.32	11.49
	25	36.48	7.46	43.39	9.60	49.66	11.68	50.30	11.72	50.95	11.77	52.39	11.88	53.68	12.00
	27	36.48	7.97	43.39	10.26	49.02	12.15	49.66	12.23	50.30	12.28	51.59	12.39	52.88	12.51
	29	36.48	8.50	43.39	10.96	48.21	12.64	48.86	12.72	49.50	12.77	50.79	12.90	52.23	13.02
	31	36.48	9.07	43.39	11.70	47.41	13.15	48.21	13.21	48.86	13.28	50.14	13.41	51.43	13.55
	33	36.48	9.66	43.39	12.47	46.76	13.64	47.41	13.72	48.05	13.77	49.34	13.93	50.62	14.06
	35	36.48	10.28	43.39	13.30	45.96	14.13	46.61	14.21	47.41	14.28	48.69	14.44	49.98	14.59
	37	36.48	10.94	43.39	14.17	45.32	14.64	45.96	14.72	46.61	14.79	47.89	14.95	49.18	15.12
	39	36.48	11.64	43.23	14.97	44.52	15.14	45.16	15.23	45.80	15.31	47.25	15.48	48.54	15.63
	42	36.48	12.07	42.77	15.11	44.05	15.28	44.70	15.37	45.34	15.45	46.78	15.53	46.67	15.78
	44	36.48	12.21	42.54	15.25	43.59	15.39	44.23	15.42	44.87	15.49	45.39	15.59	46.14	16.34
	46	36.48	12.35	42.30	15.39	43.21	15.56	43.76	15.66	44.55	15.69	44.92	15.63	45.74	16.48
110%	10	33.43	5.35	39.86	6.52	46.29	7.75	49.50	8.37	52.71	9.01	56.73	9.56	58.02	9.24
	12	33.43	5.46	39.86	6.65	46.29	7.90	49.50	8.54	52.71	9.18	56.09	9.52	57.22	9.18
	14	33.43	5.56	39.86	6.77	46.29	8.05	49.50	8.69	52.71	9.35	55.29	9.47	56.57	9.17
	16	33.43	5.65	39.86	6.90	46.29	8.20	49.50	8.86	52.71	9.54	54.65	9.58	55.77	9.67
	18	33.43	5.76	39.86	7.03	46.29	8.37	49.50	9.11	52.71	10.00	53.84	10.07	55.13	10.17
	20	33.43	5.88	39.86	7.18	46.29	8.86	49.50	9.79	51.91	10.49	53.20	10.56	54.33	10.66
	21	33.43	5.93	39.86	7.39	46.29	9.18	49.50	10.15	51.59	10.73	52.72	10.81	54.00	10.90
	23	33.43	6.22	39.86	7.92	46.29	9.85	49.50	10.88	50.79	11.20	52.08	11.32	53.20	11.41
	25	33.43	6.63	39.86	8.46	46.29	10.52	49.50	11.66	50.14	11.70	51.27	11.81	52.55	11.90
	27	33.43	7.07	39.86	9.05	46.29	11.26	48.70	12.15	49.34	12.19	50.63	12.30	51.75	12.41
	29	33.43	7.54	39.86	9.66	46.29	12.04	48.05	12.64	48.70	12.70	49.82	12.81	51.11	12.93
	31	33.43	8.03	39.86	10.30	46.29	12.85	47.25	13.13	47.89	13.19	49.18	13.30	50.30	13.43
	33	33.43	8.54	39.86	10.98	45.97	13.55	46.61	13.62	47.25	13.68	48.38	13.81	49.66	13.95
	35	33.43	9.09	39.86	11.70	45.16	14.04	45.81	14.12	46.45	14.19	47.57	14.32	48.86	14.46
	37	33.43	9.67	39.86	12.45	44.52	14.55	45.16	14.61	45.65	14.68	46.93	14.83	48.05	14.97
	39	33.43	10.28	39.86	13.27	43.72	15.04	44.36	15.12	45.00	15.19	46.13	15.34	47.41	15.49
	42	33.43	10.42	39.86	13.41	43.26	15.18	43.90	15.26	44.55	15.33	45.35	15.48	45.51	15.64
	44	33.43	10.56	39.86	13.55	42.80	15.32	43.44	15.40	44.09	15.47	44.92	15.53	45.05	16.20
	46	33.43	10.83	39.86	13.69	42.39	15.46	42.98	15.63	43.76	15.62	44.43	16.33	44.66	16.37
100%	10	30.38	4.84	36.16	5.86	42.11	6.93	45.00	7.50	47.89	8.07	53.84	9.22	56.89	9.54
	12	30.38	4.91	36.16	5.97	42.11	7.07	45.00	7.63	47.89	8.22	53.84	9.39	56.09	9.48

	14	30.38	5.01	36.16	6.08	42.11	7.20	45.00	7.79	47.89	8.37	53.84	9.58	55.44	9.43
	16	30.38	5.10	36.16	6.20	42.11	7.35	45.00	7.94	47.89	8.54	53.52	9.69	54.64	9.60
	18	30.38	5.20	36.16	6.31	42.11	7.48	45.00	8.09	47.89	8.71	52.88	10.01	54.00	10.09
	20	30.38	5.29	36.16	6.44	42.11	7.71	45.00	8.50	47.89	9.33	52.07	10.49	53.19	10.58
	21	30.38	5.35	36.16	6.50	42.11	7.99	45.00	8.80	47.89	9.66	51.75	10.73	52.88	10.83
	23	30.38	5.48	36.16	6.93	42.11	8.56	45.00	9.43	47.89	10.35	51.11	11.22	52.07	11.32
	25	30.38	5.84	36.16	7.41	42.11	9.16	45.00	10.11	47.89	11.09	50.31	11.72	51.43	11.81
	27	30.38	6.23	36.16	7.90	42.11	9.79	45.00	10.81	47.89	11.87	49.50	12.21	50.63	12.32
	29	30.38	6.63	36.16	8.43	42.11	10.45	45.00	11.55	47.73	12.60	48.86	12.72	49.98	12.81
	31	30.38	7.07	36.16	8.99	42.11	11.15	45.00	12.32	47.09	13.09	48.06	13.21	49.18	13.32
	33	30.38	7.50	36.16	9.58	42.11	11.88	45.00	13.15	46.29	13.59	47.41	13.70	48.54	13.83
	35	30.38	7.97	36.16	10.18	42.11	12.68	45.00	14.02	45.48	14.08	46.61	14.21	47.73	14.32
	37	30.38	8.48	36.16	10.85	42.11	13.51	44.19	14.51	44.84	14.59	45.96	14.72	46.93	14.83
	39	30.38	9.01	36.16	11.53	42.11	14.38	43.55	15.00	44.03	15.08	45.16	15.21	46.29	15.36
	42	30.38	9.57	36.16	12.09	42.11	15.08	42.65	15.14	43.58	15.39	44.12	15.57	45.39	15.78
	44	30.38	10.13	36.16	12.65	42.11	15.28	41.75	15.42	43.18	15.53	45.16	15.77	44.23	15.92
	46	30.38	10.69	36.16	13.21	42.11	15.60	40.85	15.56	43.13	15.95	43.36	16.05	43.59	16.20
90%	10	27.32	4.33	32.63	5.21	37.93	6.16	40.50	6.65	43.07	7.14	48.37	8.16	53.68	9.20
	12	27.32	4.40	32.63	5.31	37.93	6.27	40.50	6.76	43.07	7.27	48.37	8.31	53.68	9.37
	14	27.32	4.48	32.63	5.40	37.93	6.39	40.50	6.90	43.07	7.41	48.37	8.46	53.68	9.54
	16	27.32	4.55	32.63	5.50	37.93	6.52	40.50	7.03	43.07	7.56	48.37	8.63	53.52	9.71
	18	27.32	4.63	32.63	5.61	37.93	6.63	40.50	7.16	43.07	7.71	48.37	8.80	52.88	10.01
	20	27.32	4.72	32.63	5.74	37.93	6.76	40.50	7.31	43.07	7.99	48.37	9.47	52.07	10.49
	21	27.32	4.76	32.63	5.78	37.93	6.88	40.50	7.56	43.07	8.28	48.37	9.81	51.75	10.73
	23	27.32	4.86	32.63	6.01	37.93	7.37	40.50	8.11	43.07	8.88	48.37	10.52	50.94	11.22
	25	27.32	5.12	32.63	6.42	37.93	7.88	40.50	8.67	43.07	9.48	48.37	11.26	50.31	11.71
	27	27.32	5.44	32.63	6.84	37.93	8.41	40.50	9.26	43.07	10.15	48.37	12.05	49.50	12.21
	29	27.32	5.80	32.63	7.29	37.93	8.97	40.50	9.88	43.07	10.85	47.89	12.60	48.86	12.70
	31	27.32	6.16	32.63	7.77	37.93	9.56	40.50	10.54	43.07	11.56	47.09	13.09	48.05	13.21
	33	27.32	6.54	32.63	8.26	37.93	10.20	40.50	11.24	43.07	12.34	46.45	13.60	47.41	13.70
	35	27.32	6.95	32.63	8.79	37.93	10.86	40.50	11.98	43.07	13.15	45.64	14.10	46.61	14.21
	37	27.32	7.37	32.63	9.33	37.93	11.56	40.50	12.75	43.07	14.02	44.84	14.59	45.96	14.70
	39	27.32	7.82	32.63	9.94	37.93	12.30	40.50	13.59	43.07	14.93	44.20	15.10	45.16	15.21
	42	27.32	8.18	32.63	10.54	37.93	12.90	40.50	14.06	43.07	15.05	43.79	15.61	44.76	15.69
	44	27.32	8.78	32.63	11.14	37.93	13.50	40.50	14.54	43.07	15.63	43.54	15.76	44.19	15.93
	46	27.32	9.26	32.63	11.62	37.93	13.98	40.50	15.02	43.07	15.90	43.30	15.94	43.40	16.11
80%	10	24.27	3.84	28.93	4.59	33.59	5.40	36.00	5.82	38.41	6.24	43.07	7.12	47.73	8.03
	12	24.27	3.89	28.93	4.67	33.59	5.50	36.00	5.93	38.41	6.37	43.07	7.26	47.73	8.18
	14	24.27	3.97	28.93	4.76	33.59	5.59	36.00	6.03	38.41	6.48	43.07	7.39	47.73	8.33
	16	24.27	4.02	28.93	4.84	33.59	5.71	36.00	6.14	38.41	6.59	43.07	7.54	47.73	8.48
	18	24.27	4.10	28.93	4.93	33.59	5.82	36.00	6.27	38.41	6.73	43.07	7.69	47.73	8.65
	20	24.27	4.18	28.93	5.03	33.59	5.93	36.00	6.39	38.41	6.86	43.07	7.97	47.73	9.26
	21	24.27	4.21	28.93	5.06	33.59	5.99	36.00	6.46	38.41	7.01	43.07	8.26	47.73	9.60
	23	24.27	4.29	28.93	5.18	33.59	6.27	36.00	6.88	38.41	7.50	43.07	8.84	47.73	10.30
	25	24.27	4.42	28.93	5.50	33.59	6.71	36.00	7.35	38.41	8.01	43.07	9.47	47.73	11.02
	27	24.27	4.71	28.93	5.86	33.59	7.14	36.00	7.84	38.41	8.56	43.07	10.11	47.73	11.79
	29	24.27	5.01	28.93	6.24	33.59	7.62	36.00	8.35	38.41	9.15	43.07	10.79	47.73	12.60
	31	24.27	5.31	28.93	6.63	33.59	8.11	36.00	8.90	38.41	9.75	43.07	11.53	46.93	13.10
	33	24.27	5.65	28.93	7.05	33.59	8.64	36.00	9.49	38.41	10.37	43.07	12.28	46.29	13.59
	35	24.27	5.99	28.93	7.50	33.59	9.18	36.00	10.09	38.41	11.05	43.07	13.10	45.48	14.08
	37	24.27	6.35	28.93	7.95	33.59	9.77	36.00	10.75	38.41	11.77	43.07	13.96	44.84	14.57
	39	24.27	6.73	28.93	8.48	33.59	10.39	36.00	11.43	38.41	12.53	43.07	14.87	44.04	15.08
	42	24.27	6.93	28.93	8.58	33.59	10.59	36.00	11.84	38.41	12.83	43.07	15.38	43.68	15.43
	44	24.27	7.23	28.93	8.69	33.59	10.80	36.00	12.04	38.41	13.03	43.07	15.48	43.32	15.58
	46	24.27	7.33	28.93	8.79	33.59	11.01	36.00	12.34	38.41	13.28	43.07	15.71	42.96	15.94
70%	10	21.22	3.38	25.39	4.01	29.41	4.67	31.50	5.03	33.59	5.39	37.61	6.12	41.78	6.88
	12	21.22	3.42	25.39	4.06	29.41	4.76	31.50	5.12	33.59	5.48	37.61	6.24	41.78	7.01
	14	21.22	3.48	25.39	4.14	29.41	4.84	31.50	5.20	33.59	5.57	37.61	6.35	41.78	7.14
	16	21.22	3.53	25.39	4.21	29.41	4.93	31.50	5.31	33.59	5.69	37.61	6.46	41.78	7.27
	18	21.22	3.59	25.39	4.29	29.41	5.03	31.50	5.40	33.59	5.78	37.61	6.59	41.78	7.43
	20	21.22	3.65	25.39	4.37	29.41	5.12	31.50	5.50	33.59	5.90	37.61	6.73	41.78	7.63
	21	21.22	3.68	25.39	4.40	29.41	5.16	31.50	5.56	33.59	5.95	37.61	6.82	41.78	7.90
	23	21.22	3.74	25.39	4.48	29.41	5.27	31.50	5.74	33.59	6.25	37.61	7.31	41.78	8.47
	25	21.22	3.82	25.39	4.67	29.41	5.61	31.50	6.14	33.59	6.67	37.61	7.82	41.78	9.05

	27	21.22	4.04	25.39	4.97	29.41	5.99	31.50	6.54	33.59	7.12	37.61	8.35	41.78	9.67
	29	21.22	4.29	25.39	5.27	29.41	6.37	31.50	6.97	33.59	7.58	37.61	8.90	41.78	10.34
	31	21.22	4.53	25.39	5.59	29.41	6.78	31.50	7.41	33.59	8.07	37.61	9.49	41.78	11.02
	33	21.22	4.82	25.39	5.95	29.41	7.22	31.50	7.88	33.59	8.60	37.61	10.11	41.78	11.75
	35	21.22	5.10	25.39	6.31	29.41	7.65	31.50	8.39	33.59	9.15	37.61	10.77	41.78	12.53
	37	21.22	5.39	25.39	6.69	29.41	8.14	31.50	8.90	33.59	9.73	37.61	11.47	41.78	13.34
	39	21.22	5.71	25.39	7.09	29.41	8.64	31.50	9.47	33.59	10.34	37.61	12.19	41.78	14.21
	42	21.22	6.04	25.39	7.42	29.41	8.97	31.50	9.89	33.59	10.76	37.61	12.86	41.78	15.05
	44	21.22	6.44	25.39	7.84	29.41	9.25	31.50	10.31	33.59	11.17	37.61	13.45	41.78	15.55
	46	21.22	6.73	25.39	8.18	29.41	9.64	31.50	10.64	33.59	11.51	37.61	13.87	41.78	15.89
60%	10	18.16	2.93	21.70	3.44	25.23	3.99	27.00	4.27	28.77	4.55	32.30	5.16	35.84	5.78
	12	18.16	2.99	21.70	3.49	25.23	4.06	27.00	4.35	28.77	4.63	32.30	5.25	35.84	5.88
	14	18.16	3.02	21.70	3.55	25.23	4.12	27.00	4.42	28.77	4.72	32.30	5.35	35.84	5.99
	16	18.16	3.06	21.70	3.61	25.23	4.19	27.00	4.50	28.77	4.80	32.30	5.44	35.84	6.10
	18	18.16	3.12	21.70	3.66	25.23	4.27	27.00	4.57	28.77	4.89	32.30	5.54	35.84	6.22
	20	18.16	3.15	21.70	3.74	25.23	4.35	27.00	4.67	28.77	4.99	32.30	5.65	35.84	6.35
	21	18.16	3.19	21.70	3.76	25.23	4.38	27.00	4.70	28.77	5.03	32.30	5.71	35.84	6.40
	23	18.16	3.23	21.70	3.84	25.23	4.46	27.00	4.80	28.77	5.12	32.30	5.93	35.84	6.82
	25	18.16	3.29	21.70	3.89	25.23	4.63	27.00	5.03	28.77	5.44	32.30	6.33	35.84	7.27
	27	18.16	3.42	21.70	4.14	25.23	4.93	27.00	5.37	28.77	5.80	32.30	6.74	35.84	7.76
	29	18.16	3.61	21.70	4.38	25.23	5.25	27.00	5.71	28.77	6.18	32.30	7.20	35.84	8.29
	31	18.16	3.84	21.70	4.65	25.23	5.57	27.00	6.06	28.77	6.57	32.30	7.65	35.84	8.82
	33	18.16	4.04	21.70	4.93	25.23	5.91	27.00	6.44	28.77	6.99	32.30	8.14	35.84	9.41
	35	18.16	4.29	21.70	5.23	25.23	6.27	27.00	6.84	28.77	7.42	32.30	8.67	35.84	10.01
	37	18.16	4.53	21.70	5.54	25.23	6.65	27.00	7.25	28.77	7.88	32.30	9.22	35.84	10.66
	39	18.16	4.78	21.70	5.86	25.23	7.05	27.00	7.69	28.77	8.37	32.30	9.79	35.84	11.34
	42	18.16	4.98	21.70	6.19	25.23	7.39	27.00	8.10	28.77	8.78	32.30	10.40	35.84	12.02
	44	18.16	5.19	21.70	6.54	25.23	7.73	27.00	8.37	28.77	9.18	32.30	10.96	35.84	12.70
	46	18.16	5.46	21.70	6.84	25.23	8.00	27.00	8.71	28.77	9.67	32.30	11.36	35.84	13.39
50%	10	15.19	2.53	18.16	2.93	21.05	3.34	22.50	3.57	23.95	3.78	26.84	4.25	29.89	4.74
	12	15.19	2.55	18.16	2.97	21.05	3.40	22.50	3.61	23.95	3.85	26.84	4.33	29.89	4.82
	14	15.19	2.59	18.16	3.00	21.05	3.44	22.50	3.68	23.95	3.91	26.84	4.40	29.89	4.91
	16	15.19	2.63	18.16	3.04	21.05	3.50	22.50	3.74	23.95	3.97	26.84	4.48	29.89	4.99
	18	15.19	2.66	18.16	3.10	21.05	3.55	22.50	3.80	23.95	4.04	26.84	4.55	29.89	5.08
	20	15.19	2.70	18.16	3.14	21.05	3.61	22.50	3.85	23.95	4.12	26.84	4.63	29.89	5.18
	21	15.19	2.72	18.16	3.17	21.05	3.65	22.50	3.89	23.95	4.16	26.84	4.69	29.89	5.23
	23	15.19	2.76	18.16	3.21	21.05	3.70	22.50	3.97	23.95	4.23	26.84	4.76	29.89	5.35
	25	15.19	2.80	18.16	3.27	21.05	3.78	22.50	4.04	23.95	4.36	26.84	5.01	29.89	5.71
	27	15.19	2.85	18.16	3.40	21.05	3.99	22.50	4.31	23.95	4.63	26.84	5.33	29.89	6.08
	29	15.19	3.00	18.16	3.59	21.05	4.23	22.50	4.57	23.95	4.93	26.84	5.67	29.89	6.48
	31	15.19	3.17	18.16	3.80	21.05	4.48	22.50	4.86	23.95	5.23	26.84	6.03	29.89	6.90
	33	15.19	3.36	18.16	4.02	21.05	4.76	22.50	5.14	23.95	5.55	26.84	6.40	29.89	7.33
	35	15.19	3.55	18.16	4.25	21.05	5.03	22.50	5.44	23.95	5.88	26.84	6.80	29.89	7.78
	37	15.19	3.74	18.16	4.50	21.05	5.33	22.50	5.76	23.95	6.23	26.84	7.22	29.89	8.27
	39	15.19	3.95	18.16	4.74	21.05	5.63	22.50	6.10	23.95	6.61	26.84	7.65	29.89	8.79
	42	15.19	4.17	18.16	5.01	21.05	5.90	22.50	6.48	23.95	6.99	26.84	8.20	29.89	9.33
	44	15.19	4.38	18.16	5.29	21.05	6.17	22.50	6.86	23.95	7.16	26.84	8.74	29.89	9.87
	46	15.19	4.58	18.16	5.56	21.05	6.45	22.50	7.19	23.95	7.37	26.84	9.28	29.89	10.42

Note:

1, is shown as reference

2, The above table shows the average value of conditions may operate

3, It is recommended to connect less than 130%

16HP heating mode

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	kW
130%	-19.8	-20	32.38	9.50	32.22	10.00	32.07	10.59	32.07	10.95	31.91	11.23	31.91	11.90
	-18.8	-19	32.86	9.61	32.70	10.15	32.70	10.77	32.54	11.08	32.54	11.40	32.38	12.05
	-16.7	-17	34.13	9.95	33.97	10.52	33.81	11.17	33.81	11.47	33.81	11.78	33.65	12.39
	-13.7	-15	35.55	10.38	35.40	10.93	35.24	11.58	35.24	11.86	35.08	12.17	35.08	12.77
	-11.8	-13	36.99	10.76	36.99	11.38	36.83	11.98	36.67	12.27	36.67	12.56	36.51	13.13
	-9.8	-11	38.73	11.27	38.57	11.86	38.41	12.41	38.41	12.68	38.41	12.96	38.25	13.50
	-9.5	-10	39.68	11.45	39.53	12.09	39.37	12.61	39.37	12.89	39.21	13.14	39.21	13.67
	-8.5	-9.1	40.47	11.68	40.32	12.27	40.32	12.80	40.16	13.06	40.16	13.31	40.00	13.84
	-7	-7.6	41.91	11.99	41.91	12.61	41.75	13.11	41.75	13.36	41.59	13.60	41.43	14.12
	-5	-5.6	44.13	12.56	43.97	13.04	43.81	13.52	43.81	13.76	43.65	13.98	43.65	14.46
	-3	-3.7	46.19	12.97	46.03	13.43	46.03	13.88	45.87	14.12	45.87	14.34	45.71	14.78
	0	-0.7	49.84	13.60	49.84	14.03	49.68	14.44	49.68	14.59	49.52	14.87	49.52	15.27
	3	2.2	53.81	14.17	53.65	14.56	53.49	14.95	53.49	15.14	53.49	15.34	53.33	15.72
	5	4.1	56.51	14.52	56.35	14.90	56.35	15.26	56.19	15.44	56.19	15.63	56.03	15.99
	7	6	59.36	14.87	59.21	15.21	59.21	15.56	59.05	15.74	59.05	15.91	56.67	15.27
	9	7.9	62.38	15.17	62.22	15.51	62.22	15.84	62.06	16.01	60.79	15.67	56.67	14.35
	11	9.8	65.55	15.48	65.40	15.79	65.08	15.99	62.86	15.36	60.79	14.73	56.67	13.52
	13	11.8	69.04	15.77	68.89	16.08	65.08	14.99	62.86	14.39	60.79	13.83	56.67	12.68
	15	13.7	72.38	16.04	69.20	15.22	65.08	14.12	62.86	13.57	60.79	13.02	56.67	11.97
120%	-19.8	-20	32.22	9.72	32.06	10.21	31.90	10.79	31.90	11.07	31.90	11.36	31.75	11.94
	-18.8	-19	32.70	9.82	32.54	10.39	32.54	10.96	32.38	11.23	32.38	11.52	32.22	12.09
	-16.7	-17	33.97	10.21	33.81	10.76	33.60	11.30	33.65	11.57	33.65	11.85	33.49	12.38
	-13.7	-15	35.40	10.62	35.24	11.14	35.08	11.65	35.08	11.93	35.08	12.19	34.92	12.71
	-11.8	-13	36.83	11.02	36.83	11.52	36.67	12.03	36.67	12.28	36.51	12.53	36.51	13.03
	-9.8	-11	38.57	11.44	38.41	11.91	38.41	12.40	38.25	12.64	38.25	12.87	38.10	13.35
	-9.5	-10	39.53	11.65	39.37	12.12	39.21	12.57	39.21	12.82	39.21	13.05	39.05	13.51
	-8.5	-9.1	40.32	11.83	40.16	12.28	40.16	12.74	40.00	12.96	40.00	13.21	39.84	13.66
	-7	-7.6	41.75	12.14	41.75	12.57	41.59	13.01	41.59	13.24	41.43	13.45	41.43	13.89
	-5	-5.6	43.97	12.53	43.81	12.95	43.65	13.37	43.65	13.58	43.65	13.79	43.50	14.19
	-3	-3.7	46.04	12.90	46.04	13.30	45.88	13.69	45.88	13.89	45.72	14.10	45.72	14.49
	0	-0.7	49.68	13.45	49.68	13.82	49.53	14.18	49.53	14.37	49.37	14.55	49.37	14.92
	3	2.2	53.65	13.95	53.49	14.29	53.49	14.63	53.33	14.81	53.33	14.97	52.22	14.89
	5	4.1	56.35	14.26	56.19	14.58	56.19	14.91	56.03	15.07	56.03	15.23	52.22	13.98
	7	6	59.21	14.55	59.21	14.86	59.05	15.17	58.10	14.95	56.19	14.34	52.22	13.16
	9	7.9	62.23	14.84	62.07	15.13	60.00	14.63	58.10	14.05	56.19	13.48	52.22	12.38
	11	9.8	65.40	15.10	63.81	14.84	60.00	13.76	58.10	13.22	56.19	12.69	52.22	11.67
	13	11.8	67.78	14.95	63.81	13.92	60.00	12.90	58.10	12.41	56.19	11.93	52.22	10.97
	15	13.7	67.78	14.08	63.81	13.11	60.00	12.17	58.10	11.70	56.19	11.25	52.22	10.36
110%	-19.8	-20	32.06	10.76	31.91	11.29	31.75	11.84	31.75	12.11	31.76	12.38	31.59	12.92
	-18.8	-19	32.54	10.93	32.38	11.46	32.38	11.99	32.38	12.26	32.22	12.52	32.22	13.06
	-16.7	-17	33.81	11.29	33.65	11.81	34.12	12.33	33.49	12.57	33.49	12.84	33.33	13.34
	-13.7	-15	35.24	11.68	35.09	12.18	34.92	12.49	34.92	12.91	34.92	13.16	34.76	13.64
	-11.8	-13	36.67	12.08	36.67	12.54	36.51	13.01	36.51	13.24	36.35	13.47	36.35	13.95
	-9.8	-11	38.41	12.46	38.25	12.91	38.25	13.36	38.09	13.59	38.09	13.80	38.09	14.25
	-9.5	-10	39.37	12.66	39.21	13.09	39.05	13.54	39.05	13.75	39.05	13.97	38.89	14.24
	-8.5	-9.1	40.16	12.82	40.00	13.26	40.00	13.69	39.84	13.90	39.84	14.12	39.84	14.37
	-7	-7.6	41.59	13.12	41.59	13.52	41.43	13.94	41.43	14.15	41.43	14.35	41.27	14.40
	-5	-5.6	43.81	13.49	43.65	13.89	43.49	14.27	43.49	14.47	43.49	14.67	43.33	14.56
	-3	-3.7	45.88	13.84	45.88	14.20	45.72	14.58	45.72	14.77	45.56	14.95	45.56	14.70
	0	-0.7	49.52	14.35	49.52	14.70	49.37	15.05	49.37	15.22	49.37	15.40	47.94	15.10
	3	2.2	53.49	14.83	53.33	15.15	53.33	15.46	53.17	15.61	51.43	14.98	47.94	13.74
	5	4.1	56.19	15.12	56.19	15.43	55.08	15.28	53.17	14.67	51.43	14.09	47.94	12.92
	7	6	59.05	15.40	58.57	15.50	55.08	14.35	53.17	13.79	51.43	13.24	47.94	12.16
	9	7.9	62.06	15.65	58.57	14.57	55.08	13.50	53.17	12.97	51.43	12.46	47.94	11.46
	11	9.8	62.06	14.72	58.57	13.70	55.08	12.71	53.17	12.23	51.43	11.74	47.94	10.81
	13	11.8	62.06	13.80	58.57	12.86	55.08	11.94	53.17	11.49	51.43	11.05	47.94	10.18
	15	13.7	62.06	12.26	58.57	12.13	55.08	11.28	53.17	10.85	51.43	10.45	47.94	9.63

100%	-19.8	-20	31.91	11.63	31.75	12.11	31.75	12.61	31.59	12.86	31.59	13.09	31.43	13.59
	-18.8	-19	32.38	11.78	32.38	12.26	32.22	12.74	32.22	12.99	32.07	13.24	32.07	13.72
	-16.7	-17	33.65	12.11	33.49	12.57	33.49	13.04	33.34	13.27	33.34	13.50	33.34	13.97
	-13.7	-15	35.08	12.46	34.92	12.91	34.76	13.36	34.76	13.59	34.76	13.80	34.61	14.25
	-11.8	-13	36.51	12.82	36.51	13.24	36.35	13.67	36.35	13.89	36.35	14.10	36.19	14.53
	-9.8	-11	38.26	13.17	38.10	13.59	38.10	13.99	38.10	14.20	37.94	14.40	37.94	14.80
	-9.5	-10	39.21	13.36	39.05	13.75	39.05	14.15	38.89	14.35	38.89	14.55	38.73	14.95
	-8.5	-9.1	40.00	13.50	39.84	13.90	39.84	14.29	39.84	14.48	39.69	14.68	39.69	15.07
	-7	-7.6	41.43	13.77	41.43	14.15	41.27	14.52	41.27	14.72	41.27	14.90	41.11	15.28
	-5	-5.6	43.65	14.12	43.49	14.47	43.49	14.83	43.34	15.00	43.34	15.18	43.18	15.55
	-3	-3.7	45.72	14.43	45.72	14.07	45.56	15.12	45.56	15.28	45.56	15.45	43.65	14.80
	0	-0.7	49.37	14.90	49.37	14.52	49.21	15.53	48.42	15.28	46.83	14.65	43.65	13.44
	3	2.2	53.34	15.33	53.18	15.26	50.00	14.45	48.42	13.89	46.83	13.34	43.65	12.24
	5	4.1	56.03	15.61	53.18	14.67	50.00	13.59	48.42	13.07	46.83	12.56	43.65	11.54
	7	6	56.35	14.82	53.18	13.79	50.00	12.79	48.42	12.31	46.83	11.83	43.65	10.88
	9	7.9	56.35	13.92	53.18	12.97	50.00	12.04	48.42	11.44	46.83	11.15	43.65	10.27
	11	9.8	56.35	13.11	53.18	12.22	50.00	11.36	48.42	10.93	46.83	10.51	43.65	9.70
	13	11.8	56.35	12.31	53.18	11.49	50.00	10.70	48.42	10.30	46.83	9.92	43.65	9.15
	15	13.7	56.35	11.61	53.18	10.85	50.00	10.10	48.42	9.73	46.83	9.37	43.65	8.67
90%	-19.8	-20	31.69	12.49	31.53	12.92	31.53	13.37	31.37	13.59	31.37	13.82	31.37	14.25
	-18.8	-19	32.17	12.62	32.17	13.07	32.01	13.50	32.01	13.72	32.01	13.94	31.85	14.37
	-16.7	-17	33.44	12.94	33.27	13.36	33.27	13.77	33.27	13.99	33.12	14.19	33.12	14.60
	-13.7	-15	34.86	13.25	34.70	13.65	34.70	14.05	34.54	14.25	34.54	14.45	34.54	14.85
	-11.8	-13	36.28	13.57	36.28	13.95	36.13	14.33	36.13	14.53	36.13	14.72	35.97	15.10
	-9.8	-11	38.03	13.89	38.03	14.25	37.87	14.62	37.87	14.80	37.87	15.00	37.71	15.36
	-9.5	-10	38.98	14.05	38.82	14.42	38.82	14.77	38.66	14.95	38.66	15.13	38.66	15.48
	-8.5	-9.1	39.77	14.20	39.77	14.55	39.61	14.90	39.61	15.07	39.61	15.25	39.14	15.40
	-7	-7.6	41.20	14.43	41.20	14.77	41.04	15.11	41.04	15.28	41.04	15.45	39.14	14.70
	-5	-5.6	43.42	14.75	43.26	15.07	43.26	15.38	43.10	15.55	41.99	15.07	39.14	13.82
	-3	-3.7	45.48	15.03	45.48	15.33	45.00	15.40	43.42	14.78	41.99	14.19	39.14	13.02
	0	-0.7	49.28	15.46	47.85	15.08	45.00	13.97	43.42	13.42	41.99	12.89	39.14	11.84
	3	2.2	50.71	14.73	47.85	13.72	45.00	12.72	43.42	12.24	41.99	11.76	39.14	10.83
	5	4.1	50.71	13.85	47.85	12.91	45.00	11.99	43.42	11.53	41.99	11.10	39.14	10.22
	7	6	50.71	13.02	47.85	12.16	45.00	11.29	43.42	10.88	41.99	10.46	39.14	9.65
	9	7.9	50.71	12.28	47.85	11.44	45.00	10.65	43.42	10.26	41.99	9.88	39.14	9.12
	11	9.8	50.71	11.56	47.85	10.80	45.00	10.07	43.42	9.70	41.99	9.34	39.14	8.64
	13	11.8	50.71	10.88	47.85	10.18	45.00	9.48	43.42	9.15	41.99	8.82	39.14	8.16
	15	13.7	50.71	10.28	47.85	9.62	45.00	8.99	43.42	8.67	41.99	8.35	39.14	7.74
80%	-19.8	-20	31.59	13.35	31.43	13.74	31.43	14.14	31.43	14.33	31.27	14.53	31.27	14.92
	-18.8	-19	32.06	13.47	32.06	13.87	31.90	14.25	31.90	14.45	31.90	14.63	31.75	15.03
	-16.7	-17	33.33	13.75	33.18	14.12	33.18	14.50	33.18	14.68	33.18	14.87	33.02	15.23
	-13.7	-15	34.76	14.04	34.60	14.38	34.60	14.75	34.60	14.92	34.44	15.10	34.44	15.46
	-11.8	-13	36.19	14.32	36.19	14.67	36.03	15.00	36.03	15.16	36.03	15.35	34.92	14.93
	-9.8	-11	37.94	14.60	37.94	14.93	37.78	15.26	37.78	15.41	37.46	15.38	34.92	14.10
	-9.5	-10	38.89	14.75	38.72	15.06	38.73	15.38	38.73	15.55	37.46	14.93	34.92	13.69
	-8.5	-9.1	39.68	14.88	36.88	15.20	39.52	15.50	38.73	15.15	37.46	14.53	34.92	13.32
	-7	-7.6	41.11	15.10	41.11	15.40	40.00	15.06	38.73	14.47	37.46	13.89	34.92	12.74
	-5	-5.6	43.33	15.36	42.54	15.28	40.00	14.15	38.73	13.60	37.46	13.05	34.92	11.99
	-3	-3.7	45.08	15.45	42.54	14.38	40.00	13.32	38.73	12.82	37.46	12.31	34.92	11.33
	0	-0.7	45.08	14.02	42.54	13.05	40.00	12.13	38.73	11.68	37.46	11.21	34.92	10.33
	3	2.2	45.08	12.77	42.54	11.91	40.00	11.08	38.73	10.66	37.46	10.26	34.92	9.47
	5	4.1	45.08	12.03	42.54	11.23	40.00	10.45	38.73	10.07	37.46	9.70	34.92	8.95
	7	6	45.08	11.33	42.54	10.60	40.00	9.87	38.73	9.52	37.46	9.17	34.92	8.47
	9	7.9	45.08	10.70	42.54	10.00	40.00	9.32	38.73	8.99	37.46	8.67	34.92	8.02
	11	9.8	45.08	10.10	42.54	9.45	40.00	8.82	38.73	8.50	37.46	8.20	34.92	7.61
	13	11.8	45.08	9.52	42.54	8.92	40.00	8.34	38.73	8.04	37.46	7.76	34.92	7.19
	15	13.7	45.08	9.00	42.54	8.45	40.00	7.91	38.73	7.62	37.46	7.36	34.92	6.84
70%	-19.8	-20	31.36	14.22	31.20	14.55	31.20	14.90	31.20	15.06	31.20	15.25	30.41	15.08
	-18.8	-19	31.83	14.33	31.83	14.67	31.68	15.00	31.68	15.16	31.68	15.35	30.41	14.77
	-16.7	-17	33.10	14.57	33.10	14.90	32.94	15.21	32.94	15.38	32.62	14.60	30.41	14.09
	-13.7	-15	34.52	14.82	34.37	15.13	34.37	15.45	33.73	15.21	32.62	13.84	30.41	13.39

	-11.8	-13	35.95	15.06	35.95	15.36	35.00	15.00	33.73	14.42	32.62	13.70	30.41	12.69
	-9.8	-11	37.69	15.31	37.22	15.30	35.00	14.17	33.73	13.62	32.62	13.70	30.41	12.01
	-9.5	-10	38.64	15.45	37.22	14.85	35.00	13.75	33.73	13.22	32.62	13.07	30.41	11.68
	-8.5	-9.1	39.43	15.53	37.22	14.45	35.00	13.39	33.73	12.87	32.62	12.71	30.41	11.38
	-7	-7.6	39.43	14.83	37.22	13.80	35.00	12.81	33.73	12.32	32.62	12.37	30.41	10.90
	-5	-5.6	39.43	13.94	37.22	12.99	35.00	12.06	33.73	11.59	32.62	11.84	30.41	10.28
	-3	-3.7	39.43	13.12	37.22	12.24	35.00	11.38	33.73	10.95	32.62	10.53	30.41	9.72
	0	-0.7	39.43	11.94	37.22	11.16	35.00	10.38	33.73	10.00	32.62	9.63	30.41	8.90
	3	2.2	39.43	10.91	37.22	10.22	35.00	9.52	33.73	9.17	32.62	8.84	30.41	8.17
	5	4.1	39.43	10.30	37.22	9.63	35.00	9.00	33.73	8.67	32.62	8.35	30.41	7.74
	7	6	39.43	9.73	37.22	9.12	35.00	8.50	33.73	8.20	32.62	7.92	30.41	7.34
	9	7.9	39.43	9.20	37.22	8.62	35.00	8.06	33.73	7.77	32.62	7.51	30.41	6.96
	11	9.8	39.43	8.70	37.22	8.16	35.00	7.64	33.73	7.37	32.62	7.13	30.41	6.61
	13	11.8	39.43	8.22	37.22	7.72	35.00	7.23	33.73	6.99	32.62	6.74	30.41	6.28
	15	13.7	39.43	7.79	37.22	7.32	35.00	6.86	33.73	6.64	32.62	6.41	30.41	5.98
60%	-19.8	-20	31.27	15.08	31.11	15.36	30.00	14.78	29.05	14.20	28.10	13.64	26.19	12.51
	-18.8	-19	31.75	15.18	31.75	15.46	30.00	14.47	29.05	13.90	28.10	13.34	26.19	12.24
	-16.7	-17	33.02	15.38	31.91	14.90	30.00	13.80	29.05	13.27	28.10	12.74	26.19	11.71
	-13.7	-15	33.81	15.21	31.91	14.15	30.00	13.12	29.05	12.62	28.10	12.12	26.19	11.14
	-11.8	-13	33.81	14.40	31.91	13.40	30.00	12.44	29.05	11.98	28.10	11.51	26.19	10.65
	-9.8	-11	33.81	13.60	31.91	12.67	30.00	11.78	29.05	11.33	28.10	10.90	26.19	10.05
	-9.5	-10	33.81	13.22	31.91	12.32	30.00	11.44	29.05	11.03	28.10	10.60	26.19	9.77
	-8.5	-9.1	33.81	12.87	31.91	12.01	30.00	11.16	29.05	10.75	28.10	10.33	26.19	9.53
	-7	-7.6	33.81	12.31	31.91	11.49	30.00	10.68	29.05	10.30	28.10	9.90	26.19	9.15
	-5	-5.6	33.81	11.59	31.91	10.83	30.00	10.08	29.05	9.72	28.10	9.35	26.19	8.65
	-3	-3.7	33.81	10.95	31.91	10.23	30.00	9.53	29.05	9.20	28.10	8.85	26.19	8.19
	0	-0.7	33.81	10.00	31.91	9.37	30.00	8.74	29.05	8.44	28.10	8.12	26.19	7.52
	3	2.2	33.81	9.17	31.91	8.60	30.00	8.04	29.05	7.76	28.10	7.49	26.19	6.94
	5	4.1	33.81	8.67	31.91	8.14	30.00	7.61	29.05	7.36	28.10	7.09	26.19	6.59
	7	6	33.81	8.20	31.91	7.71	30.00	7.21	29.05	6.98	28.10	6.74	26.19	6.26
	9	7.9	33.81	7.77	31.91	7.31	30.00	6.84	29.05	6.63	28.10	6.39	26.19	5.96
	11	9.8	33.81	7.37	31.91	6.94	30.00	6.51	29.05	6.30	28.10	6.08	26.19	5.68
	13	11.8	33.81	6.98	31.91	6.58	30.00	6.18	29.05	5.98	28.10	5.78	26.19	5.40
	15	13.7	33.81	6.64	31.91	6.25	30.00	5.88	29.05	5.70	28.10	5.51	26.19	5.15
50%	-19.8	-20	28.17	13.72	26.58	12.77	25.00	11.86	24.05	11.43	23.26	10.98	21.68	10.12
	-18.8	-19	28.17	13.42	26.58	12.51	25.00	11.63	24.05	11.18	23.26	10.75	21.68	9.92
	-16.7	-17	28.17	12.81	26.58	11.94	25.00	11.11	24.05	10.70	23.26	10.30	21.68	9.50
	-13.7	-15	28.17	12.19	26.58	11.38	25.00	10.58	24.05	10.20	23.26	9.82	21.68	9.07
	-11.8	-13	28.17	11.58	26.58	10.81	25.00	10.07	24.05	9.70	23.26	9.33	21.68	8.64
	-9.8	-11	28.17	10.96	26.58	10.25	25.00	9.55	24.05	9.20	23.26	8.87	21.68	8.20
	-9.5	-10	28.17	10.66	26.58	9.97	25.00	9.30	24.05	8.97	23.26	8.64	21.68	7.99
	-8.5	-9.1	28.17	10.40	26.58	9.73	25.00	9.07	24.05	8.75	23.26	8.44	21.68	7.81
	-7	-7.6	28.17	9.97	26.58	9.33	25.00	8.70	24.05	8.40	23.26	8.11	21.68	7.51
	-5	-5.6	28.17	9.40	26.58	8.82	25.00	8.24	24.05	7.96	23.26	7.67	21.68	7.11
	-3	-3.7	28.17	8.90	26.58	8.35	25.00	7.81	24.05	7.54	23.26	7.27	21.68	6.76
	0	-0.7	28.17	8.17	26.58	7.67	25.00	7.19	24.05	6.94	23.26	6.71	21.68	6.25
	3	2.2	28.17	7.52	26.58	7.08	25.00	6.63	24.05	6.41	23.26	6.20	21.68	5.78
	5	4.1	28.17	7.14	26.58	6.71	25.00	6.30	24.05	6.10	23.26	5.90	21.68	5.50
	7	6	28.17	6.78	26.58	6.38	25.00	6.00	24.05	5.80	23.26	5.61	21.68	5.25
	9	7.9	28.17	6.43	26.58	6.06	25.00	5.70	24.05	5.53	23.26	5.35	21.68	5.00
	11	9.8	28.17	6.11	26.58	5.76	25.00	5.43	24.05	5.27	23.26	5.10	21.68	4.77
	13	11.8	28.17	5.81	26.58	5.48	25.00	5.17	24.05	5.02	23.26	4.85	21.68	4.55
	15	13.7	28.17	5.53	26.58	5.23	25.00	4.93	24.05	4.78	23.26	4.63	21.68	4.35

Note:

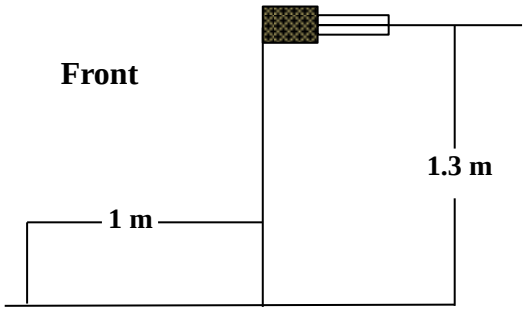
1, is shown as reference

2, The above table shows the average value of conditions may operate

3, It is recommended to connect less than 130%

8. Sound Levels

Standard of testing



Test value

Outdoor unit (HP)	Noise level (dB)
8	57
10	57
12	58
14	60
16	60

Sound Curve:

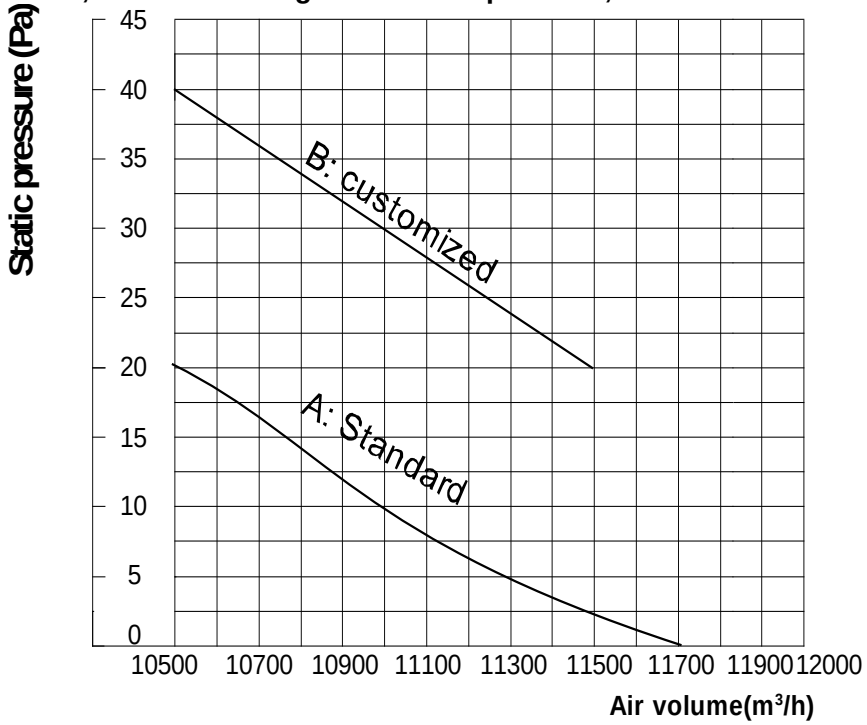
8,10 HP

12 HP

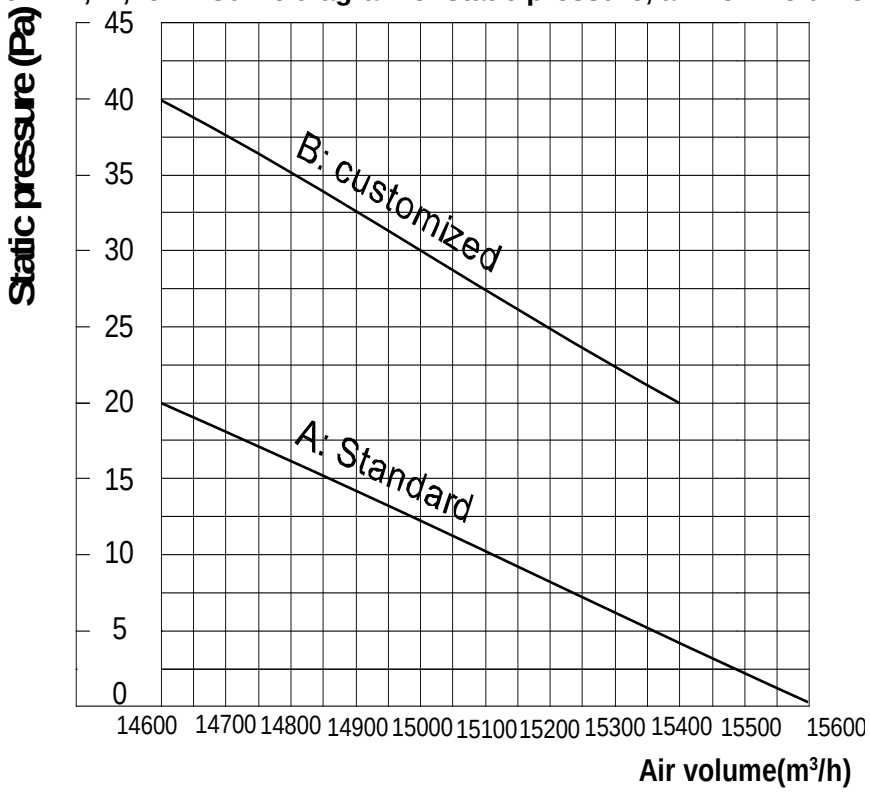
14,16 HP

9. Outdoor Fan Performance

9.1 8,10HP Curve diagram of static pressure, air flow volume:



9.2 12,14,16HP Curve diagram of static pressure, air flow volume:



10. Accessories

10.1 Standard accessories

No	Name	Quantity	Purpose
1	Installation manual of outdoor unit	1	/
2	Operation manual of outdoor unit	1	It's necessary general accessories
3	Operation manual of indoor unit	1	It's necessary general accessories
4	Screw bag	1	/
5	Straight screwdriver	1	Dialing
6	Gauge joint	1	For airtight test
7	90° elbow	2	Pipe connecting

10.2 Optional accessories

Optional accessories	Model name	Packing Size (mm)	Gross/Net Weight (kg)	Function
Branch Joint of outdoor side	FQZHW-02N1D	255×150×185	1.5/1.2	Balance the resistance between each outdoor unit
	FQZHW-03N1D	345×160×285	3.4/2.4	
	FQZHW-04N1D	475×165×300	4.8/3.6	
Branch Joint of indoor side	FQZHN-01D	290×105×100	0.4/0.3	Distribute the refrigerant to indoor units
	FQZHN-02D	290×105×100	0.6/0.4	
	FQZHN-03D	310×130×125	0.9/0.6	
	FQZHN-04D	350×170×180	1.5/1.1	
	FQZHN-05D	365×195×215	1.9/1.4	
	FQZHN-06D	390×230×255	3.1/2.5	

Optional accessories	Model name	Function
Outdoor controller	TMD-CCM02/E	Monitor the outdoor operating parameter
Three phase electricity power protector	HWUA/DPB71CM48	To stop the air-conditioner running in case of bad power supply such as Phase Error, Over-voltage, Under-voltage lose, phase lost and phase sequence inverse. Thus to protect the equipment.
Digital ammeter (WHM)	DTS634/DT636	Electricity Charge monitor

11. Functional Parts And Safety Devices

Item	Symbol	Name		TMVV4N252(8)	TMVV4N280(10)	TMVV4N335(12)
Compressor	Inverter	Inverter compressor		E405DHD-36D2Y	E405DHD-36D2Y	E405DHD-36D2Y
	FIX1	Fixed speed compressor		E605DH-59D2Y	E655DH-59D2Y	E655DH-59D2Y
	Compressor Safety OLP	Open temperature		160±5℃		
		Starting current		--/62A	--/68A	--/68A
	CCH	Crank case heater		DJRD-520A-1500-27.6W *2		
Motor and Security Devices	Motor	Fan motor	Model	WZDK560-38G	WZDK560-38G	WZDK450-38G*2
			Output power	420W	420W	360W*2
		Safety thermostat	On	115℃		
			Off	/		
	HP	High pressure switch		OFF：44（±1）kg/cm^2/ON：32（±1）kg/cm^2		
	LP	Low pressure switch		OFF：0.3（±1）kg/cm^2/ON：1.0（±1）kg/cm^2		
Temperature sensor	T3,T4	Temperature sensor (condenser outlet/ambient temperature)		25℃=10KΩ		
	Discharge thermostat	Thermostat (Inverter/Fixed discharge)		BW130℃ ON:130℃ OFF:85℃		
Pressure sensor	HPSH	High pressure sensor (discharge)		Model: YLCGQ-45CP2-7K6J10, Character: Vout=1.1603*P+0.5(MPa)		
Functional Parts	EXV	Electronic expansion valve		VPF-32D40FoshanHualu		
	4-W/V	4-way valve		STF-01VN1FoshanHualu		
	SV	Solenoied valve		FDF2A-217-PK, etc. Zhejiang Dunan		

Item	Symbol	Name		TMVV4N400(14)	TMVV4N450(16)
Compressor	Inverter	Inverter compressor		E405DHD-36D2Y	E405DHD-36D2Y
	FIX1	Fixed speed compressor		E605DH-59D2Y	E655DH-59D2Y
	FIX2	Fixed speed compressor		E605DH-59D2Y	E655DH-59D2Y
	Compressor Safety OLP	Open temperature		160±5℃	
		Starting current		--/62A/62A	--/68A/68A
	CCH	Crank case heater		27.6W *3	
Motor and Security Devices	Motor	Fan motor	Model	WZDK450-38G*2	WZDK450-38G*2
			Output power	360W*2	360W*2
		Safety thermostat	On	115℃	
			Off	/	
	HP	High pressure switch		OFF：44（±1）kg/cm^2/ON：32（±1）kg/cm^2	
	LP	Low pressure switch		OFF：0.3（±1）kg/cm^2/ON：1.0（±1）kg/cm^2	
Temperature sensor	T3,T4	Temperature sensor (condenser outlet/ambient temperature)		25℃=10KΩ	
	Discharge thermostat	Thermostat (Inverter/Fixed discharge)		BW130℃ ON:130℃ OFF:85℃	
Pressure sensor	HPSH	High pressure sensor (discharge)		Model: YLCGQ-45CP2-7K6J10, Character: Vout=1.1603*P+0.5(MPa)	
Functional Parts	EXV	Electronic expansion valve		VPF-32D40 (2 sets)FoshanHualu	
	4-W/V	4-way valve		STF-01VN1FoshanHualu	
	SV	Solenoied valve		FDF2A-217-PK, etc. Zhejiang Dunan	

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