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Part 1 General Information

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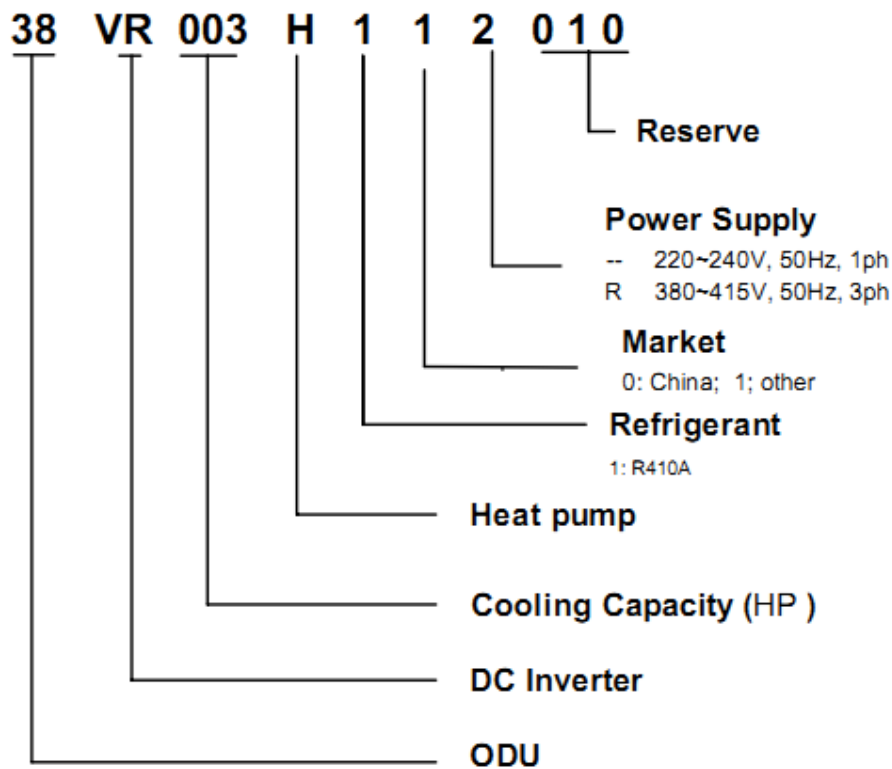
1. Product Lineup

Outdoor Units



Model name	Dimension body(mm)	Net/Gross weight (kg)	Power supply
38VR003H112010	Width: 975 Height: 862 Depth:355	62/67	220~240V-1ph 50Hz
38VR004H11201S	Width: 1075 Height: 966 Depth:396	72/79	220~240V-1ph 50Hz
38VR004H112010	Width: 900 Height: 1327 Depth:400	95/106	220~240V-1ph 50Hz
38VR005H112010	Width: 900 Height: 1327 Depth:400	95/106	220~240V-1ph 50Hz
38VR006H112010	Width: 900 Height: 1327 Depth:400	100/111	220~240V-1ph 50Hz
38VR004H119010	Width: 900 Height: 1327 Depth:400	95/103	380-415V-3ph~ 50Hz
38VR005H119010	Width: 900 Height: 1327 Depth:400	95/103	380-415V-3ph~ 50Hz
38VR006H119010	Width: 900 Height: 1327 Depth:400	102/113	380-415V-3ph~ 50Hz

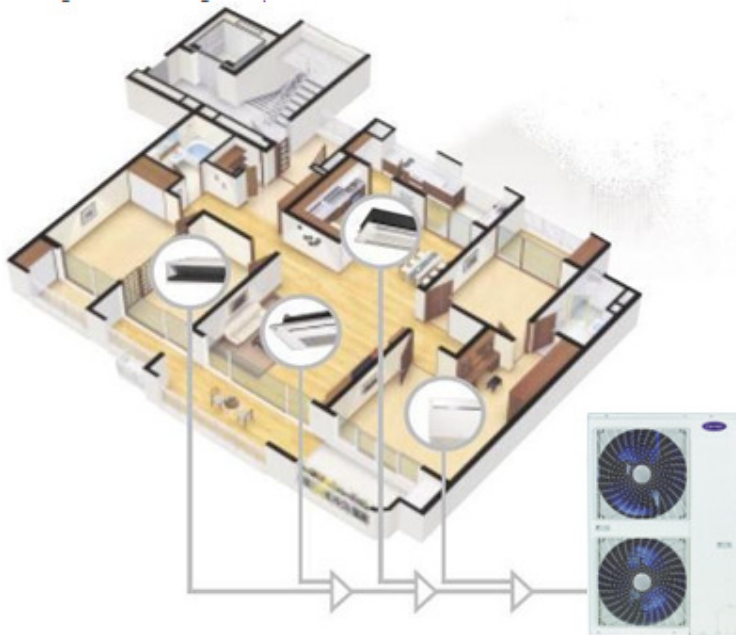
2. Nomenclature



3. Features

1 Widely application

The Carrier full DC Inverter mini VRF system is a highly efficient solution for small commercial buildings requiring heating and cooling of up to 8 zones with one outdoor unit. Such as villa, restaurant, school etc.



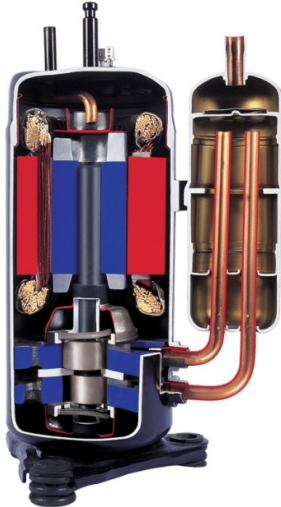
Carrier offers a variety indoor unit, more than 100 models of 15 types. Capacity ranges are from 2.2Kw to 14Kw. it is full compliance with residential and light commercial place. Our systems can operate up to 130% of capacity which allows any system to be designed to the customers and applications needs.



2 High efficiency and Energy-saving

DC inverter Mini VRF realized the industry's top class energy efficiency with cooling and heating COP by adoption of Brushless Reluctance DC compressor control, DC Fan motor and improved heat exchanger performance with a new design.

2.1 High efficiency DC inverter Double rotor compressor, saving power 25%



High efficiency DC inverter

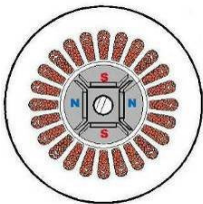
Optimize compressor start-up technology

Wider operating frequency range

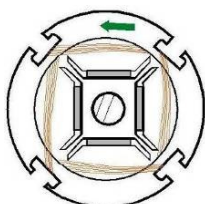
Compact structure

Better balance and lower vibration

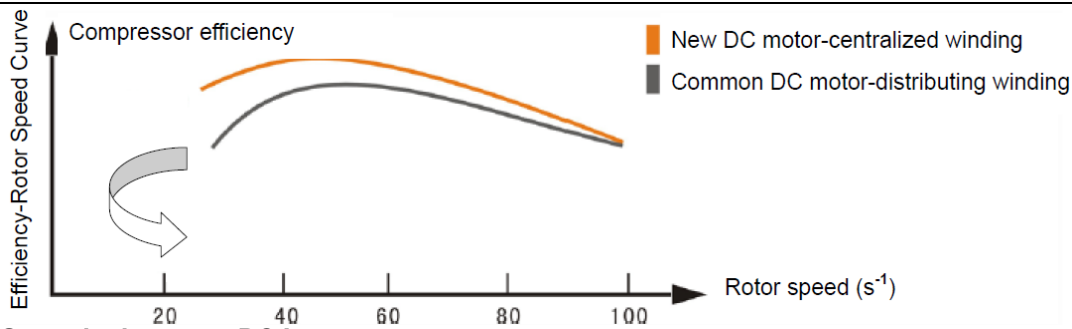
The AC load ratio of building is 30%-75%,the area is 55%, most of the AC runs in the mid load, so the mid load operation ratio control the whole year AC running charge.



Centralizing winding

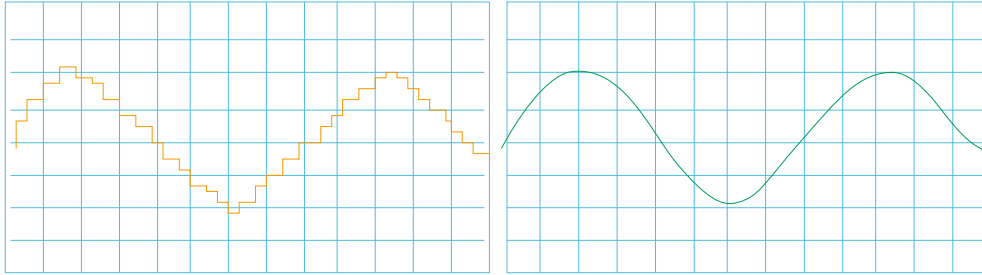


Distributing winding



Smooth sine wave DC Inverter

Motor uses 180° sine wave vector drive technology to ensure transducer to output smooth curve, which show motor rotor speed to run smooth. While, common frequency motor outputs smooth wave not to precisely show motor speed, so its efficiency is low.

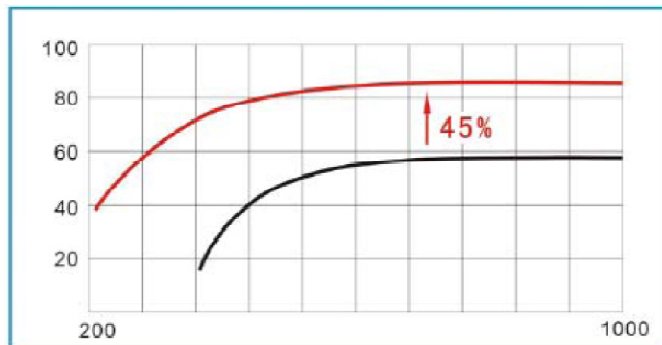
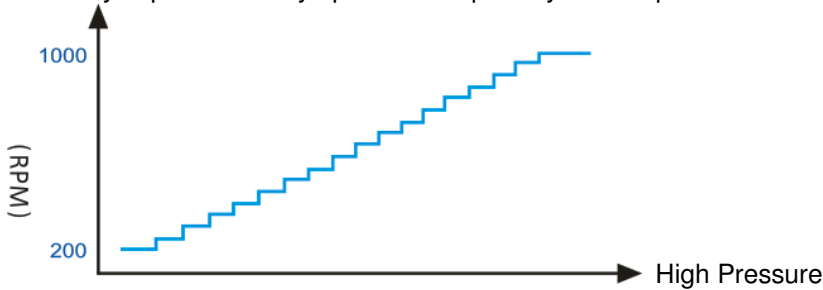


Common smooth wave Sine Wave DC inverter

2.2 High efficiency DC Fan motor, saving power 50%

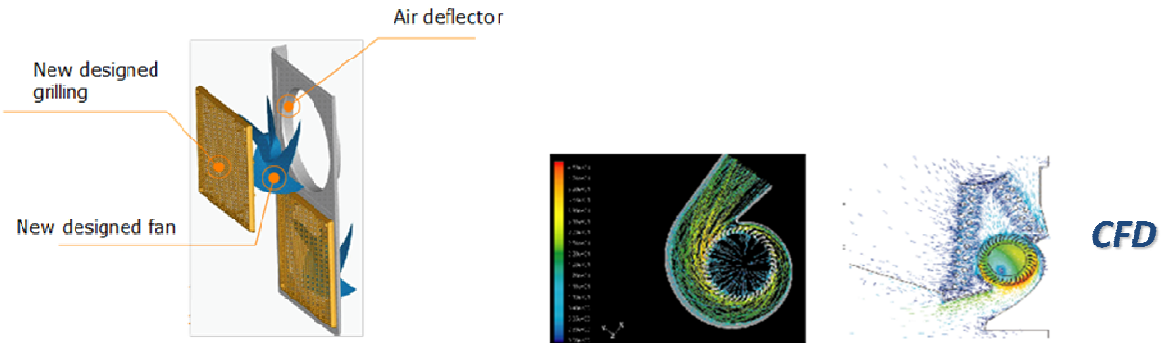
According to the running load and pressure, it controls the speed of DC fan to achieve the min. energy consume, to reach the best effect.

- Used across entire range of models.
- Efficiency improvement by up to 45% especially at low speed.



Motor rotor speed waves among $\pm 5r$, and can rapidly match DC Inverter Compressor to output, and enhance efficiency in part load.

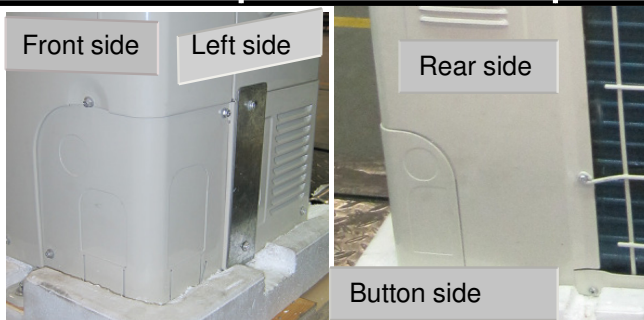
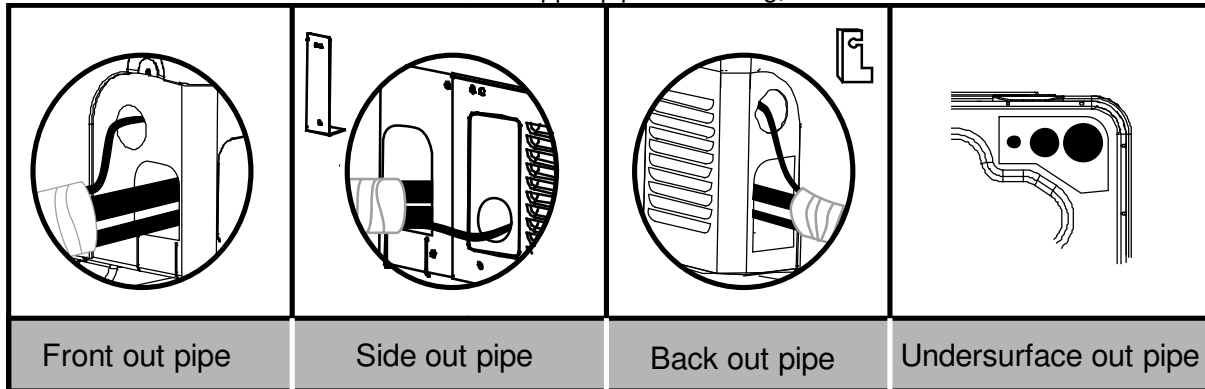
Optically design the fan shape and air designed deflector, which increase the air volume and reduce the running noise.



3 Convenient for installation and service

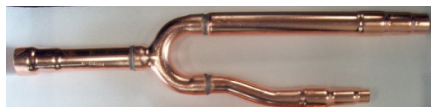
3.1 Easy piping connection

Branch pipe and Four divergence box is available for Full DC inverter system. And Carrier offers Four direction to connect copper pipe and wiring,



Easy installation

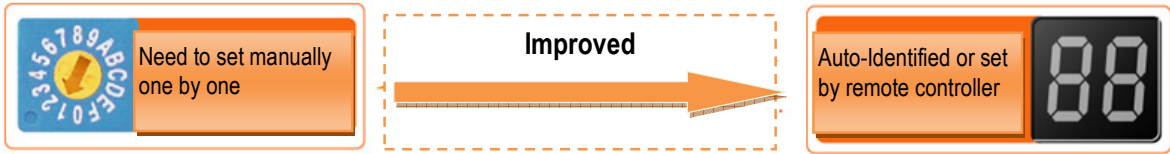
Branch pipe and four divergence box are both available for Full DC inverter system, can be selected according to customs variety requests.



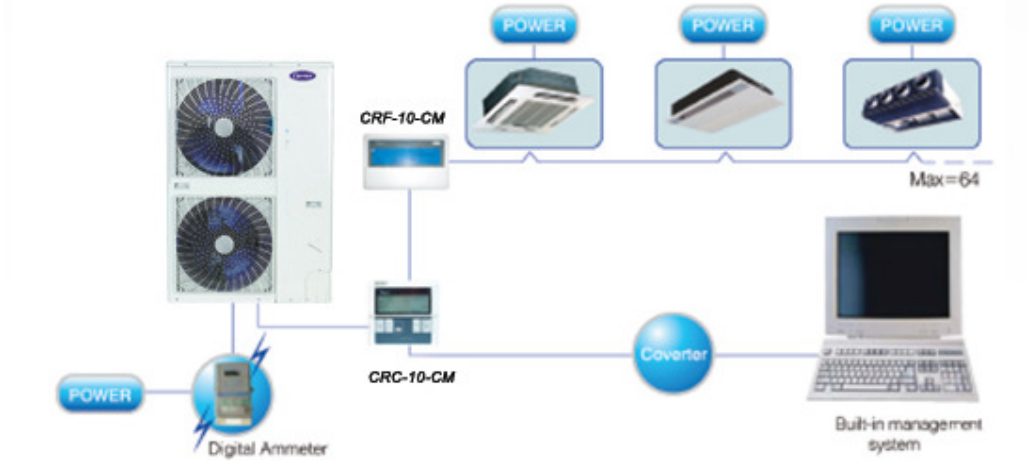
3.2 Auto addressing

Addressing outdoor units and indoor units are automatically done just by pressing the button of the controller.

- The outdoor unit can automatically distribute the address to indoor units without any manual settings.
- Wireless controller can enquiry and modify every indoor units address.



It is possible to enable the shared use of the wiring between indoor & outdoor units, as well the centralized control.
 Connect ammeter and CRC-10-CM and NIM06 to Mini VRF to achieve power consumption calculation.



Part 2 Outdoor Units

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1. Specifications

Model			38VR003H102010	38VR004H10201S	38VR004H112010	
Code			220095103250	220095103240	220095102710	
Power supply		V-Ph-Hz	220~50Hz	220~50Hz	220-240V~50Hz	
Cooling	Capacity	kW	8	10	12	
	Input	kW	3.4	3.75	4.5	
	EER		2.35	2.67	2.67	
Heating	Capacity	kW	9	11.5	13.2	
	Input	kW	2.8	3.5	3.8	
	COP		3.21	3.29	3.47	
Max. input consumption		W	4100	4800	5319	
Max. current		A	19.5	22	24.4	
Compressor	Model		TNB220FLHMC	TNB220FLHMC	TNB306FPGMC	
	Type		Rotary	Rotary	Rotary	
	Brand		MITSUBISHI	MITSUBISHI	MITSUBISHI	
	Capacity	Btu/h	MITSUBISHI	MITSUBISHI	33642	
	Input	W	24334	24334	3010	
	Rated current(RLA)	A	2200	2200	13.5	
	Crankcase	W	9.7	9.7	25	
	Refrigerant oil	ml	PVE 670ml	PVE 670ml	FV50S 870ml+630ml	
Outdoor fan motor	Model		WZDK72-38G-1	WZDK170-38G-1	WZDK100-38G	
	Type		DCmotor	DCmotor	DCmotor	
	Brand		Panasonic	Panasonic	Panasonic	
	Insulation class		E	E	E	
	Safe class		IP23	IP23	IP23	
	Input	W	100	120	2*100	
	Output	W	72	170	2*85	
	Rated current	A	0.8	1.6	2*0.9	
	Capacitor	uF	/	/	/	
	Speed	r/min	800	820	800	
Outdoor fan	Material		ASG20	ASG20	ASG20	
	Type		Axial fan	Axial fan	Axial fan	
	Diameter	mm	496	560	508	
	Height	mm	150	169	170	
Outdoor coil	Number of rows		2	2	2	
	Tube pitch(a)x row pitch(b)	mm	22*19.05	22x19.05	25.4/22	
	Fin spacing	mm	1.7	1.7	1.6	
	Fin type (code)		Hydrophilic aluminum			
	Tube outside dia.and type	mm		φ7.94	φ7.94	φ7.94
				Inner groove tube	Inner groove tube	Inner groove tube
	Coil length x height	mm	766*792*38.1	885x880	1276*870	
Number of circuits		8	5	7		
Outdoor air flow		m ³ /h	5000	5500	6000	
Outdoor sound level(sound pressure level)		dB(A)	55	58	58/55	
Outdoor unit	Dimension(W*H*D)	mm	975*862*355	1075*966*396	900*1327*320	
	Packing (W*H*D)	mm	1025*910*410	1105*1005*435	1030*1456*435	

	Net/Gross weight	kg	62/67	72/79	95/106
Refrigerant	Type		R410A	R410A	R410A
	Charged volume	g	2800	3000	3300
Throttle type			Electronic expansion valve	Electronic expansion valve	Electron expansion valve
Design pressure		MPa	4.4/2.6	4.4/2.6	4.4/2.6
Refrigerant piping	Liquid side/ Gas side	mm	Φ9.53/Φ15.9	Φ9.53/Φ15.9	Φ9.52/Φ15.9
	Max. refrigerant pipe length	m	60	60	60
	Max. difference in level	m	8	8	8
Connection wiring	Power wiring	mm ²	3 core×4	3 core×4	3 core x 4.0
	Signal wiring	mm ²	3 core shielded wire, 3×0.5	3 core shielded wire, 3×0.5	3 core shielded wire x 0.75
Ambient temp		°C	(Cooling -15 ~ 48) (Heating -15 ~ 27)		

Notes:

1. The cooling conditions: indoor temp.: 27□DB (80.6□), 19□WB (60□) outdoor temp.: 35□DB (95□) equivalent pipe length: 5m drop length: 0m.
2. The heating conditions: indoor temp.: 20□DB (68□), 15□WB (44.6□) outdoor temp.: 7□DB (42.8□) equivalent pipe length: 5m drop length: 0m.
3. Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.0m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
4. The above data may be changed without notice for future improvement on quality and performance.

Model			38VR005H112010	38VR006H112010
Code			220095102720	220095102730
Power supply		V-Ph-Hz	220-240V~50Hz	220-240V~50Hz
Cooling	Capacity	kW	14	15.5
	Input	kW	5	6.5
	EER		2.80	2.38
Heating	Capacity	kW	15.4	17
	Input	kW	4.8	6
	COP		3.21	2.83
Max. input consumption		W	6200	7100
Max. current		A	29.8	28.6
Compressor	Model		TNB306FPGMC	LNB42FSCMC
	Type		Rotary	Rotary
	Brand		MITSUBISHI	MITSUBISHI
	Capacity	Btu/h	33642	47700
	Input	W	3010	4240
	Rated current(RLA)	A	13.5	16.1
	Crankcase	W	25	25
	Refrigerant oil	ml	FV50S 870ml+630ml	FV50S 1400ml+250ml
Outdoor fan motor	Model		WZDK100-38G	WZDK100-38G
	Type		DCmotor	DCmotor
	Brand		Panasonic	Panasonic
	Insulation class		E	E
	Safe class		IP23	IP23
	Input	W	2*100	2*100
	Output	W	2*85	2*85
	Rated current	A	2*0.9	2*0.9
	Capacitor	uF	/	/

	Speed	r/min	800	800
Outdoor fan	Material		ASG20	ASG20
	Type		Axial fan	Axial fan
	Diameter	mm	508	508
	Height	mm	170	170
Outdoor coil	Number of rows		2	2
	Tube pitch(a)x row pitch(b)	mm	25.4*22	25.4*22
	Fin spacing	mm	1.6	1.6
	Fin type (code)		Hydrophilic aluminum	
	Tube outside dia.and type	mm	Φ7.94	Φ7.94
			Inner groove tube	Inner groove tube
	Coil length x height	mm	1276*870	1276*870
Number of circuits		7	7	
Outdoor air flow		m ³ /h	6000	6000
Outdoor sound level(sound pressure level)		dB(A)	57/54	57/54
Outdoor unit	Dimension(W*H*D)	mm	900*1327*320	900*1327*320
	Packing (W*H*D)	mm	1030*1456*435	1030*1456*435
	Net/Gross weight	kg	95/106	100/111
Refrigerant	Type		R410A	R410A
	Charged volume	g	3900	3900
Throttle type			Electron expansion valve	Electron expansion valve
Design pressure		MPa	4.4/2.6	4.4/2.6
Refrigerant piping	Liquid side/ Gas side	mm	Φ9.52/Φ15.9	Φ9.52/Φ15.9
	Max. refrigerant pipe length	m	60	60
	Max. difference in level	m	8	8
Connection wiring	Power wiring	mm ²	3 core x 4.0	3 core x 4.0
	Signal wiring	mm ²	3 core shielded wire x 0.75	3 core shielded wire x 0.75
Ambient temp		°C	(Cooling -15 ~ 48) (Heating -15 ~ 27)	

Notes:

1. The cooling conditions: indoor temp.: 27°C DB (80.6°F), 19°C WB (60°F) outdoor temp.: 35°C DB (95°F) equivalent pipe length: 5m drop length: 0m.
2. The heating conditions: indoor temp.: 20°C DB (68°F), 15°C WB (44.6°F) outdoor temp.: 7°C DB (42.8°F) equivalent pipe length: 5m drop length: 0m.
3. Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.0m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
4. The above data may be changed without notice for future improvement on quality and performance.

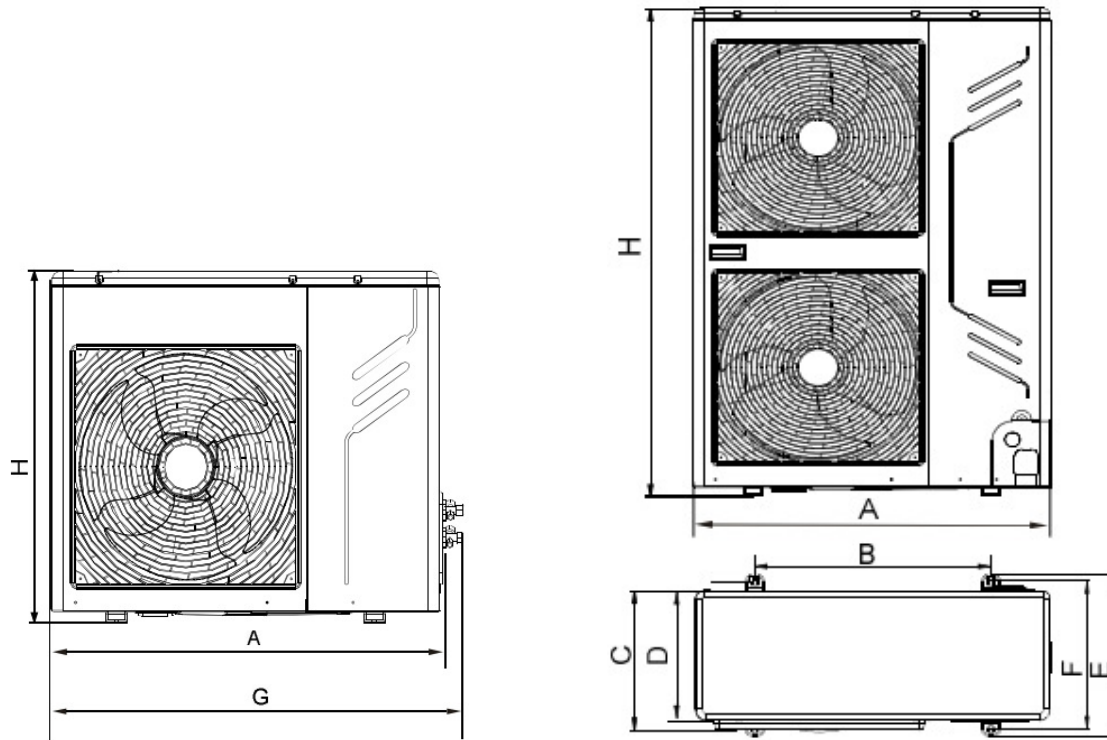
Sale Model			38VR004H119010	38VR005H119010	38VR006H119010
Code			220095102740	220095102750	220095102760
Power supply		V-Ph-Hz	380-415V-3N~50Hz	380-415V-3N~50Hz	380-415V-3N~50Hz
Cooling	Capacity	kW	12	14	15.5
	Input	kW	4.5	5	5.6
	EER		3.69	3.54	3.43
Heating	Capacity	kW	13.2	15.4	17
	Input	kW	3.85	4.4	5.4
	COP		3.8	3.7	3.56
Max. input consumption		W	6443	6443	5800
Max. current		A	12	13	28.6
Compressor	Model		TNB306FPNMC	TNB306FPNMC	LNB42FSAMC
	Type		Rotary	Rotary	Rotary

	Brand		MITSUBISHI	MITSUBISHI	MITSUBISHI
	Capacity	Btu/h	33720	33720	47700
	Input	W	3010	3010	4240
	Rated current(RLA)	A	9.3	9.3	16.1
	Crankcase	W	27	27	25
	Refrigerant oil	ml	FV50S 870ml	FV50S 870ml	FV50S 1400ml
Outdoor fan motor	Model		WZDK100-38G	WZDK100-38G	WZDK100-38G
	Type		DC motor	DC motor	DC motor
	Brand		Panasonic	Panasonic	Panasonic
	Insulation class		E	E	E
	Safe class		IP23	IP23	IP23
	Input	W	2*100	2*100	2*100
	Output	W	2*85	2*85	2*85
	Rated current	A	2*0.9	2*0.9	2*0.9
	Capacitor	uF	/	/	/
	Speed	r/min	800	800	800
Outdoor fan	Material		ASG20	ASG20	ASG20
	Type		Axial fan	Axial fan	Axial fan
	Diameter	mm	508	508	508
	Height	mm	170	170	170
Outdoor coil	Number of rows		2	2	2
	Tube pitch(a)x row pitch(b)	mm	22*19.05	22*19.05	25.4*22
	Fin spacing	mm	1.6	1.6	1.6
	Tube outside dia.and type	mm	Φ7.94 Inner groove tube	Φ7.94 Inner groove tube	Φ7.94 Inner groove tube
	Coil length x height	mm	1276*870	1276*870	1276*870
	Number of circuits		7	7	7
Outdoor air flow	m ³ /h		6983	6500	6000
Outdoor sound level(sound pressure level)	dB(A)		57	57	57/54
Outdoor unit	Dimension(W*H*D)	mm	900*1327*320	900*1327*320	900*1327*320
	Packing (W*H*D)	mm	1030*1456*435	1030*1456*435	1030*1456*435
	Net/Gross weight	kg	95/106	95/106	102/113
Refrigerant	Type		R410A	R410A	R410A
	Charged volume	g	3300	3900	3900
Throttle type			Electron expansion valve		Electron expansion valve
Design pressure	MPa		4.4/2.6		
Refrigerant piping	Liquid side/ Gas side	mm	Φ9.53/Φ15.9		
	Max. refrigerant pipe length	m	100		
	Max. difference in level	m	8		
Connection wiring	Power wiring	mm ²	5 core x2.5		
	Signal wiring	mm ²	3 core shielded wire x 0.5		
Ambient temp	℃		(Cooling -15~48) (Heating -15~27)		

Notes:

1. The cooling conditions: indoor temp.: 27℃DB (80.6℉), 19℃WB (60℉) outdoor temp.: 35℃DB (95℉) equivalent pipe length: 5m drop length: 0m.
2. The heating conditions: indoor temp.: 20℃DB (68℉), 15℃WB (44.6℉) outdoor temp.: 7℃DB (42.8℉) equivalent pipe length: 5m drop length: 0m.
3. Sound level: Anechoic chamber conversion value, measured at a point 1 m in front of the unit at a height of 1.0m. During actual operation, these values are normally somewhat higher as a result of ambient conditions.
4. The above data may be changed without notice for future improvement on quality and performance.

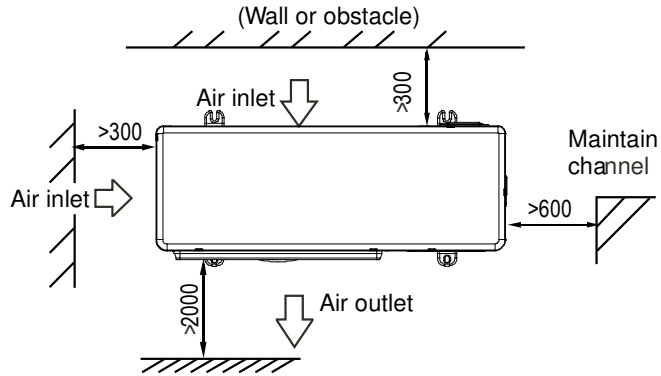
2. Dimensions



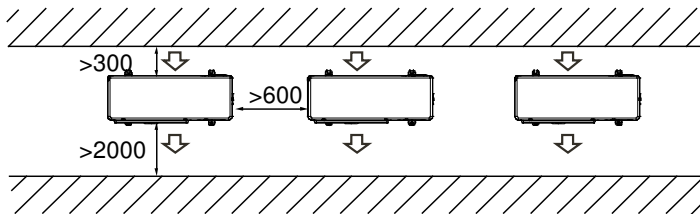
Capacity (kW)	A	B	C	D	E	F	G	H	Fig
80	895	590	313	302	355	333	975	862	Fig.3-1 Fig.3-3
100	990	624	354	336	396	366	1075	966	Fig.3-1 Fig.3-3
120/140/160	900	600	348	320	400	360	—	1327	Fig.3-2 Fig.3-3

3. Service Space

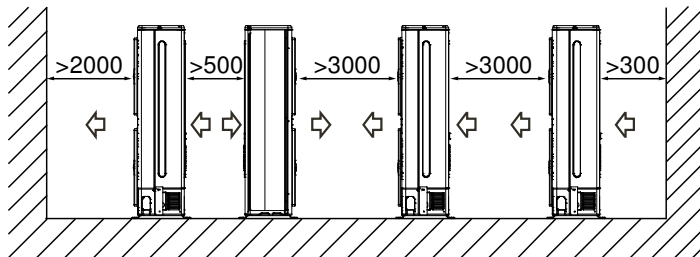
- Single unit installation



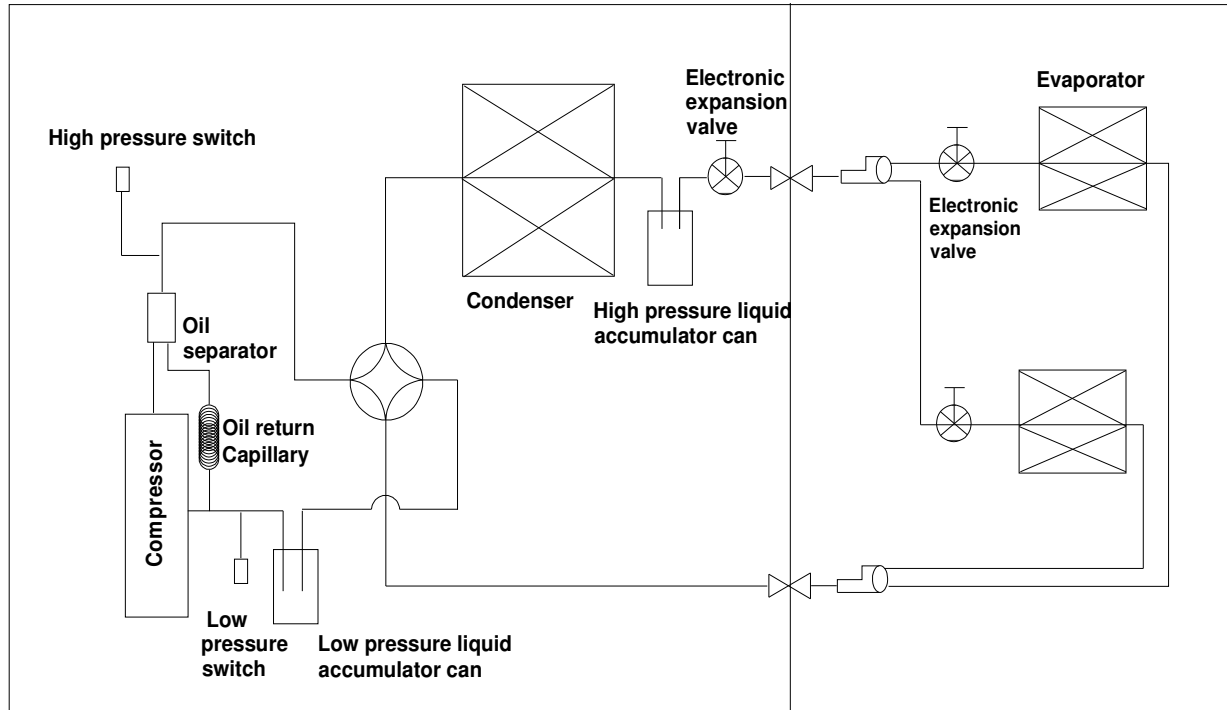
- Parallel connect the two units or above



- Parallel connect the front with rear sides



4. Piping Diagrams

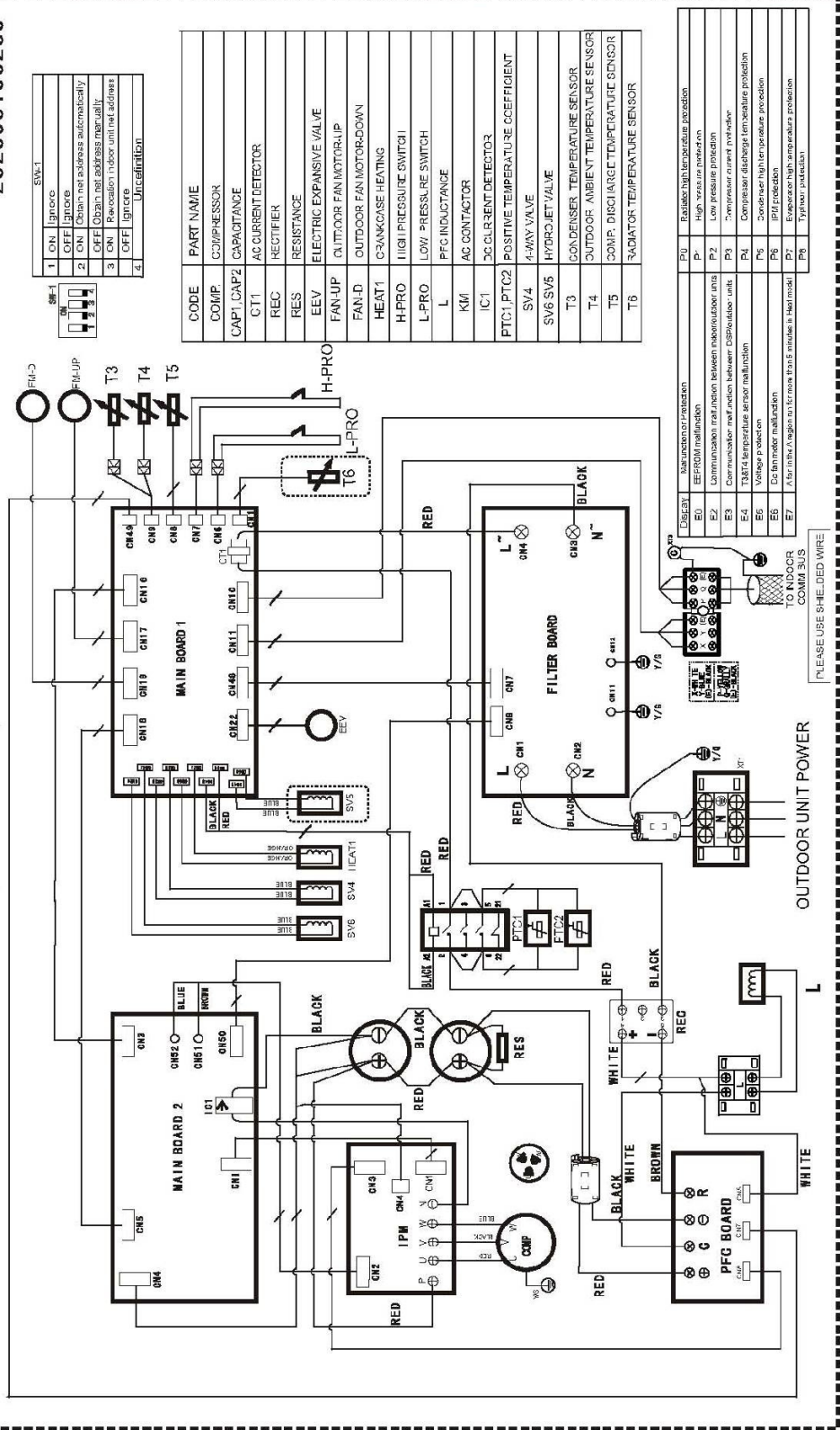


5. Wiring Diagrams

Single phase

202095190239

WIRING DIAGRAM (OUTDOOR UNIT)



SW-1	Function
1 ON	Ignore
2 OFF	Ignore
3 ON	Clean air address automatically
4 OFF	Clean air address manually
5 ON	Re-circulation indoor unit address
6 OFF	Ignore

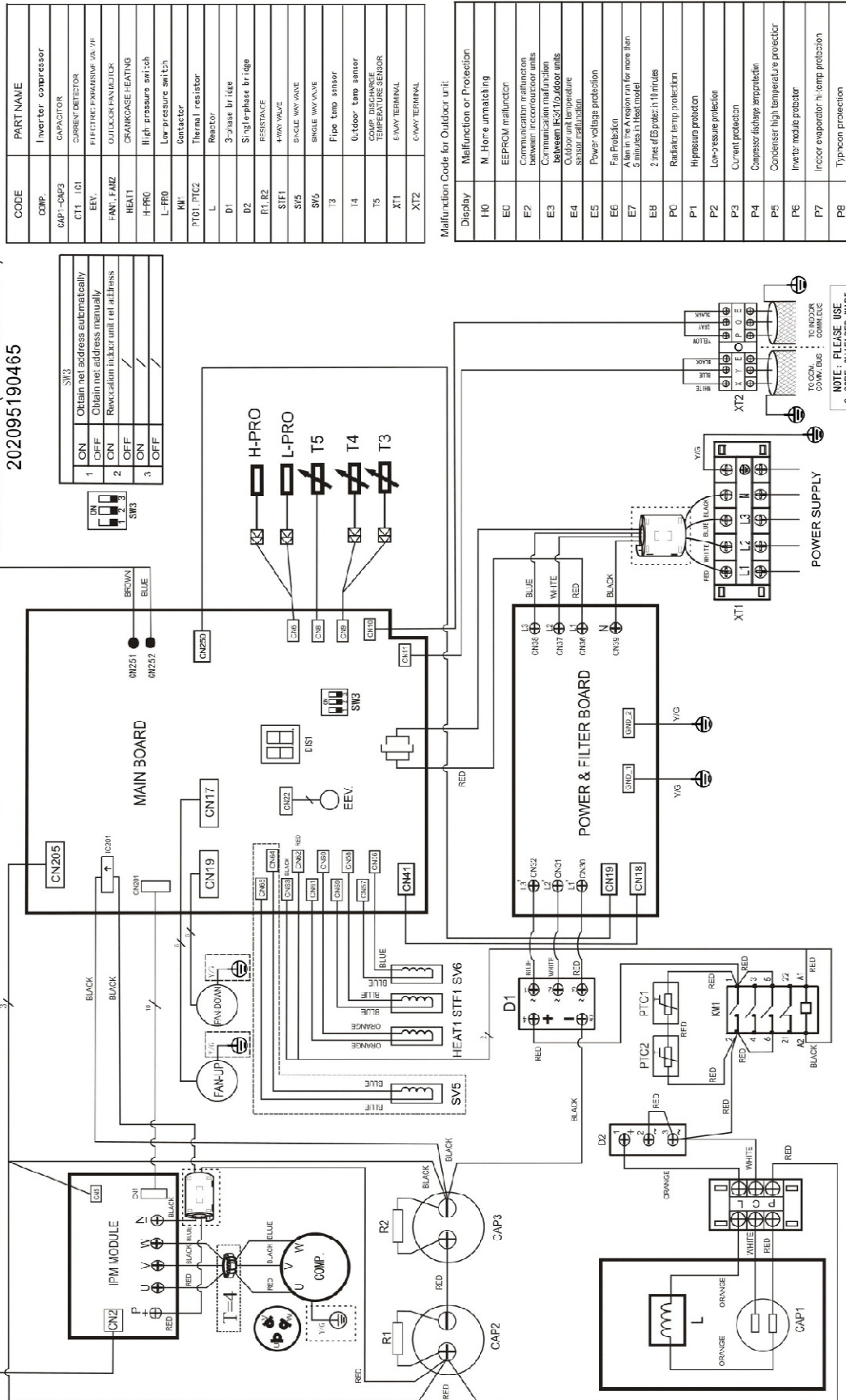
CODE	PART NAME
COMP	COMPRESSOR
CAP1, CAP2	CAPACITANCE
C11	AC CURRENT DETECTOR
REC	RECTIFIER
RES	RESISTANCE
EEV	ELECTRIC EXPANSIVE VALVE
FAN-UP	OUTDOOR FAN MOTOR-UP
FAN-D	OUTDOOR FAN MOTOR-DOWN
HEAT1	C-BANK/CASE HEATING
H-PRO	HIGH PRESSURE SWITCH
L-PRO	LOW PRESSURE SWITCH
L	PFC INDUCTANCE
KM	AC CONTACTOR
IC1	3C CURRENT DETECTOR
PTC1, PTC2	POSITIVE TEMPERATURE COEFFICIENT
SV4	4-WAY VALVE
SV6 SV5	HYDROJET VALVE
T3	CONDENSER TEMPERATURE SENSOR
T4	OUTDOOR AMBIENT TEMPERATURE SENSOR
T5	COMP. DISCHARGE TEMPERATURE SENSOR
T6	RADIATOR TEMPERATURE SENSOR

Symbol	Description
B1	Radial high temperature protection
P1	High pressure protection
P2	Low pressure protection
P3	Compressor current protection
P4	Compressor discharge temperature protection
P5	Condenser high temperature protection
P6	IPM protection
P7	Evaporator high temperature protection
P8	Type protection

PLEASE USE SHE-DED WIRE

Three phase

WIRING DIAGRAM (OUTDOOR UNIT)
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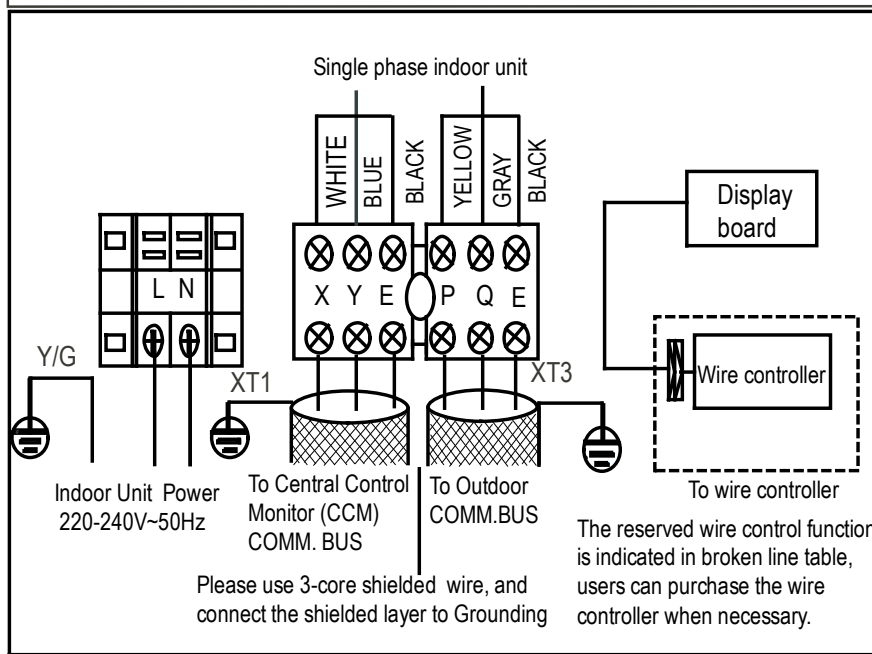
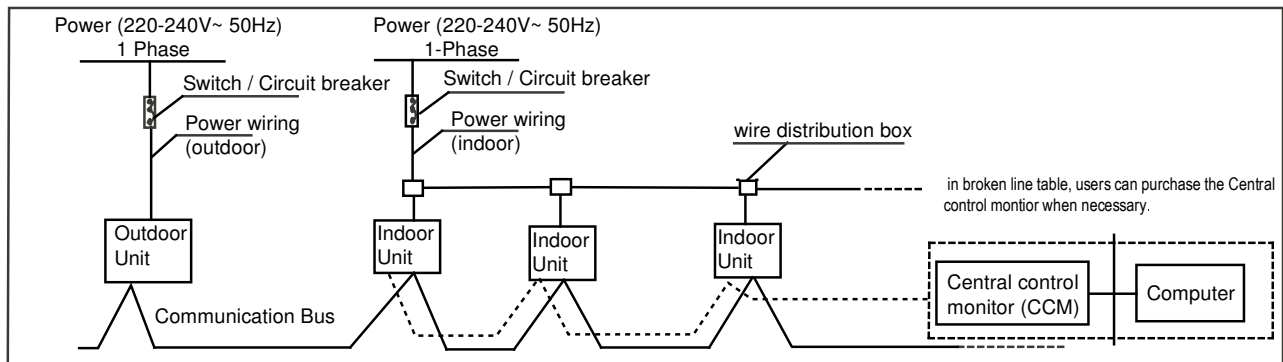
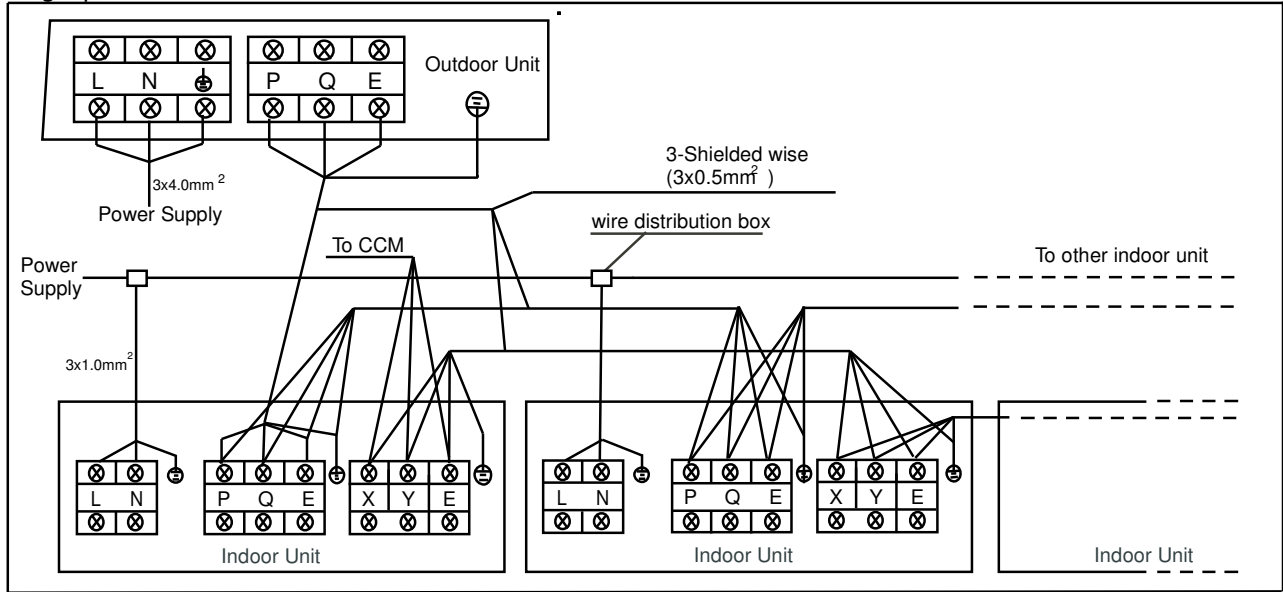
CODE	PART NAME
COMP.	Inverter compressor
CAP1-CAP3	CAPACITOR
CT1, IGI	CURRENT DETECTOR
EEV	FREQUENCY PUMP/REF. VALVE
FAN, FAN2	OUTDOOR FAN/BLOWER
HEAT1	CRANKCASE HEATING
H-PRO	High pressure switch
L-PRO	Low pressure switch
KM1	Contact
PTC1, PTC2	Thermal resistor
L	Relay
D1	3-phase bridge
D2	Single-phase bridge
R1, R2	RESISTANCE
SV1	4-WAY VALVE
SV5	SINGLE WAY VALVE
SV6	SINGLE WAY VALVE
T3	Pipe temp sensor
T4	U-tube temp sensor
T5	COMP. DISCHARGE TEMPERATURE SENSOR
XT1	5-WAY TERMINAL
XT2	6-WAY TERMINAL

Malfunction Code for Outdoor unit:

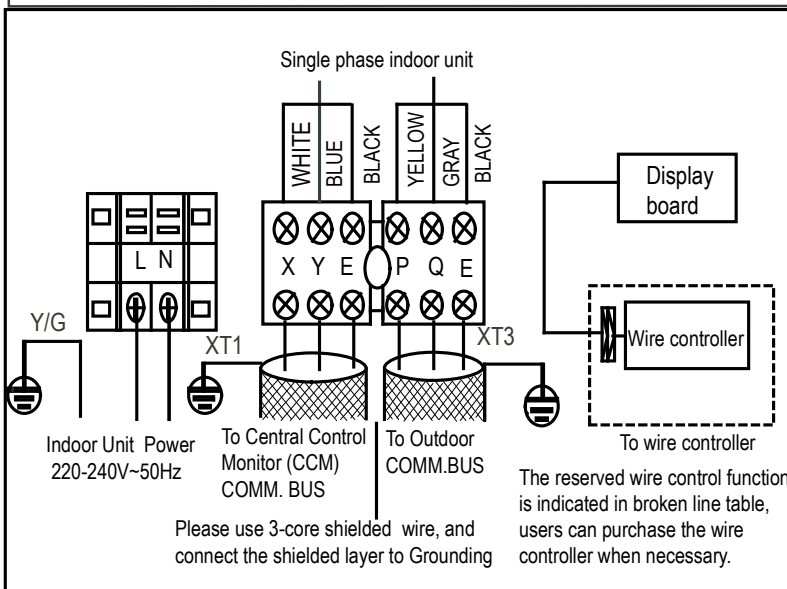
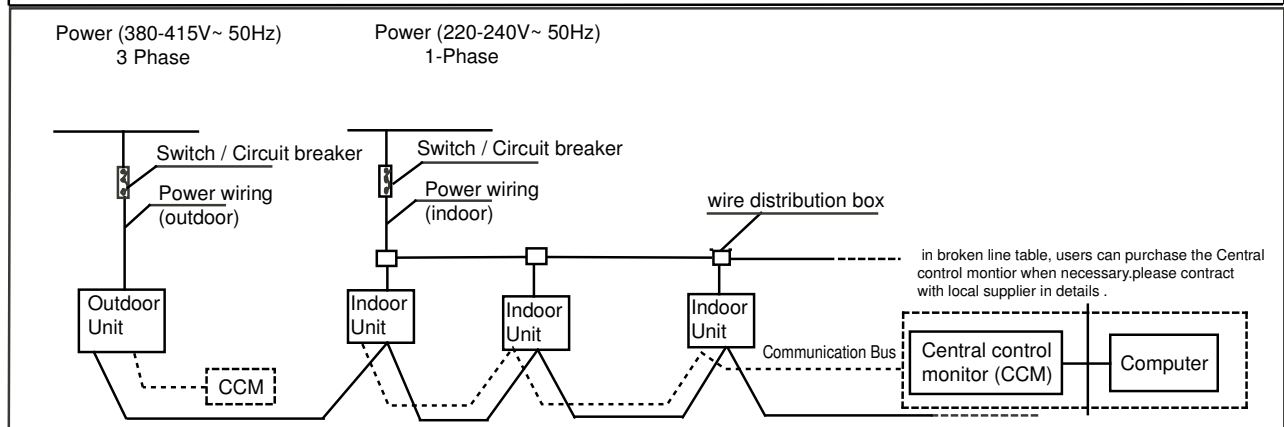
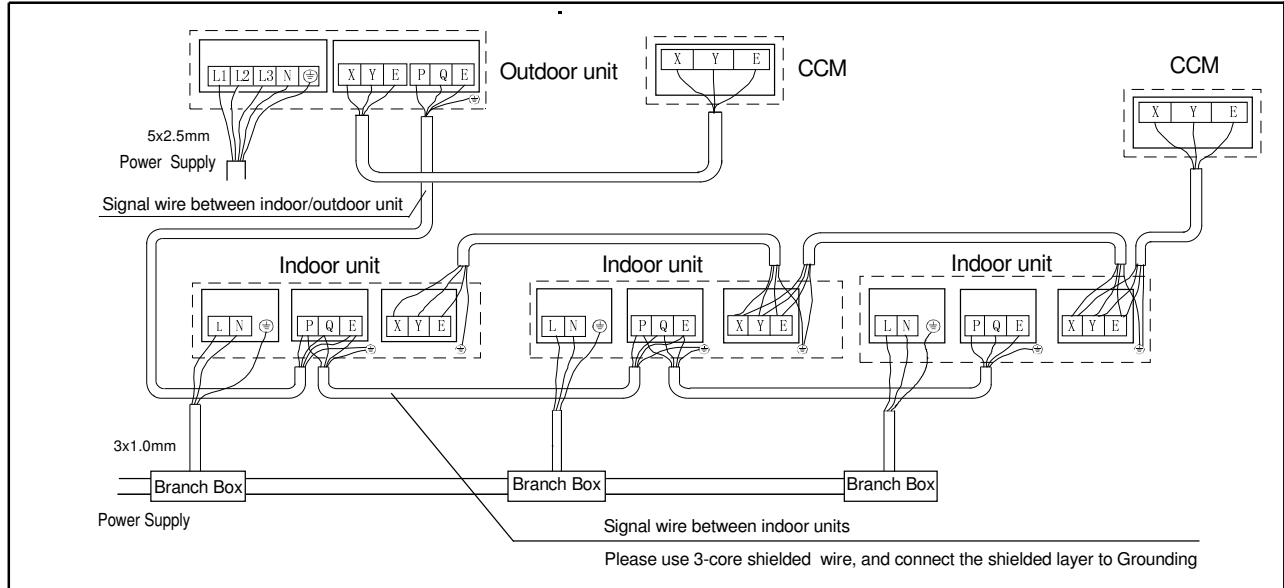
Display	Malfunction or Protection
H0	M. Home unmatching
E0	EEPROM malfunction
F2	Communication malfunction between inverter/ outdoor units
E3	Communication malfunction between E5/T2/ outdoor units
E4	Outdoor unit temperature sensor disconnection
E5	Power voltage protection
E6	Fan Protection
E7	Alarm in the A region (run for more than 5 minutes in Heat model)
E8	2-line eEB probe in 10 minutes
PC	Refrigerant temp. protection
P1	High pressure protection
P2	Low pressure protection
P3	Current protection
P4	Compressor discharge temperature
P5	Condenser high temperature protection
P6	Inverter module protection
P7	Inverter evaporator hi. temp protection
P8	Typeicon protection

6. Field Wiring

Single phase



Three phase



7. Capacity Tables

38VR003H102010

Cooling

Combinati on (%) (Capacity index)	Outdoor Air temperature(°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
130%	10	7.03	1.57	8.37	1.92	9.71	2.28	10.09	2.33	10.20	2.28	10.46	2.19	10.71	2.09
	12	7.03	1.59	8.37	1.95	9.71	2.32	9.94	2.31	10.09	2.27	10.31	2.17	10.57	2.14
	14	7.03	1.63	8.37	1.99	9.69	2.35	9.83	2.32	9.94	2.25	10.20	2.24	10.46	2.26
	16	7.03	1.65	8.37	2.03	9.57	2.34	9.69	2.31	9.80	2.33	10.06	2.36	10.31	2.38
	18	7.03	1.69	8.37	2.07	9.43	2.43	9.54	2.44	9.69	2.46	9.94	2.48	10.20	2.50
	20	7.03	1.72	8.37	2.20	9.29	2.55	9.43	2.56	9.54	2.58	9.80	2.60	10.06	2.63
	21	7.03	1.77	8.37	2.28	9.23	2.61	9.37	2.62	9.49	2.64	9.74	2.66	10.00	2.69
	23	7.03	1.90	8.37	2.45	9.11	2.73	9.23	2.74	9.34	2.75	9.60	2.78	9.86	2.81
	25	7.03	2.03	8.37	2.62	8.97	2.85	9.09	2.86	9.23	2.88	9.49	2.91	9.74	2.93
	27	7.03	2.16	8.37	2.80	8.86	2.96	8.97	2.98	9.09	3.00	9.34	3.03	9.60	3.06
	29	7.03	2.31	8.37	3.00	8.71	3.08	8.83	3.10	8.97	3.12	9.23	3.15	9.49	3.18
	31	7.03	2.47	8.34	3.17	8.57	3.21	8.71	3.23	8.83	3.24	9.09	3.28	9.34	3.31
	33	7.03	2.63	8.20	3.29	8.46	3.33	8.57	3.35	8.71	3.36	8.97	3.40	9.20	3.44
	35	7.03	2.80	8.06	3.41	8.31	3.45	8.46	3.47	8.57	3.49	8.83	3.53	9.09	3.57
	37	7.03	2.98	7.94	3.53	8.20	3.57	8.31	3.59	8.46	3.62	8.69	3.66	8.94	3.70
	39	7.03	3.17	7.80	3.57	8.06	3.69	8.20	3.72	8.31	3.74	8.57	3.78	8.83	3.83
42	7.03	3.34	7.72	3.60	7.97	3.73	8.12	3.75	8.23	3.77	8.49	3.79	8.49	3.86	
44	7.03	3.51	7.64	3.64	7.89	3.75	8.03	3.79	8.06	3.78	8.18	3.80	8.29	3.88	
46	7.03	3.68	7.61	3.67	7.80	3.80	7.95	3.80	7.99	3.81	8.03	3.82	8.16	4.01	
120%	10	6.49	1.43	7.71	1.75	8.97	2.08	9.60	2.25	10.06	2.34	10.29	2.25	10.51	2.16
	12	6.49	1.46	7.71	1.78	8.97	2.12	9.60	2.29	9.91	2.33	10.14	2.24	10.37	2.15
	14	6.49	1.48	7.71	1.81	8.97	2.16	9.60	2.33	9.77	2.31	10.03	2.23	10.26	2.24
	16	6.49	1.51	7.71	1.85	8.97	2.20	9.54	2.35	9.66	2.32	9.89	2.34	10.11	2.36
	18	6.49	1.54	7.71	1.89	8.97	2.27	9.40	2.43	9.51	2.44	9.74	2.46	10.00	2.48
	20	6.49	1.57	7.71	1.96	8.97	2.45	9.29	2.55	9.40	2.56	9.63	2.58	9.86	2.60
	21	6.49	1.59	7.71	2.03	8.97	2.53	9.20	2.61	9.31	2.62	9.57	2.64	9.80	2.67
	23	6.49	1.70	7.71	2.18	8.97	2.71	9.09	2.72	9.20	2.74	9.43	2.76	9.66	2.79
	25	6.49	1.81	7.71	2.33	8.83	2.83	8.94	2.84	9.06	2.85	9.31	2.88	9.54	2.91
	27	6.49	1.93	7.71	2.49	8.71	2.95	8.83	2.96	8.94	2.98	9.17	3.01	9.40	3.03
	29	6.49	2.06	7.71	2.66	8.57	3.07	8.69	3.08	8.80	3.10	9.03	3.13	9.29	3.16
	31	6.49	2.20	7.71	2.84	8.43	3.19	8.57	3.20	8.69	3.22	8.91	3.25	9.14	3.29
	33	6.49	2.34	7.71	3.02	8.31	3.31	8.43	3.33	8.54	3.34	8.77	3.38	9.00	3.41
	35	6.49	2.49	7.71	3.23	8.17	3.43	8.29	3.45	8.43	3.46	8.66	3.50	8.89	3.54
	37	6.49	2.65	7.71	3.44	8.06	3.55	8.17	3.57	8.29	3.59	8.51	3.62	8.74	3.67
	39	6.49	2.82	7.69	3.63	7.91	3.67	8.03	3.69	8.14	3.71	8.40	3.75	8.63	3.79
42	6.49	2.93	7.60	3.66	7.83	3.71	7.95	3.73	8.06	3.75	8.32	3.77	8.30	3.83	
44	6.49	2.96	7.56	3.70	7.75	3.73	7.86	3.74	7.98	3.76	8.07	3.78	8.20	3.96	
46	6.49	2.99	7.52	3.73	7.68	3.77	7.78	3.80	7.92	3.80	7.99	3.79	8.13	4.00	
110%	10	5.94	1.30	7.09	1.58	8.23	1.88	8.80	2.03	9.37	2.19	10.09	2.32	10.31	2.24
	12	5.94	1.32	7.09	1.61	8.23	1.92	8.80	2.07	9.37	2.23	9.97	2.31	10.17	2.23
	14	5.94	1.35	7.09	1.64	8.23	1.95	8.80	2.11	9.37	2.27	9.83	2.30	10.06	2.22
	16	5.94	1.37	7.09	1.67	8.23	1.99	8.80	2.15	9.37	2.31	9.71	2.32	9.91	2.35
	18	5.94	1.40	7.09	1.70	8.23	2.03	8.80	2.21	9.37	2.42	9.57	2.44	9.80	2.47
	20	5.94	1.43	7.09	1.74	8.23	2.15	8.80	2.37	9.23	2.54	9.46	2.56	9.66	2.58
	21	5.94	1.44	7.09	1.79	8.23	2.23	8.80	2.46	9.17	2.60	9.37	2.62	9.60	2.64
	23	5.94	1.51	7.09	1.92	8.23	2.39	8.80	2.64	9.03	2.72	9.26	2.74	9.46	2.77
	25	5.94	1.61	7.09	2.05	8.23	2.55	8.80	2.83	8.91	2.84	9.11	2.86	9.34	2.89
	27	5.94	1.71	7.09	2.19	8.23	2.73	8.66	2.95	8.77	2.96	9.00	2.98	9.20	3.01
	29	5.94	1.83	7.09	2.34	8.23	2.92	8.54	3.07	8.66	3.08	8.86	3.11	9.09	3.13
	31	5.94	1.95	7.09	2.50	8.23	3.12	8.40	3.18	8.51	3.20	8.74	3.23	8.94	3.26
	33	5.94	2.07	7.09	2.66	8.17	3.29	8.29	3.30	8.40	3.32	8.60	3.35	8.83	3.38
	35	5.94	2.20	7.09	2.84	8.03	3.40	8.14	3.42	8.26	3.44	8.46	3.47	8.69	3.51
37	5.94	2.35	7.09	3.02	7.91	3.53	8.03	3.54	8.11	3.56	8.34	3.60	8.54	3.63	

	39	5.94	2.49	7.09	3.22	7.77	3.65	7.89	3.67	8.00	3.68	8.20	3.72	8.43	3.76
	42	5.94	2.53	7.09	3.25	7.69	3.68	7.80	3.70	7.92	3.72	8.06	3.76	8.09	3.79
	44	5.94	2.56	7.09	3.29	7.61	3.72	7.72	3.73	7.84	3.75	7.99	3.77	8.01	3.93
	46	5.94	2.63	7.09	3.32	7.54	3.75	7.64	3.79	7.78	3.79	7.90	3.96	7.94	3.97
100%	10	5.40	1.17	6.43	1.42	7.49	1.68	8.00	1.82	8.51	1.96	9.57	2.24	10.11	2.31
	12	5.40	1.19	6.43	1.45	7.49	1.71	8.00	1.85	8.51	1.99	9.57	2.28	9.97	2.30
	14	5.40	1.21	6.43	1.48	7.49	1.75	8.00	1.89	8.51	2.03	9.57	2.32	9.86	2.29
	16	5.40	1.24	6.43	1.50	7.49	1.78	8.00	1.92	8.51	2.07	9.51	2.35	9.71	2.33
	18	5.40	1.26	6.43	1.53	7.49	1.81	8.00	1.96	8.51	2.11	9.40	2.43	9.60	2.45
	20	5.40	1.28	6.43	1.56	7.49	1.87	8.00	2.06	8.51	2.26	9.26	2.54	9.46	2.57
	21	5.40	1.30	6.43	1.58	7.49	1.94	8.00	2.14	8.51	2.34	9.20	2.60	9.40	2.63
	23	5.40	1.33	6.43	1.68	7.49	2.08	8.00	2.29	8.51	2.51	9.09	2.72	9.26	2.74
	25	5.40	1.42	6.43	1.80	7.49	2.22	8.00	2.45	8.51	2.69	8.94	2.84	9.14	2.86
	27	5.40	1.51	6.43	1.92	7.49	2.37	8.00	2.62	8.51	2.88	8.80	2.96	9.00	2.99
	29	5.40	1.61	6.43	2.04	7.49	2.53	8.00	2.80	8.49	3.06	8.69	3.08	8.89	3.11
	31	5.40	1.71	6.43	2.18	7.49	2.70	8.00	2.99	8.37	3.18	8.54	3.20	8.74	3.23
	33	5.40	1.82	6.43	2.32	7.49	2.88	8.00	3.19	8.23	3.29	8.43	3.32	8.63	3.35
	35	5.40	1.93	6.43	2.47	7.49	3.07	8.00	3.40	8.09	3.41	8.29	3.45	8.49	3.47
	37	5.40	2.06	6.43	2.63	7.49	3.28	7.86	3.52	7.97	3.54	8.17	3.57	8.34	3.60
	39	5.40	2.19	6.43	2.80	7.49	3.49	7.74	3.64	7.83	3.66	8.03	3.69	8.23	3.73
42	5.40	2.32	6.43	2.93	7.49	3.66	7.58	3.67	7.75	3.73	7.84	3.78	8.07	3.83	
44	5.40	2.46	6.43	3.07	7.49	3.71	7.42	3.74	7.68	3.77	8.03	3.82	7.86	3.86	
46	5.40	2.59	6.43	3.20	7.49	3.78	7.26	3.77	7.67	3.87	7.71	3.89	7.75	3.93	
90%	10	4.86	1.05	5.80	1.26	6.74	1.49	7.20	1.61	7.66	1.73	8.60	1.98	9.54	2.23
	12	4.86	1.07	5.80	1.29	6.74	1.52	7.20	1.64	7.66	1.76	8.60	2.02	9.54	2.27
	14	4.86	1.09	5.80	1.31	6.74	1.55	7.20	1.67	7.66	1.80	8.60	2.05	9.54	2.31
	16	4.86	1.10	5.80	1.33	6.74	1.58	7.20	1.70	7.66	1.83	8.60	2.09	9.51	2.36
	18	4.86	1.12	5.80	1.36	6.74	1.61	7.20	1.74	7.66	1.87	8.60	2.14	9.40	2.43
	20	4.86	1.15	5.80	1.39	6.74	1.64	7.20	1.77	7.66	1.94	8.60	2.30	9.26	2.54
	21	4.86	1.15	5.80	1.40	6.74	1.67	7.20	1.83	7.66	2.01	8.60	2.38	9.20	2.60
	23	4.86	1.18	5.80	1.46	6.74	1.79	7.20	1.97	7.66	2.15	8.60	2.55	9.06	2.72
	25	4.86	1.24	5.80	1.56	6.74	1.91	7.20	2.10	7.66	2.30	8.60	2.73	8.94	2.84
	27	4.86	1.32	5.80	1.66	6.74	2.04	7.20	2.25	7.66	2.46	8.60	2.92	8.80	2.96
	29	4.86	1.41	5.80	1.77	6.74	2.18	7.20	2.40	7.66	2.63	8.51	3.06	8.69	3.08
	31	4.86	1.49	5.80	1.88	6.74	2.32	7.20	2.56	7.66	2.80	8.37	3.18	8.54	3.20
	33	4.86	1.59	5.80	2.00	6.74	2.47	7.20	2.73	7.66	2.99	8.26	3.30	8.43	3.32
	35	4.86	1.69	5.80	2.13	6.74	2.63	7.20	2.90	7.66	3.19	8.11	3.42	8.29	3.45
	37	4.86	1.79	5.80	2.26	6.74	2.80	7.20	3.09	7.66	3.40	7.97	3.54	8.17	3.56
	39	4.86	1.90	5.80	2.41	6.74	2.98	7.20	3.29	7.66	3.62	7.86	3.66	8.03	3.69
42	4.86	1.98	5.80	2.56	6.74	3.13	7.20	3.41	7.66	3.65	7.78	3.79	7.96	3.80	
44	4.86	2.13	5.80	2.70	6.74	3.27	7.20	3.53	7.66	3.79	7.74	3.82	7.86	3.86	
46	4.86	2.25	5.80	2.82	6.74	3.39	7.20	3.64	7.66	3.86	7.70	3.86	7.71	3.91	
80%	10	4.31	0.93	5.14	1.11	5.97	1.31	6.40	1.41	6.83	1.51	7.66	1.73	8.49	1.95
	12	4.31	0.94	5.14	1.13	5.97	1.33	6.40	1.44	6.83	1.54	7.66	1.76	8.49	1.98
	14	4.31	0.96	5.14	1.15	5.97	1.36	6.40	1.46	6.83	1.57	7.66	1.79	8.49	2.02
	16	4.31	0.98	5.14	1.17	5.97	1.38	6.40	1.49	6.83	1.60	7.66	1.83	8.49	2.06
	18	4.31	0.99	5.14	1.20	5.97	1.41	6.40	1.52	6.83	1.63	7.66	1.87	8.49	2.10
	20	4.31	1.01	5.14	1.22	5.97	1.44	6.40	1.55	6.83	1.66	7.66	1.93	8.49	2.25
	21	4.31	1.02	5.14	1.23	5.97	1.45	6.40	1.57	6.83	1.70	7.66	2.00	8.49	2.33
	23	4.31	1.04	5.14	1.26	5.97	1.52	6.40	1.67	6.83	1.82	7.66	2.14	8.49	2.50
	25	4.31	1.07	5.14	1.33	5.97	1.63	6.40	1.78	6.83	1.94	7.66	2.30	8.49	2.67
	27	4.31	1.14	5.14	1.42	5.97	1.73	6.40	1.90	6.83	2.08	7.66	2.45	8.49	2.86
	29	4.31	1.21	5.14	1.51	5.97	1.85	6.40	2.03	6.83	2.22	7.66	2.62	8.49	3.06
	31	4.31	1.29	5.14	1.61	5.97	1.97	6.40	2.16	6.83	2.36	7.66	2.80	8.34	3.18
	33	4.31	1.37	5.14	1.71	5.97	2.09	6.40	2.30	6.83	2.52	7.66	2.98	8.23	3.29
	35	4.31	1.45	5.14	1.82	5.97	2.23	6.40	2.45	6.83	2.68	7.66	3.18	8.09	3.41
	37	4.31	1.54	5.14	1.93	5.97	2.37	6.40	2.61	6.83	2.85	7.66	3.39	7.97	3.53
	39	4.31	1.63	5.14	2.06	5.97	2.52	6.40	2.77	6.83	3.04	7.66	3.61	7.83	3.66
42	4.31	1.68	5.14	2.08	5.97	2.57	6.40	2.87	6.83	3.11	7.66	3.73	7.76	3.74	
44	4.31	1.75	5.14	2.11	5.97	2.62	6.40	2.92	6.83	3.16	7.66	3.75	7.70	3.78	
46	4.31	1.78	5.14	2.13	5.97	2.67	6.40	2.99	6.83	3.22	7.66	3.81	7.64	3.87	
70%	10	3.77	0.82	4.51	0.97	5.23	1.13	5.60	1.22	5.97	1.31	6.69	1.48	7.43	1.67

	12	3.77	0.83	4.51	0.99	5.23	1.15	5.60	1.24	5.97	1.33	6.69	1.51	7.43	1.70
	14	3.77	0.84	4.51	1.00	5.23	1.17	5.60	1.26	5.97	1.35	6.69	1.54	7.43	1.73
	16	3.77	0.86	4.51	1.02	5.23	1.20	5.60	1.29	5.97	1.38	6.69	1.57	7.43	1.76
	18	3.77	0.87	4.51	1.04	5.23	1.22	5.60	1.31	5.97	1.40	6.69	1.60	7.43	1.80
	20	3.77	0.88	4.51	1.06	5.23	1.24	5.60	1.33	5.97	1.43	6.69	1.63	7.43	1.85
	21	3.77	0.89	4.51	1.07	5.23	1.25	5.60	1.35	5.97	1.44	6.69	1.65	7.43	1.92
	23	3.77	0.91	4.51	1.09	5.23	1.28	5.60	1.39	5.97	1.52	6.69	1.77	7.43	2.05
	25	3.77	0.93	4.51	1.13	5.23	1.36	5.60	1.49	5.97	1.62	6.69	1.90	7.43	2.19
	27	3.77	0.98	4.51	1.21	5.23	1.45	5.60	1.59	5.97	1.73	6.69	2.03	7.43	2.35
	29	3.77	1.04	4.51	1.28	5.23	1.54	5.60	1.69	5.97	1.84	6.69	2.16	7.43	2.51
	31	3.77	1.10	4.51	1.36	5.23	1.65	5.60	1.80	5.97	1.96	6.69	2.30	7.43	2.67
	33	3.77	1.17	4.51	1.44	5.23	1.75	5.60	1.91	5.97	2.09	6.69	2.45	7.43	2.85
	35	3.77	1.24	4.51	1.53	5.23	1.86	5.60	2.03	5.97	2.22	6.69	2.61	7.43	3.04
	37	3.77	1.31	4.51	1.62	5.23	1.97	5.60	2.16	5.97	2.36	6.69	2.78	7.43	3.24
	39	3.77	1.38	4.51	1.72	5.23	2.09	5.60	2.30	5.97	2.51	6.69	2.96	7.43	3.45
	42	3.77	1.47	4.51	1.80	5.23	2.18	5.60	2.40	5.97	2.61	6.69	3.12	7.43	3.65
44	3.77	1.56	4.51	1.90	5.23	2.24	5.60	2.50	5.97	2.71	6.69	3.26	7.43	3.77	
46	3.77	1.63	4.51	1.98	5.23	2.34	5.60	2.58	5.97	2.79	6.69	3.36	7.43	3.85	
60%	10	3.23	0.71	3.86	0.83	4.49	0.97	4.80	1.04	5.11	1.10	5.74	1.25	6.37	1.40
	12	3.23	0.72	3.86	0.85	4.49	0.98	4.80	1.05	5.11	1.12	5.74	1.27	6.37	1.42
	14	3.23	0.73	3.86	0.86	4.49	1.00	4.80	1.07	5.11	1.15	5.74	1.30	6.37	1.45
	16	3.23	0.74	3.86	0.88	4.49	1.02	4.80	1.09	5.11	1.16	5.74	1.32	6.37	1.48
	18	3.23	0.76	3.86	0.89	4.49	1.04	4.80	1.11	5.11	1.19	5.74	1.34	6.37	1.51
	20	3.23	0.77	3.86	0.91	4.49	1.05	4.80	1.13	5.11	1.21	5.74	1.37	6.37	1.54
	21	3.23	0.77	3.86	0.91	4.49	1.06	4.80	1.14	5.11	1.22	5.74	1.38	6.37	1.55
	23	3.23	0.78	3.86	0.93	4.49	1.08	4.80	1.16	5.11	1.24	5.74	1.44	6.37	1.65
	25	3.23	0.80	3.86	0.94	4.49	1.12	4.80	1.22	5.11	1.32	5.74	1.53	6.37	1.76
	27	3.23	0.83	3.86	1.00	4.49	1.20	4.80	1.30	5.11	1.41	5.74	1.64	6.37	1.88
	29	3.23	0.88	3.86	1.06	4.49	1.27	4.80	1.38	5.11	1.50	5.74	1.75	6.37	2.01
	31	3.23	0.93	3.86	1.13	4.49	1.35	4.80	1.47	5.11	1.59	5.74	1.86	6.37	2.14
	33	3.23	0.98	3.86	1.20	4.49	1.43	4.80	1.56	5.11	1.70	5.74	1.97	6.37	2.28
	35	3.23	1.04	3.86	1.27	4.49	1.52	4.80	1.66	5.11	1.80	5.74	2.10	6.37	2.43
	37	3.23	1.10	3.86	1.34	4.49	1.61	4.80	1.76	5.11	1.91	5.74	2.24	6.37	2.58
	39	3.23	1.16	3.86	1.42	4.49	1.71	4.80	1.86	5.11	2.03	5.74	2.37	6.37	2.75
42	3.23	1.21	3.86	1.50	4.49	1.79	4.80	1.96	5.11	2.13	5.74	2.52	6.37	2.91	
44	3.23	1.26	3.86	1.59	4.49	1.87	4.80	2.03	5.11	2.23	5.74	2.66	6.37	3.08	
46	3.23	1.32	3.86	1.66	4.49	1.94	4.80	2.11	5.11	2.34	5.74	2.75	6.37	3.25	
50%	10	2.70	0.61	3.23	0.71	3.74	0.81	4.00	0.87	4.26	0.92	4.77	1.03	5.31	1.15
	12	2.70	0.62	3.23	0.72	3.74	0.82	4.00	0.88	4.26	0.93	4.77	1.05	5.31	1.17
	14	2.70	0.63	3.23	0.73	3.74	0.83	4.00	0.89	4.26	0.95	4.77	1.07	5.31	1.19
	16	2.70	0.64	3.23	0.74	3.74	0.85	4.00	0.91	4.26	0.96	4.77	1.09	5.31	1.21
	18	2.70	0.65	3.23	0.75	3.74	0.86	4.00	0.92	4.26	0.98	4.77	1.10	5.31	1.23
	20	2.70	0.66	3.23	0.76	3.74	0.88	4.00	0.93	4.26	1.00	4.77	1.12	5.31	1.26
	21	2.70	0.66	3.23	0.77	3.74	0.88	4.00	0.94	4.26	1.01	4.77	1.14	5.31	1.27
	23	2.70	0.67	3.23	0.78	3.74	0.90	4.00	0.96	4.26	1.03	4.77	1.15	5.31	1.30
	25	2.70	0.68	3.23	0.79	3.74	0.92	4.00	0.98	4.26	1.06	4.77	1.21	5.31	1.38
	27	2.70	0.69	3.23	0.82	3.74	0.97	4.00	1.04	4.26	1.12	4.77	1.29	5.31	1.48
	29	2.70	0.73	3.23	0.87	3.74	1.03	4.00	1.11	4.26	1.20	4.77	1.37	5.31	1.57
	31	2.70	0.77	3.23	0.92	3.74	1.09	4.00	1.18	4.26	1.27	4.77	1.46	5.31	1.67
	33	2.70	0.82	3.23	0.98	3.74	1.15	4.00	1.25	4.26	1.35	4.77	1.55	5.31	1.78
	35	2.70	0.86	3.23	1.03	3.74	1.22	4.00	1.32	4.26	1.43	4.77	1.65	5.31	1.89
	37	2.70	0.91	3.23	1.09	3.74	1.29	4.00	1.40	4.26	1.51	4.77	1.75	5.31	2.01
	39	2.70	0.96	3.23	1.15	3.74	1.37	4.00	1.48	4.26	1.60	4.77	1.86	5.31	2.13
42	2.70	1.01	3.23	1.22	3.74	1.43	4.00	1.57	4.26	1.70	4.77	1.99	5.31	2.26	
44	2.70	1.06	3.23	1.28	3.74	1.50	4.00	1.66	4.26	1.74	4.77	2.12	5.31	2.39	
46	2.70	1.11	3.23	1.35	3.74	1.56	4.00	1.74	4.26	1.79	4.77	2.25	5.31	2.53	

Note:

- 1, is shown as reference
- 2, In cooling mode, avoid the outdoor air temperature range from 42-46 degree C, when selecting the models
- 3, The above table shows the average value of conditions may operate
- 4, It is recommended to connect less than 130%

Heating

Combinati on (%) (Capacity index)	Outdoor Air temperature(°C DB)		Indoor temperature(°C WB)											
			16		18		20		21		22		24	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
°C DB	°C	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	
130%	-19.8	-20	5.83	1.98	5.80	2.12	5.77	2.26	5.77	2.33	5.74	2.40	5.74	2.54
	-18.8	-19	5.91	2.02	5.89	2.16	5.89	2.30	5.86	2.37	5.86	2.43	5.83	2.57
	-16.7	-17	6.14	2.12	6.11	2.25	6.09	2.38	6.09	2.45	6.09	2.51	6.06	2.64
	-13.7	-15	6.40	2.21	6.37	2.34	6.34	2.47	6.34	2.53	6.31	2.60	6.31	2.72
	-11.8	-13	6.66	2.31	6.66	2.44	6.63	2.56	6.60	2.62	6.60	2.68	6.57	2.80
	-9.8	-11	6.97	2.41	6.94	2.53	6.91	2.65	6.91	2.71	6.91	2.76	6.89	2.88
	-9.5	-10	7.14	2.47	7.11	2.58	7.09	2.69	7.09	2.75	7.06	2.80	7.06	2.92
	-8.5	-9.1	7.29	2.51	7.26	2.62	7.26	2.73	7.23	2.79	7.23	2.84	7.20	2.95
	-7	-7.6	7.54	2.58	7.54	2.69	7.51	2.80	7.51	2.85	7.49	2.90	7.46	3.01
	-5	-5.6	7.94	2.68	7.91	2.78	7.89	2.88	7.89	2.93	7.86	2.98	7.86	3.08
	-3	-3.7	8.31	2.77	8.29	2.87	8.29	2.96	8.26	3.01	8.26	3.06	8.23	3.15
	0	-0.7	8.97	2.90	8.97	2.99	8.94	3.08	8.94	3.11	8.91	3.17	8.91	3.26
	3	2.2	9.68	3.02	9.66	3.11	9.63	3.19	9.63	3.23	9.63	3.27	9.60	3.35
	5	4.1	10.17	3.10	10.14	3.18	10.14	3.25	10.11	3.29	10.11	3.33	10.09	3.41
	7	6	10.69	3.17	10.66	3.24	10.66	3.32	10.63	3.36	10.63	3.39	10.20	3.26
9	7.9	11.23	3.24	11.20	3.31	11.20	3.38	11.17	3.41	10.94	3.34	10.20	3.06	
11	9.8	11.80	3.30	11.77	3.37	11.71	3.41	11.31	3.28	10.94	3.14	10.20	2.88	
13	11.8	12.43	3.36	12.40	3.43	11.71	3.20	11.31	3.07	10.94	2.95	10.20	2.71	
15	13.7	13.03	3.42	12.46	3.25	11.71	3.01	11.31	2.89	10.94	2.78	10.20	2.55	
120%	-19.8	-20	5.80	2.17	5.77	2.29	5.74	2.43	5.74	2.49	5.74	2.55	5.71	2.68
	-18.8	-19	5.89	2.21	5.86	2.33	5.86	2.46	5.83	2.52	5.83	2.59	5.80	2.72
	-16.7	-17	6.11	2.29	6.09	2.42	6.05	2.54	6.06	2.60	6.06	2.66	6.03	2.78
	-13.7	-15	6.37	2.39	6.34	2.50	6.31	2.62	6.31	2.68	6.31	2.74	6.29	2.85
	-11.8	-13	6.63	2.48	6.63	2.59	6.60	2.70	6.60	2.76	6.57	2.81	6.57	2.93
	-9.8	-11	6.94	2.57	6.91	2.68	6.91	2.79	6.89	2.84	6.89	2.89	6.86	3.00
	-9.5	-10	7.12	2.62	7.09	2.72	7.06	2.83	7.06	2.88	7.06	2.93	7.03	3.04
	-8.5	-9.1	7.26	2.66	7.23	2.76	7.23	2.86	7.20	2.91	7.20	2.97	7.17	3.07
	-7	-7.6	7.51	2.73	7.51	2.83	7.49	2.92	7.49	2.97	7.46	3.02	7.46	3.12
	-5	-5.6	7.91	2.81	7.89	2.91	7.86	3.00	7.86	3.05	7.86	3.10	7.83	3.19
	-3	-3.7	8.29	2.90	8.29	2.99	8.26	3.08	8.26	3.12	8.23	3.17	8.23	3.25
	0	-0.7	8.94	3.02	8.94	3.11	8.91	3.19	8.91	3.23	8.89	3.27	8.89	3.35
	3	2.2	9.66	3.13	9.63	3.21	9.63	3.29	9.60	3.33	9.60	3.36	9.40	3.35
	5	4.1	10.14	3.20	10.11	3.28	10.11	3.35	10.09	3.39	10.09	3.42	9.40	3.14
	7	6	10.66	3.27	10.66	3.34	10.63	3.41	10.46	3.36	10.11	3.22	9.40	2.96
9	7.9	11.20	3.33	11.17	3.40	10.80	3.29	10.46	3.16	10.11	3.03	9.40	2.78	
11	9.8	11.77	3.39	11.49	3.33	10.80	3.09	10.46	2.97	10.11	2.85	9.40	2.62	
13	11.8	12.20	3.36	11.49	3.13	10.80	2.90	10.46	2.79	10.11	2.68	9.40	2.47	
15	13.7	12.20	3.16	11.49	2.95	10.80	2.73	10.46	2.63	10.11	2.53	9.40	2.33	
110%	-19.8	-20	5.77	2.36	5.74	2.47	5.71	2.59	5.71	2.65	5.72	2.71	5.69	2.83
	-18.8	-19	5.86	2.39	5.83	2.51	5.83	2.63	5.83	2.68	5.80	2.74	5.80	2.86
	-16.7	-17	6.09	2.47	6.06	2.59	6.14	2.70	6.03	2.75	6.03	2.81	6.00	2.92
	-13.7	-15	6.34	2.56	6.32	2.67	6.29	2.77	6.29	2.83	6.29	2.88	6.26	2.99
	-11.8	-13	6.60	2.64	6.60	2.75	6.57	2.85	6.57	2.90	6.54	2.95	6.54	3.05
	-9.8	-11	6.91	2.73	6.89	2.83	6.89	2.92	6.86	2.97	6.86	3.02	6.86	3.12
	-9.5	-10	7.09	2.77	7.06	2.87	7.03	2.96	7.03	3.01	7.03	3.06	7.00	3.15
	-8.5	-9.1	7.23	2.81	7.20	2.90	7.20	3.00	7.17	3.04	7.17	3.09	7.17	2.82
	-7	-7.6	7.49	2.87	7.49	2.96	7.46	3.05	7.46	3.10	7.46	3.14	7.43	3.23
	-5	-5.6	7.89	2.95	7.86	3.04	7.83	3.12	7.83	3.17	7.83	3.21	7.80	3.30
	-3	-3.7	8.26	3.03	8.26	3.11	8.23	3.19	8.23	3.23	8.20	3.27	8.20	3.36
	0	-0.7	8.91	3.14	8.91	3.22	8.89	3.29	8.89	3.33	8.89	3.37	8.63	3.31
	3	2.2	9.63	3.25	9.60	3.32	9.60	3.39	9.57	3.42	9.26	3.28	8.63	3.01
	5	4.1	10.11	3.31	10.11	3.38	9.91	3.35	9.57	3.21	9.26	3.08	8.63	2.83
	7	6	10.63	3.37	10.54	3.39	9.91	3.14	9.57	3.02	9.26	2.90	8.63	2.66
9	7.9	11.17	3.43	10.54	3.19	9.91	2.96	9.57	2.84	9.26	2.73	8.63	2.51	
11	9.8	11.17	3.22	10.54	3.00	9.91	2.78	9.57	2.68	9.26	2.57	8.63	2.37	
13	11.8	11.17	3.02	10.54	2.81	9.91	2.61	9.57	2.52	9.26	2.42	8.63	2.23	
15	13.7	11.17	2.68	10.54	2.65	9.91	2.47	9.57	2.37	9.26	2.29	8.63	2.11	
100%	-19.8	-20	5.74	2.55	5.71	2.65	5.71	2.76	5.69	2.81	5.69	2.87	5.66	2.97
	-18.8	-19	5.83	2.58	5.83	2.68	5.80	2.79	5.80	2.84	5.77	2.90	5.77	3.00
	-16.7	-17	6.06	2.65	6.03	2.75	6.03	2.85	6.00	2.91	6.00	2.96	6.00	3.06

	-13.7	-15	6.31	2.73	6.29	2.83	6.26	2.92	6.26	2.97	6.26	3.02	6.23	3.12
	-11.8	-13	6.57	2.81	6.57	2.90	6.54	2.99	6.54	3.04	6.54	3.09	6.51	3.18
	-9.8	-11	6.89	2.88	6.86	2.97	6.86	3.06	6.86	3.11	6.83	3.15	6.83	3.24
	-9.5	-10	7.06	2.92	7.03	3.01	7.03	3.10	7.00	3.14	7.00	3.19	6.97	3.27
	-8.5	-9.1	7.20	2.96	7.17	3.04	7.17	3.13	7.17	3.17	7.14	3.21	7.14	3.30
	-7	-7.6	7.46	3.01	7.46	3.10	7.43	3.18	7.43	3.22	7.43	3.26	7.40	3.35
	-5	-5.6	7.86	3.09	7.83	3.17	7.83	3.25	7.80	3.28	7.80	3.32	7.77	3.40
	-3	-3.7	8.23	3.16	8.23	2.87	8.20	3.31	8.20	3.35	8.20	3.38	7.86	3.24
	0	-0.7	8.89	3.26	8.89	3.33	8.86	3.40	8.71	3.35	8.43	3.21	7.86	2.94
	3	2.2	9.60	3.36	9.57	3.42	9.00	3.16	8.71	3.04	8.43	2.92	7.86	2.68
	5	4.1	10.09	3.42	9.57	3.21	9.00	2.97	8.71	2.86	8.43	2.75	7.86	2.53
	7	6	10.14	3.24	9.57	3.02	9.00	2.80	8.71	2.69	8.43	2.59	7.86	2.38
	9	7.9	10.14	3.05	9.57	2.84	9.00	2.64	8.71	2.51	8.43	2.44	7.86	2.25
	11	9.8	10.14	2.87	9.57	2.68	9.00	2.49	8.71	2.39	8.43	2.30	7.86	2.12
	13	11.8	10.14	2.69	9.57	2.52	9.00	2.34	8.71	2.25	8.43	2.17	7.86	2.00
15	13.7	10.14	2.54	9.57	2.37	9.00	2.21	8.71	2.13	8.43	2.05	7.86	1.90	
90%	-19.8	-20	5.70	2.73	5.68	2.83	5.68	2.93	5.65	2.97	5.65	3.03	5.65	3.12
	-18.8	-19	5.79	2.76	5.79	2.86	5.76	2.96	5.76	3.00	5.76	3.05	5.73	3.15
	-16.7	-17	6.02	2.83	5.99	2.92	5.99	3.01	5.99	3.06	5.96	3.11	5.96	3.20
	-13.7	-15	6.27	2.90	6.25	2.99	6.25	3.08	6.22	3.12	6.22	3.16	6.22	3.25
	-11.8	-13	6.53	2.97	6.53	3.05	6.50	3.14	6.50	3.18	6.50	3.22	6.47	3.31
	-9.8	-11	6.85	3.04	6.85	3.12	6.82	3.20	6.82	3.24	6.82	3.28	6.79	3.36
	-9.5	-10	7.02	3.08	6.99	3.16	6.99	3.23	6.96	3.27	6.96	3.31	6.96	3.39
	-8.5	-9.1	7.16	3.11	7.16	3.19	7.13	3.26	7.13	3.30	7.13	3.34	7.04	3.37
	-7	-7.6	7.42	3.16	7.42	3.23	7.39	3.31	7.39	3.35	7.39	3.38	7.04	3.22
	-5	-5.6	7.81	3.23	7.79	3.30	7.79	3.37	7.76	3.40	7.56	3.30	7.04	3.03
	-3	-3.7	8.19	3.29	8.19	3.36	8.10	3.37	7.81	3.24	7.56	3.11	7.04	2.85
	0	-0.7	8.87	3.39	8.61	3.30	8.10	3.06	7.81	2.94	7.56	2.82	7.04	2.59
	3	2.2	9.13	3.23	8.61	3.00	8.10	2.79	7.81	2.68	7.56	2.57	7.04	2.37
	5	4.1	9.13	3.03	8.61	2.83	8.10	2.63	7.81	2.52	7.56	2.43	7.04	2.24
	7	6	9.13	2.85	8.61	2.66	8.10	2.47	7.81	2.38	7.56	2.29	7.04	2.11
9	7.9	9.13	2.69	8.61	2.51	8.10	2.33	7.81	2.25	7.56	2.16	7.04	2.00	
11	9.8	9.13	2.53	8.61	2.36	8.10	2.20	7.81	2.12	7.56	2.04	7.04	1.89	
13	11.8	9.13	2.38	8.61	2.23	8.10	2.08	7.81	2.00	7.56	1.93	7.04	1.79	
15	13.7	9.13	2.25	8.61	2.11	8.10	1.97	7.81	1.90	7.56	1.83	7.04	1.69	
80%	-19.8	-20	5.69	2.92	5.66	3.01	5.66	3.09	5.66	3.14	5.63	3.18	5.63	3.27
	-18.8	-19	5.77	2.95	5.77	3.04	5.74	3.12	5.74	3.16	5.74	3.20	5.71	3.29
	-16.7	-17	6.00	3.01	5.97	3.09	5.97	3.17	5.97	3.21	5.97	3.25	5.94	3.33
	-13.7	-15	6.26	3.07	6.23	3.15	6.23	3.23	6.23	3.27	6.20	3.31	6.20	3.39
	-11.8	-13	6.51	3.13	6.51	3.21	6.49	3.28	6.49	3.32	6.49	3.36	6.29	3.27
	-9.8	-11	6.83	3.20	6.83	3.27	6.80	3.34	6.80	3.37	6.74	3.37	6.29	3.09
	-9.5	-10	7.00	3.23	6.97	3.30	6.97	3.37	6.97	3.40	6.74	3.27	6.29	3.00
	-8.5	-9.1	7.14	3.26	6.64	3.33	7.11	3.39	6.97	3.32	6.74	3.18	6.29	2.92
	-7	-7.6	7.40	3.31	7.40	3.37	7.20	3.30	6.97	3.17	6.74	3.04	6.29	2.79
	-5	-5.6	7.80	3.36	7.66	3.35	7.20	3.10	6.97	2.98	6.74	2.86	6.29	2.63
	-3	-3.7	8.11	3.38	7.66	3.15	7.20	2.92	6.97	2.81	6.74	2.69	6.29	2.48
	0	-0.7	8.11	3.07	7.66	2.86	7.20	2.65	6.97	2.56	6.74	2.45	6.29	2.26
	3	2.2	8.11	2.80	7.66	2.61	7.20	2.43	6.97	2.33	6.74	2.25	6.29	2.07
	5	4.1	8.11	2.63	7.66	2.46	7.20	2.29	6.97	2.20	6.74	2.12	6.29	1.96
	7	6	8.11	2.48	7.66	2.32	7.20	2.16	6.97	2.08	6.74	2.01	6.29	1.85
9	7.9	8.11	2.34	7.66	2.19	7.20	2.04	6.97	1.97	6.74	1.90	6.29	1.76	
11	9.8	8.11	2.21	7.66	2.07	7.20	1.93	6.97	1.86	6.74	1.80	6.29	1.67	
13	11.8	8.11	2.08	7.66	1.95	7.20	1.83	6.97	1.76	6.74	1.70	6.29	1.57	
15	13.7	8.11	1.97	7.66	1.85	7.20	1.73	6.97	1.67	6.74	1.61	6.29	1.50	
70%	-19.8	-20	5.64	3.11	5.62	3.19	5.62	3.26	5.62	3.30	5.62	3.34	5.47	3.30
	-18.8	-19	5.73	3.14	5.73	3.21	5.70	3.28	5.70	3.32	5.70	3.36	5.47	3.23
	-16.7	-17	5.96	3.19	5.96	3.26	5.93	3.33	5.93	3.37	5.87	3.00	5.47	3.08
	-13.7	-15	6.21	3.24	6.19	3.31	6.19	3.38	6.07	3.33	5.87	3.20	5.47	2.93
	-11.8	-13	6.47	3.30	6.47	3.36	6.30	3.28	6.07	3.16	5.87	3.03	5.47	2.78
	-9.8	-11	6.78	3.35	6.70	3.35	6.30	3.10	6.07	2.98	5.87	2.86	5.47	2.63
	-9.5	-10	6.96	3.38	6.70	3.25	6.30	3.01	6.07	2.89	5.87	2.78	5.47	2.56
	-8.5	-9.1	7.10	3.40	6.70	3.16	6.30	2.93	6.07	2.82	5.87	2.71	5.47	2.49
	-7	-7.6	7.10	3.25	6.70	3.02	6.30	2.80	6.07	2.70	5.87	2.59	5.47	2.39
	-5	-5.6	7.10	3.05	6.70	2.84	6.30	2.64	6.07	2.54	5.87	3.00	5.47	2.25
-3	-3.7	7.10	2.87	6.70	2.68	6.30	2.49	6.07	2.40	5.87	2.31	5.47	2.13	

	0	-0.7	7.10	2.61	6.70	2.44	6.30	2.27	6.07	2.19	5.87	2.11	5.47	1.95
	3	2.2	7.10	2.39	6.70	2.24	6.30	2.08	6.07	2.01	5.87	1.93	5.47	1.79
	5	4.1	7.10	2.25	6.70	2.11	6.30	1.97	6.07	1.90	5.87	1.83	5.47	1.69
	7	6	7.10	2.13	6.70	2.00	6.30	1.86	6.07	1.80	5.87	1.73	5.47	1.61
	9	7.9	7.10	2.01	6.70	1.89	6.30	1.76	6.07	1.70	5.87	1.64	5.47	1.52
	11	9.8	7.10	1.91	6.70	1.79	6.30	1.67	6.07	1.61	5.87	1.56	5.47	1.45
	13	11.8	7.10	1.80	6.70	1.69	6.30	1.58	6.07	1.53	5.87	1.48	5.47	1.37
	15	13.7	7.10	1.71	6.70	1.60	6.30	1.50	6.07	1.45	5.87	1.40	5.47	1.31
60%	-19.8	-20	5.63	3.30	5.60	3.36	5.40	3.24	5.23	3.11	5.06	2.99	4.71	2.74
	-18.8	-19	5.71	3.32	5.71	3.39	5.40	3.17	5.23	3.04	5.06	2.92	4.71	2.68
	-16.7	-17	5.94	3.37	5.74	3.26	5.40	3.02	5.23	2.91	5.06	2.79	4.71	2.56
	-13.7	-15	6.09	3.33	5.74	3.10	5.40	2.87	5.23	2.76	5.06	2.65	4.71	2.44
	-11.8	-13	6.09	3.15	5.74	2.93	5.40	2.72	5.23	2.62	5.06	2.52	4.71	2.33
	-9.8	-11	6.09	2.98	5.74	2.77	5.40	2.58	5.23	2.48	5.06	2.39	4.71	2.20
	-9.5	-10	6.09	2.89	5.74	2.70	5.40	2.51	5.23	2.41	5.06	2.32	4.71	2.14
	-8.5	-9.1	6.09	2.82	5.74	2.63	5.40	2.44	5.23	2.35	5.06	2.26	4.71	2.09
	-7	-7.6	6.09	2.69	5.74	2.52	5.40	2.34	5.23	2.25	5.06	2.17	4.71	2.00
	-5	-5.6	6.09	2.54	5.74	2.37	5.40	2.21	5.23	2.13	5.06	2.05	4.71	1.89
	-3	-3.7	6.09	2.40	5.74	2.24	5.40	2.09	5.23	2.01	5.06	1.94	4.71	1.79
	0	-0.7	6.09	2.19	5.74	2.05	5.40	1.91	5.23	1.85	5.06	1.78	4.71	1.65
	3	2.2	6.09	2.01	5.74	1.88	5.40	1.76	5.23	1.70	5.06	1.64	4.71	1.52
	5	4.1	6.09	1.90	5.74	1.78	5.40	1.67	5.23	1.61	5.06	1.55	4.71	1.44
	7	6	6.09	1.80	5.74	1.69	5.40	1.58	5.23	1.53	5.06	1.48	4.71	1.37
	9	7.9	6.09	1.70	5.74	1.60	5.40	1.50	5.23	1.45	5.06	1.40	4.71	1.31
	11	9.8	6.09	1.61	5.74	1.52	5.40	1.43	5.23	1.38	5.06	1.33	4.71	1.24
	13	11.8	6.09	1.53	5.74	1.44	5.40	1.35	5.23	1.31	5.06	1.27	4.71	1.18
15	13.7	6.09	1.45	5.74	1.37	5.40	1.29	5.23	1.25	5.06	1.21	4.71	1.13	
50%	-19.8	-20	5.07	3.00	4.78	2.80	4.50	2.60	4.33	2.50	4.19	2.40	3.90	2.21
	-18.8	-19	5.07	2.94	4.78	2.74	4.50	2.55	4.33	2.45	4.19	2.35	3.90	2.17
	-16.7	-17	5.07	2.80	4.78	2.61	4.50	2.43	4.33	2.34	4.19	2.25	3.90	2.08
	-13.7	-15	5.07	2.67	4.78	2.49	4.50	2.32	4.33	2.23	4.19	2.15	3.90	1.99
	-11.8	-13	5.07	2.53	4.78	2.37	4.50	2.20	4.33	2.12	4.19	2.04	3.90	1.89
	-9.8	-11	5.07	2.40	4.78	2.24	4.50	2.09	4.33	2.01	4.19	1.94	3.90	1.80
	-9.5	-10	5.07	2.33	4.78	2.18	4.50	2.04	4.33	1.96	4.19	1.89	3.90	1.75
	-8.5	-9.1	5.07	2.28	4.78	2.13	4.50	1.99	4.33	1.92	4.19	1.85	3.90	1.71
	-7	-7.6	5.07	2.18	4.78	2.04	4.50	1.91	4.33	1.84	4.19	1.77	3.90	1.64
	-5	-5.6	5.07	2.06	4.78	1.93	4.50	1.80	4.33	1.74	4.19	1.68	3.90	1.56
	-3	-3.7	5.07	1.95	4.78	1.83	4.50	1.71	4.33	1.65	4.19	1.59	3.90	1.48
	0	-0.7	5.07	1.79	4.78	1.68	4.50	1.57	4.33	1.52	4.19	1.47	3.90	1.37
	3	2.2	5.07	1.65	4.78	1.55	4.50	1.45	4.33	1.40	4.19	1.36	3.90	1.27
	5	4.1	5.07	1.56	4.78	1.47	4.50	1.38	4.33	1.33	4.19	1.29	3.90	1.20
	7	6	5.07	1.48	4.78	1.40	4.50	1.31	4.33	1.27	4.19	1.23	3.90	1.15
	9	7.9	5.07	1.41	4.78	1.33	4.50	1.25	4.33	1.21	4.19	1.17	3.90	1.09
	11	9.8	5.07	1.34	4.78	1.26	4.50	1.19	4.33	1.15	4.19	1.12	3.90	1.04
	13	11.8	5.07	1.27	4.78	1.20	4.50	1.13	4.33	1.10	4.19	1.06	3.90	1.00
15	13.7	5.07	1.21	4.78	1.15	4.50	1.08	4.33	1.05	4.19	1.01	3.90	0.95	

Note:

- 1, is shown as reference
- 2, In heating mode, avoid the outdoor air temperature range from -15 to -20 degree C, when selecting the models
- 3, The above table shows the average value of conditions may operate
- 4, It is recommended to connect less than 130%

38VR004H10201S

Cooling

Combination (%) (Capacity index)	Outdoor Air temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
130%	10	8.79	1.73	10.46	2.11	12.14	2.51	12.61	2.57	12.75	2.52	13.07	2.41	13.39	2.30
	12	8.79	1.76	10.46	2.15	12.14	2.56	12.43	2.55	12.61	2.50	12.89	2.39	13.21	2.36
	14	8.79	1.79	10.46	2.19	12.11	2.59	12.29	2.56	12.43	2.49	12.75	2.47	13.07	2.49
	16	8.79	1.82	10.46	2.24	11.96	2.58	12.11	2.54	12.25	2.57	12.57	2.60	12.89	2.62
	18	8.79	1.86	10.46	2.28	11.79	2.68	11.93	2.69	12.11	2.71	12.43	2.73	12.75	2.76
	20	8.79	1.90	10.46	2.43	11.61	2.81	11.79	2.83	11.93	2.84	12.25	2.87	12.57	2.90
	21	8.79	1.95	10.46	2.52	11.54	2.88	11.71	2.89	11.86	2.91	12.18	2.94	12.50	2.96
	23	8.79	2.09	10.46	2.70	11.39	3.01	11.54	3.02	11.68	3.04	12.00	3.07	12.32	3.10
	25	8.79	2.23	10.46	2.89	11.21	3.14	11.36	3.15	11.54	3.17	11.86	3.20	12.18	3.23
	27	8.79	2.39	10.46	3.09	11.07	3.27	11.21	3.29	11.36	3.31	11.68	3.34	12.00	3.38
	29	8.79	2.55	10.46	3.31	10.89	3.40	11.04	3.42	11.21	3.44	11.54	3.48	11.86	3.51
	31	8.79	2.72	10.43	3.50	10.71	3.54	10.89	3.56	11.04	3.57	11.36	3.61	11.68	3.65
	33	8.79	2.90	10.25	3.63	10.57	3.67	10.71	3.69	10.89	3.71	11.21	3.75	11.50	3.79
	35	8.79	3.09	10.07	3.76	10.39	3.81	10.57	3.83	10.71	3.85	11.04	3.89	11.36	3.93
	37	8.79	3.29	9.93	3.90	10.25	3.94	10.39	3.96	10.57	3.99	10.86	4.03	11.18	4.08
	39	8.79	3.50	9.75	3.94	10.07	4.07	10.25	4.10	10.39	4.12	10.71	4.17	11.04	4.22
42	8.79	3.68	9.65	3.98	9.97	4.11	10.14	4.14	10.29	4.16	10.61	4.18	10.61	4.26	
44	8.79	3.87	9.55	4.01	9.86	4.13	10.04	4.18	10.08	4.17	10.22	4.19	10.36	4.28	
46	8.79	4.06	9.51	4.05	9.75	4.19	9.93	4.19	9.99	4.20	10.04	4.21	10.20	4.42	
120%	10	8.11	1.58	9.64	1.93	11.21	2.29	12.00	2.48	12.57	2.58	12.86	2.48	13.14	2.39
	12	8.11	1.61	9.64	1.96	11.21	2.33	12.00	2.52	12.39	2.57	12.68	2.47	12.96	2.37
	14	8.11	1.64	9.64	2.00	11.21	2.38	12.00	2.57	12.21	2.55	12.54	2.46	12.82	2.47
	16	8.11	1.67	9.64	2.04	11.21	2.43	11.93	2.59	12.07	2.56	12.36	2.58	12.64	2.60
	18	8.11	1.70	9.64	2.08	11.21	2.51	11.75	2.68	11.89	2.69	12.18	2.71	12.50	2.74
	20	8.11	1.73	9.64	2.16	11.21	2.70	11.61	2.81	11.75	2.82	12.04	2.85	12.32	2.87
	21	8.11	1.75	9.64	2.24	11.21	2.79	11.50	2.88	11.64	2.89	11.96	2.91	12.25	2.94
	23	8.11	1.87	9.64	2.40	11.21	2.99	11.36	3.00	11.50	3.02	11.79	3.05	12.07	3.07
	25	8.11	2.00	9.64	2.57	11.04	3.12	11.18	3.13	11.32	3.15	11.64	3.18	11.93	3.21
	27	8.11	2.13	9.64	2.74	10.89	3.25	11.04	3.27	11.18	3.29	11.46	3.32	11.75	3.35
	29	8.11	2.27	9.64	2.93	10.71	3.38	10.86	3.40	11.00	3.42	11.29	3.45	11.61	3.48
	31	8.11	2.43	9.64	3.13	10.54	3.52	10.71	3.53	10.86	3.55	11.14	3.59	11.43	3.62
	33	8.11	2.58	9.64	3.34	10.39	3.65	10.54	3.67	10.68	3.68	10.96	3.72	11.25	3.76
	35	8.11	2.75	9.64	3.56	10.21	3.78	10.36	3.80	10.54	3.82	10.82	3.86	11.11	3.90
	37	8.11	2.93	9.64	3.79	10.07	3.92	10.21	3.94	10.36	3.96	10.64	4.00	10.93	4.04
	39	8.11	3.11	9.61	4.00	9.89	4.05	10.04	4.07	10.18	4.09	10.50	4.14	10.79	4.18
42	8.11	3.23	9.50	4.04	9.79	4.09	9.93	4.11	10.08	4.13	10.40	4.15	10.37	4.22	
44	8.11	3.27	9.45	4.08	9.69	4.12	9.83	4.12	9.97	4.14	10.09	4.17	10.25	4.37	
46	8.11	3.30	9.40	4.12	9.60	4.16	9.73	4.19	9.90	4.20	9.98	4.18	10.16	4.41	
110%	10	7.43	1.43	8.86	1.74	10.29	2.07	11.00	2.24	11.71	2.41	12.61	2.56	12.89	2.47
	12	7.43	1.46	8.86	1.78	10.29	2.11	11.00	2.28	11.71	2.46	12.47	2.55	12.71	2.46
	14	7.43	1.49	8.86	1.81	10.29	2.15	11.00	2.32	11.71	2.50	12.29	2.53	12.57	2.45
	16	7.43	1.51	8.86	1.84	10.29	2.19	11.00	2.37	11.71	2.55	12.14	2.56	12.39	2.59
	18	7.43	1.54	8.86	1.88	10.29	2.24	11.00	2.44	11.71	2.67	11.96	2.69	12.25	2.72
	20	7.43	1.57	8.86	1.92	10.29	2.37	11.00	2.62	11.54	2.81	11.82	2.83	12.07	2.85
	21	7.43	1.59	8.86	1.98	10.29	2.46	11.00	2.71	11.46	2.87	11.72	2.89	12.00	2.92
	23	7.43	1.66	8.86	2.12	10.29	2.63	11.00	2.91	11.29	3.00	11.57	3.03	11.82	3.05
	25	7.43	1.77	8.86	2.26	10.29	2.82	11.00	3.12	11.14	3.13	11.39	3.16	11.68	3.18
	27	7.43	1.89	8.86	2.42	10.29	3.01	10.82	3.25	10.96	3.26	11.25	3.29	11.50	3.32
	29	7.43	2.02	8.86	2.58	10.29	3.22	10.68	3.38	10.82	3.40	11.07	3.43	11.36	3.46
	31	7.43	2.15	8.86	2.75	10.29	3.44	10.50	3.51	10.64	3.53	10.93	3.56	11.18	3.59
	33	7.43	2.28	8.86	2.94	10.21	3.62	10.36	3.64	10.50	3.66	10.75	3.69	11.04	3.73
	35	7.43	2.43	8.86	3.13	10.04	3.76	10.18	3.78	10.32	3.80	10.57	3.83	10.86	3.87
	37	7.43	2.59	8.86	3.33	9.89	3.89	10.04	3.91	10.14	3.93	10.43	3.97	10.68	4.00
	39	7.43	2.75	8.86	3.55	9.71	4.02	9.86	4.04	10.00	4.06	10.25	4.10	10.54	4.14
42	7.43	2.79	8.86	3.59	9.61	4.06	9.76	4.08	9.90	4.10	10.08	4.14	10.11	4.18	
44	7.43	2.82	8.86	3.62	9.51	4.10	9.65	4.12	9.80	4.14	9.98	4.15	10.01	4.33	

	46	7.43	2.90	8.86	3.66	9.42	4.14	9.55	4.18	9.72	4.18	9.87	4.37	9.93	4.38
100%	10	6.75	1.29	8.04	1.57	9.36	1.85	10.00	2.01	10.64	2.16	11.96	2.47	12.64	2.55
	12	6.75	1.31	8.04	1.60	9.36	1.89	10.00	2.04	10.64	2.20	11.96	2.51	12.46	2.54
	14	6.75	1.34	8.04	1.63	9.36	1.93	10.00	2.08	10.64	2.24	11.96	2.56	12.32	2.52
	16	6.75	1.36	8.04	1.66	9.36	1.97	10.00	2.12	10.64	2.28	11.89	2.59	12.14	2.57
	18	6.75	1.39	8.04	1.69	9.36	2.00	10.00	2.16	10.64	2.33	11.75	2.68	12.00	2.70
	20	6.75	1.42	8.04	1.72	9.36	2.06	10.00	2.27	10.64	2.50	11.57	2.81	11.82	2.83
	21	6.75	1.43	8.04	1.74	9.36	2.14	10.00	2.36	10.64	2.58	11.50	2.87	11.75	2.90
	23	6.75	1.47	8.04	1.85	9.36	2.29	10.00	2.52	10.64	2.77	11.36	3.00	11.57	3.03
	25	6.75	1.56	8.04	1.98	9.36	2.45	10.00	2.70	10.64	2.97	11.18	3.13	11.43	3.16
	27	6.75	1.67	8.04	2.11	9.36	2.62	10.00	2.89	10.64	3.17	11.00	3.26	11.25	3.30
	29	6.75	1.77	8.04	2.25	9.36	2.79	10.00	3.09	10.61	3.37	10.86	3.40	11.11	3.43
	31	6.75	1.89	8.04	2.41	9.36	2.98	10.00	3.30	10.46	3.50	10.68	3.53	10.93	3.56
	33	6.75	2.01	8.04	2.56	9.36	3.18	10.00	3.52	10.29	3.63	10.54	3.66	10.79	3.70
	35	6.75	2.13	8.04	2.72	9.36	3.39	10.00	3.88	10.11	3.77	10.36	3.80	10.61	3.83
	37	6.75	2.27	8.04	2.90	9.36	3.61	9.82	3.88	9.96	3.90	10.21	3.94	10.43	3.97
	39	6.75	2.41	8.04	3.08	9.36	3.85	9.68	4.01	9.79	4.03	10.04	4.07	10.29	4.11
42	6.75	2.56	8.04	3.23	9.36	4.03	9.48	4.05	9.69	4.12	9.80	4.16	10.09	4.22	
44	6.75	2.71	8.04	3.38	9.36	4.09	9.28	4.13	9.60	4.15	10.04	4.22	9.83	4.26	
46	6.75	2.86	8.04	3.53	9.36	4.17	9.08	4.16	9.59	4.27	9.64	4.29	9.69	4.33	
90%	10	6.07	1.16	7.25	1.39	8.43	1.65	9.00	1.78	9.57	1.91	10.75	2.18	11.93	2.46
	12	6.07	1.18	7.25	1.42	8.43	1.68	9.00	1.81	9.57	1.95	10.75	2.22	11.93	2.51
	14	6.07	1.20	7.25	1.45	8.43	1.71	9.00	1.84	9.57	1.98	10.75	2.26	11.93	2.55
	16	6.07	1.22	7.25	1.47	8.43	1.74	9.00	1.88	9.57	2.02	10.75	2.31	11.89	2.60
	18	6.07	1.24	7.25	1.50	8.43	1.77	9.00	1.92	9.57	2.06	10.75	2.35	11.75	2.68
	20	6.07	1.26	7.25	1.54	8.43	1.81	9.00	1.96	9.57	2.14	10.75	2.53	11.57	2.80
	21	6.07	1.27	7.25	1.55	8.43	1.84	9.00	2.02	9.57	2.21	10.75	2.62	11.50	2.87
	23	6.07	1.30	7.25	1.61	8.43	1.97	9.00	2.17	9.57	2.38	10.75	2.81	11.32	3.00
	25	6.07	1.37	7.25	1.72	8.43	2.11	9.00	2.32	9.57	2.54	10.75	3.01	11.18	3.13
	27	6.07	1.46	7.25	1.83	8.43	2.25	9.00	2.48	9.57	2.71	10.75	3.22	11.00	3.26
	29	6.07	1.55	7.25	1.95	8.43	2.40	9.00	2.64	9.57	2.90	10.64	3.37	10.86	3.40
	31	6.07	1.65	7.25	2.08	8.43	2.56	9.00	2.82	9.57	3.09	10.46	3.50	10.68	3.53
	33	6.07	1.75	7.25	2.21	8.43	2.73	9.00	3.01	9.57	3.30	10.32	3.64	10.54	3.66
	35	6.07	1.86	7.25	2.35	8.43	2.91	9.00	3.20	9.57	3.52	10.14	3.77	10.36	3.80
	37	6.07	1.97	7.25	2.50	8.43	3.09	9.00	3.41	9.57	3.75	9.96	3.90	10.21	3.93
	39	6.07	2.09	7.25	2.66	8.43	3.29	9.00	3.63	9.57	3.99	9.82	4.04	10.04	4.07
42	6.07	2.19	7.25	2.82	8.43	3.45	9.00	3.76	9.57	4.02	9.73	4.17	9.95	4.20	
44	6.07	2.35	7.25	2.98	8.43	3.61	9.00	3.89	9.57	4.18	9.68	4.21	9.82	4.26	
46	6.07	2.48	7.25	3.11	8.43	3.74	9.00	4.02	9.57	4.25	9.62	4.26	9.64	4.31	
80%	10	5.39	1.03	6.43	1.23	7.46	1.45	8.00	1.56	8.54	1.67	9.57	1.91	10.61	2.15
	12	5.39	1.04	6.43	1.25	7.46	1.47	8.00	1.59	8.54	1.70	9.57	1.94	10.61	2.19
	14	5.39	1.06	6.43	1.27	7.46	1.50	8.00	1.61	8.54	1.73	9.57	1.98	10.61	2.23
	16	5.39	1.08	6.43	1.29	7.46	1.53	8.00	1.64	8.54	1.76	9.57	2.02	10.61	2.27
	18	5.39	1.10	6.43	1.32	7.46	1.56	8.00	1.68	8.54	1.80	9.57	2.06	10.61	2.31
	20	5.39	1.12	6.43	1.34	7.46	1.59	8.00	1.71	8.54	1.83	9.57	2.13	10.61	2.48
	21	5.39	1.13	6.43	1.35	7.46	1.60	8.00	1.73	8.54	1.88	9.57	2.21	10.61	2.57
	23	5.39	1.15	6.43	1.38	7.46	1.68	8.00	1.84	8.54	2.01	9.57	2.37	10.61	2.75
	25	5.39	1.18	6.43	1.47	7.46	1.79	8.00	1.97	8.54	2.14	9.57	2.53	10.61	2.95
	27	5.39	1.26	6.43	1.57	7.46	1.91	8.00	2.10	8.54	2.29	9.57	2.70	10.61	3.15
	29	5.39	1.34	6.43	1.67	7.46	2.04	8.00	2.23	8.54	2.45	9.57	2.89	10.61	3.37
	31	5.39	1.42	6.43	1.77	7.46	2.17	8.00	2.38	8.54	2.61	9.57	3.08	10.43	3.50
	33	5.39	1.51	6.43	1.89	7.46	2.31	8.00	2.54	8.54	2.77	9.57	3.29	10.29	3.63
	35	5.39	1.60	6.43	2.01	7.46	2.46	8.00	2.70	8.54	2.96	9.57	3.50	10.11	3.77
	37	5.39	1.70	6.43	2.13	7.46	2.61	8.00	2.88	8.54	3.15	9.57	3.73	9.96	3.90
	39	5.39	1.80	6.43	2.27	7.46	2.78	8.00	3.06	8.54	3.35	9.57	3.98	9.79	4.03
42	5.39	1.85	6.43	2.30	7.46	2.83	8.00	3.17	8.54	3.43	9.57	4.11	9.71	4.13	
44	5.39	1.93	6.43	2.32	7.46	2.89	8.00	3.22	8.54	3.49	9.57	4.14	9.63	4.17	
46	5.39	1.96	6.43	2.35	7.46	2.94	8.00	3.30	8.54	3.55	9.57	4.20	9.55	4.26	
70%	10	4.71	0.90	5.64	1.07	6.54	1.25	7.00	1.34	7.46	1.44	8.36	1.64	9.29	1.84
	12	4.71	0.91	5.64	1.09	6.54	1.27	7.00	1.37	7.46	1.47	8.36	1.67	9.29	1.88
	14	4.71	0.93	5.64	1.11	6.54	1.29	7.00	1.39	7.46	1.49	8.36	1.70	9.29	1.91
	16	4.71	0.95	5.64	1.13	6.54	1.32	7.00	1.42	7.46	1.52	8.36	1.73	9.29	1.95

	18	4.71	0.96	5.64	1.15	6.54	1.34	7.00	1.45	7.46	1.55	8.36	1.76	9.29	1.99
	20	4.71	0.98	5.64	1.17	6.54	1.37	7.00	1.47	7.46	1.58	8.36	1.80	9.29	2.04
	21	4.71	0.99	5.64	1.18	6.54	1.38	7.00	1.49	7.46	1.59	8.36	1.82	9.29	2.11
	23	4.71	1.00	5.64	1.20	6.54	1.41	7.00	1.54	7.46	1.67	8.36	1.96	9.29	2.26
	25	4.71	1.02	5.64	1.25	6.54	1.50	7.00	1.64	7.46	1.78	8.36	2.09	9.29	2.42
	27	4.71	1.08	5.64	1.33	6.54	1.60	7.00	1.75	7.46	1.91	8.36	2.23	9.29	2.59
	29	4.71	1.15	5.64	1.41	6.54	1.70	7.00	1.86	7.46	2.03	8.36	2.38	9.29	2.76
	31	4.71	1.21	5.64	1.50	6.54	1.81	7.00	1.98	7.46	2.16	8.36	2.54	9.29	2.95
	33	4.71	1.29	5.64	1.59	6.54	1.93	7.00	2.11	7.46	2.30	8.36	2.70	9.29	3.14
	35	4.71	1.36	5.64	1.69	6.54	2.05	7.00	2.24	7.46	2.45	8.36	2.88	9.29	3.35
	37	4.71	1.44	5.64	1.79	6.54	2.18	7.00	2.38	7.46	2.60	8.36	3.07	9.29	3.57
	39	4.71	1.53	5.64	1.90	6.54	2.31	7.00	2.53	7.46	2.76	8.36	3.26	9.29	3.80
	42	4.71	1.62	5.64	1.99	6.54	2.40	7.00	2.64	7.46	2.88	8.36	3.44	9.29	4.03
	44	4.71	1.72	5.64	2.10	6.54	2.47	7.00	2.76	7.46	2.99	8.36	3.60	9.29	4.16
	46	4.71	1.80	5.64	2.19	6.54	2.58	7.00	2.85	7.46	3.08	8.36	3.71	9.29	4.25
60%	10	4.04	0.78	4.82	0.92	5.61	1.07	6.00	1.14	6.39	1.22	7.18	1.38	7.96	1.55
	12	4.04	0.80	4.82	0.93	5.61	1.09	6.00	1.16	6.39	1.24	7.18	1.40	7.96	1.57
	14	4.04	0.81	4.82	0.95	5.61	1.10	6.00	1.18	6.39	1.26	7.18	1.43	7.96	1.60
	16	4.04	0.82	4.82	0.97	5.61	1.12	6.00	1.20	6.39	1.28	7.18	1.46	7.96	1.63
	18	4.04	0.83	4.82	0.98	5.61	1.14	6.00	1.22	6.39	1.31	7.18	1.48	7.96	1.66
	20	4.04	0.84	4.82	1.00	5.61	1.16	6.00	1.25	6.39	1.33	7.18	1.51	7.96	1.70
	21	4.04	0.85	4.82	1.01	5.61	1.17	6.00	1.26	6.39	1.34	7.18	1.53	7.96	1.71
	23	4.04	0.86	4.82	1.03	5.61	1.19	6.00	1.28	6.39	1.37	7.18	1.59	7.96	1.82
	25	4.04	0.88	4.82	1.04	5.61	1.24	6.00	1.34	6.39	1.46	7.18	1.69	7.96	1.95
	27	4.04	0.91	4.82	1.11	5.61	1.32	6.00	1.44	6.39	1.55	7.18	1.80	7.96	2.08
	29	4.04	0.97	4.82	1.17	5.61	1.40	6.00	1.53	6.39	1.65	7.18	1.93	7.96	2.22
	31	4.04	1.03	4.82	1.24	5.61	1.49	6.00	1.62	6.39	1.76	7.18	2.05	7.96	2.36
	33	4.04	1.08	4.82	1.32	5.61	1.58	6.00	1.72	6.39	1.87	7.18	2.18	7.96	2.52
	35	4.04	1.15	4.82	1.40	5.61	1.68	6.00	1.83	6.39	1.99	7.18	2.32	7.96	2.68
	37	4.04	1.21	4.82	1.48	5.61	1.78	6.00	1.94	6.39	2.11	7.18	2.47	7.96	2.85
	39	4.04	1.28	4.82	1.57	5.61	1.88	6.00	2.06	6.39	2.24	7.18	2.62	7.96	3.03
42	4.04	1.33	4.82	1.66	5.61	1.98	6.00	2.17	6.39	2.35	7.18	2.78	7.96	3.21	
44	4.04	1.39	4.82	1.75	5.61	2.07	6.00	2.24	6.39	2.46	7.18	2.93	7.96	3.40	
46	4.04	1.46	4.82	1.83	5.61	2.14	6.00	2.33	6.39	2.59	7.18	3.04	7.96	3.58	
50%	10	3.38	0.68	4.04	0.78	4.68	0.89	5.00	0.96	5.32	1.01	5.96	1.14	6.64	1.27
	12	3.38	0.68	4.04	0.79	4.68	0.91	5.00	0.97	5.32	1.03	5.96	1.16	6.64	1.29
	14	3.38	0.69	4.04	0.80	4.68	0.92	5.00	0.99	5.32	1.05	5.96	1.18	6.64	1.31
	16	3.38	0.70	4.04	0.81	4.68	0.93	5.00	1.00	5.32	1.06	5.96	1.20	6.64	1.33
	18	3.38	0.71	4.04	0.83	4.68	0.95	5.00	1.02	5.32	1.08	5.96	1.22	6.64	1.36
	20	3.38	0.72	4.04	0.84	4.68	0.97	5.00	1.03	5.32	1.10	5.96	1.24	6.64	1.38
	21	3.38	0.73	4.04	0.85	4.68	0.98	5.00	1.04	5.32	1.11	5.96	1.25	6.64	1.40
	23	3.38	0.74	4.04	0.86	4.68	0.99	5.00	1.06	5.32	1.13	5.96	1.27	6.64	1.43
	25	3.38	0.75	4.04	0.87	4.68	1.01	5.00	1.08	5.32	1.17	5.96	1.34	6.64	1.53
	27	3.38	0.76	4.04	0.91	4.68	1.07	5.00	1.15	5.32	1.24	5.96	1.43	6.64	1.63
	29	3.38	0.80	4.04	0.96	4.68	1.13	5.00	1.22	5.32	1.32	5.96	1.52	6.64	1.73
	31	3.38	0.85	4.04	1.02	4.68	1.20	5.00	1.30	5.32	1.40	5.96	1.61	6.64	1.84
	33	3.38	0.90	4.04	1.08	4.68	1.27	5.00	1.37	5.32	1.49	5.96	1.71	6.64	1.96
	35	3.38	0.95	4.04	1.14	4.68	1.34	5.00	1.46	5.32	1.57	5.96	1.82	6.64	2.08
	37	3.38	1.00	4.04	1.20	4.68	1.43	5.00	1.54	5.32	1.67	5.96	1.93	6.64	2.21
	39	3.38	1.06	4.04	1.27	4.68	1.51	5.00	1.63	5.32	1.77	5.96	2.05	6.64	2.35
42	3.38	1.11	4.04	1.34	4.68	1.58	5.00	1.73	5.32	1.87	5.96	2.19	6.64	2.50	
44	3.38	1.17	4.04	1.41	4.68	1.65	5.00	1.84	5.32	1.91	5.96	2.34	6.64	2.64	
46	3.38	1.23	4.04	1.49	4.68	1.72	5.00	1.92	5.32	1.97	5.96	2.48	6.64	2.79	

Note:

- 1, [] is shown as reference
- 2, In cooling mode, avoid the outdoor air temperature range from 42-46 degree C, when selecting the models
- 3, The above table shows the average value of conditions may operate
- 4, It is recommended to connect less than 130%

Heating

Combinati on (%) (Capacity index)	Outdoor Air temperature(°C DB)		Indoor temperature(°C WB)											
			16		18		20		21		22		24	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
°C DB	°C	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	
130%	-19.8	-20	7.45	2.47	7.41	2.65	7.38	2.82	7.38	2.91	7.34	3.00	7.34	3.17
	-18.8	-19	7.56	2.53	7.52	2.70	7.52	2.87	7.48	2.96	7.48	3.04	7.45	3.21
	-16.7	-17	7.85	2.65	7.81	2.81	7.78	2.98	7.78	3.06	7.78	3.14	7.74	3.30
	-13.7	-15	8.18	2.77	8.14	2.93	8.10	3.09	8.10	3.16	8.07	3.25	8.07	3.40
	-11.8	-13	8.51	2.89	8.51	3.05	8.47	3.20	8.43	3.27	8.43	3.35	8.40	3.50
	-9.8	-11	8.91	3.02	8.87	3.16	8.83	3.31	8.83	3.38	8.83	3.45	8.80	3.60
	-9.5	-10	9.13	3.08	9.09	3.22	9.05	3.36	9.05	3.44	9.02	3.50	9.02	3.65
	-8.5	-9.1	9.31	3.14	9.27	3.27	9.27	3.41	9.24	3.48	9.24	3.55	9.20	3.69
	-7	-7.6	9.64	3.23	9.64	3.36	9.60	3.50	9.60	3.56	9.56	3.63	9.53	3.76
	-5	-5.6	10.15	3.35	10.11	3.48	10.08	3.60	10.08	3.67	10.04	3.73	10.04	3.85
	-3	-3.7	10.62	3.46	10.59	3.58	10.59	3.70	10.55	3.76	10.55	3.82	10.51	3.94
	0	-0.7	11.46	3.63	11.46	3.74	11.43	3.85	11.43	3.89	11.39	3.96	11.39	4.07
	3	2.2	12.38	3.78	12.34	3.88	12.30	3.99	12.30	4.04	12.30	4.09	12.27	4.19
	5	4.1	13.00	3.87	12.96	3.97	12.96	4.07	12.92	4.12	12.92	4.17	12.89	4.26
	7	6	13.65	3.96	13.62	4.05	13.62	4.15	13.58	4.20	13.58	4.24	13.03	4.07
	9	7.9	14.35	4.05	14.31	4.14	14.31	4.22	14.27	4.27	13.98	4.18	13.03	3.83
11	9.8	15.08	4.13	15.04	4.21	14.97	4.26	14.46	4.10	13.98	3.93	13.03	3.60	
13	11.8	15.88	4.20	15.84	4.29	14.97	4.00	14.46	3.84	13.98	3.69	13.03	3.38	
15	13.7	16.65	4.28	15.92	4.06	14.97	3.76	14.46	3.62	13.98	3.47	13.03	3.19	
120%	-19.8	-20	7.41	2.71	7.37	2.87	7.34	3.03	7.34	3.11	7.34	3.19	7.30	3.35
	-18.8	-19	7.52	2.76	7.48	2.92	7.48	3.08	7.45	3.15	7.45	3.24	7.41	3.40
	-16.7	-17	7.81	2.87	7.78	3.02	7.73	3.17	7.74	3.25	7.74	3.33	7.70	3.48
	-13.7	-15	8.14	2.98	8.11	3.13	8.07	3.27	8.07	3.35	8.07	3.42	8.03	3.57
	-11.8	-13	8.47	3.10	8.47	3.24	8.43	3.38	8.43	3.45	8.40	3.52	8.40	3.66
	-9.8	-11	8.87	3.21	8.83	3.35	8.83	3.48	8.80	3.55	8.80	3.61	8.76	3.75
	-9.5	-10	9.09	3.27	9.05	3.40	9.02	3.53	9.02	3.60	9.02	3.66	8.98	3.80
	-8.5	-9.1	9.27	3.32	9.24	3.45	9.24	3.58	9.20	3.64	9.20	3.71	9.16	3.84
	-7	-7.6	9.60	3.41	9.60	3.53	9.57	3.65	9.57	3.72	9.53	3.78	9.53	3.90
	-5	-5.6	10.11	3.52	10.08	3.64	10.04	3.75	10.04	3.81	10.04	3.87	10.00	3.99
	-3	-3.7	10.59	3.62	10.59	3.74	10.55	3.85	10.55	3.90	10.51	3.96	10.51	4.07
	0	-0.7	11.43	3.78	11.43	3.88	11.39	3.98	11.39	4.04	11.35	4.09	11.35	4.19
	3	2.2	12.34	3.92	12.30	4.01	12.30	4.11	12.27	4.16	12.27	4.20	12.01	4.18
	5	4.1	12.96	4.00	12.92	4.10	12.92	4.19	12.89	4.23	12.89	4.28	12.01	3.93
	7	6	13.62	4.09	13.62	4.17	13.58	4.26	13.36	4.20	12.92	4.03	12.01	3.70
	9	7.9	14.31	4.17	14.28	4.25	13.80	4.11	13.36	3.95	12.92	3.79	12.01	3.48
11	9.8	15.04	4.24	14.68	4.17	13.80	3.86	13.36	3.71	12.92	3.56	12.01	3.28	
13	11.8	15.59	4.20	14.68	3.91	13.80	3.62	13.36	3.49	12.92	3.35	12.01	3.08	
15	13.7	15.59	3.95	14.68	3.68	13.80	3.42	13.36	3.29	12.92	3.16	12.01	2.91	
110%	-19.8	-20	7.37	2.95	7.34	3.09	7.30	3.24	7.30	3.31	7.30	3.39	7.27	3.54
	-18.8	-19	7.48	2.99	7.45	3.14	7.45	3.28	7.45	3.35	7.41	3.43	7.41	3.57
	-16.7	-17	7.78	3.09	7.74	3.23	7.85	3.37	7.70	3.44	7.70	3.51	7.67	3.65
	-13.7	-15	8.11	3.20	8.07	3.33	8.03	3.46	8.03	3.53	8.03	3.60	8.00	3.73
	-11.8	-13	8.43	3.30	8.43	3.43	8.40	3.56	8.40	3.62	8.36	3.69	8.36	3.82
	-9.8	-11	8.83	3.41	8.80	3.53	8.80	3.65	8.76	3.72	8.76	3.78	8.76	3.90
	-9.5	-10	9.05	3.46	9.02	3.58	8.98	3.70	8.98	3.76	8.98	3.82	8.95	3.94
	-8.5	-9.1	9.24	3.51	9.20	3.63	9.20	3.75	9.16	3.80	9.16	3.86	9.16	3.52
	-7	-7.6	9.56	3.59	9.56	3.70	9.53	3.81	9.53	3.87	9.53	3.93	9.49	4.04
	-5	-5.6	10.08	3.69	10.04	3.80	10.00	3.90	10.00	3.96	10.00	4.01	9.97	4.12
	-3	-3.7	10.55	3.79	10.55	3.89	10.51	3.99	10.51	4.04	10.48	4.09	10.48	4.20
	0	-0.7	11.39	3.93	11.39	4.02	11.35	4.12	11.35	4.16	11.35	4.21	11.03	4.13
	3	2.2	12.30	4.06	12.27	4.15	12.27	4.23	12.23	4.27	11.83	4.10	11.03	3.76
	5	4.1	12.92	4.14	12.92	4.22	12.67	4.18	12.23	4.01	11.83	3.85	11.03	3.54
	7	6	13.58	4.21	13.47	4.24	12.67	3.93	12.23	3.77	11.83	3.62	11.03	3.33
	9	7.9	14.27	4.28	13.47	3.99	12.67	3.70	12.23	3.55	11.83	3.41	11.03	3.14
11	9.8	14.27	4.03	13.47	3.75	12.67	3.48	12.23	3.35	11.83	3.21	11.03	2.96	
13	11.8	14.27	3.78	13.47	3.52	12.67	3.27	12.23	3.15	11.83	3.02	11.03	2.79	
15	13.7	14.27	3.35	13.47	3.32	12.67	3.09	12.23	2.97	11.83	2.86	11.03	2.64	
100%	-19.8	-20	7.34	3.18	7.30	3.31	7.30	3.45	7.26	3.52	7.26	3.58	7.23	3.72
	-18.8	-19	7.45	3.22	7.45	3.35	7.41	3.49	7.41	3.55	7.37	3.62	7.37	3.75
	-16.7	-17	7.74	3.31	7.70	3.44	7.70	3.57	7.67	3.63	7.67	3.70	7.67	3.82

	-13.7	-15	8.07	3.41	8.03	3.53	7.99	3.65	7.99	3.72	7.99	3.78	7.96	3.90
	-11.8	-13	8.40	3.51	8.40	3.62	8.36	3.74	8.36	3.80	8.36	3.86	8.32	3.98
	-9.8	-11	8.80	3.60	8.76	3.72	8.76	3.83	8.76	3.89	8.73	3.94	8.73	4.05
	-9.5	-10	9.02	3.65	8.98	3.76	8.98	3.87	8.94	3.93	8.94	3.98	8.91	4.09
	-8.5	-9.1	9.20	3.70	9.16	3.80	9.16	3.91	9.16	3.96	9.13	4.02	9.13	4.12
	-7	-7.6	9.53	3.77	9.53	3.87	9.49	3.97	9.49	4.03	9.49	4.08	9.46	4.18
	-5	-5.6	10.04	3.86	10.00	3.96	10.00	4.06	9.97	4.10	9.97	4.15	9.93	4.25
	-3	-3.7	10.51	3.95	10.51	3.59	10.48	4.14	10.48	4.18	10.48	4.23	10.04	4.05
	0	-0.7	11.35	4.08	11.35	4.16	11.32	4.25	11.14	4.18	10.77	4.01	10.04	3.68
	3	2.2	12.27	4.20	12.23	4.27	11.50	3.95	11.14	3.80	10.77	3.65	10.04	3.35
	5	4.1	12.89	4.27	12.23	4.01	11.50	3.72	11.14	3.58	10.77	3.44	10.04	3.16
	7	6	12.96	4.05	12.23	3.77	11.50	3.50	11.14	3.37	10.77	3.24	10.04	2.98
	9	7.9	12.96	3.81	12.23	3.55	11.50	3.30	11.14	3.13	10.77	3.05	10.04	2.81
	11	9.8	12.96	3.59	12.23	3.35	11.50	3.11	11.14	2.99	10.77	2.88	10.04	2.65
	13	11.8	12.96	3.37	12.23	3.15	11.50	2.93	11.14	2.82	10.77	2.71	10.04	2.50
	15	13.7	12.96	3.18	12.23	2.97	11.50	2.76	11.14	2.66	10.77	2.56	10.04	2.37
90%	-19.8	-20	7.29	3.42	7.25	3.54	7.25	3.66	7.22	3.72	7.22	3.78	7.22	3.90
	-18.8	-19	7.40	3.45	7.40	3.58	7.36	3.70	7.36	3.75	7.36	3.81	7.32	3.93
	-16.7	-17	7.69	3.54	7.65	3.65	7.65	3.77	7.65	3.83	7.62	3.88	7.62	4.00
	-13.7	-15	8.02	3.63	7.98	3.74	7.98	3.85	7.94	3.90	7.94	3.95	7.94	4.06
	-11.8	-13	8.35	3.71	8.35	3.82	8.31	3.92	8.31	3.98	8.31	4.03	8.27	4.13
	-9.8	-11	8.75	3.80	8.75	3.90	8.71	4.00	8.71	4.05	8.71	4.10	8.67	4.20
	-9.5	-10	8.97	3.85	8.93	3.95	8.93	4.04	8.89	4.09	8.89	4.14	8.89	4.24
	-8.5	-9.1	9.15	3.89	9.15	3.98	9.11	4.08	9.11	4.12	9.11	4.17	9.00	4.21
	-7	-7.6	9.48	3.95	9.48	4.04	9.44	4.14	9.44	4.18	9.44	4.23	9.00	4.02
	-5	-5.6	9.99	4.04	9.95	4.12	9.95	4.21	9.91	4.25	9.66	4.12	9.00	3.78
	-3	-3.7	10.46	4.11	10.46	4.20	10.35	4.21	9.99	4.05	9.66	3.88	9.00	3.56
	0	-0.7	11.33	4.23	11.01	4.13	10.35	3.82	9.99	3.67	9.66	3.53	9.00	3.24
	3	2.2	11.66	4.03	11.01	3.75	10.35	3.48	9.99	3.35	9.66	3.22	9.00	2.96
	5	4.1	11.66	3.79	11.01	3.53	10.35	3.28	9.99	3.15	9.66	3.04	9.00	2.80
	7	6	11.66	3.56	11.01	3.33	10.35	3.09	9.99	2.98	9.66	2.86	9.00	2.64
	9	7.9	11.66	3.36	11.01	3.13	10.35	2.91	9.99	2.81	9.66	2.70	9.00	2.50
11	9.8	11.66	3.16	11.01	2.95	10.35	2.75	9.99	2.65	9.66	2.55	9.00	2.36	
13	11.8	11.66	2.98	11.01	2.79	10.35	2.60	9.99	2.50	9.66	2.41	9.00	2.23	
15	13.7	11.66	2.81	11.01	2.63	10.35	2.46	9.99	2.37	9.66	2.29	9.00	2.12	
80%	-19.8	-20	7.27	3.65	7.23	3.76	7.23	3.87	7.23	3.92	7.19	3.98	7.19	4.08
	-18.8	-19	7.37	3.69	7.37	3.80	7.34	3.90	7.34	3.95	7.34	4.00	7.30	4.11
	-16.7	-17	7.67	3.76	7.63	3.86	7.63	3.97	7.63	4.02	7.63	4.07	7.59	4.17
	-13.7	-15	7.99	3.84	7.96	3.94	7.96	4.04	7.96	4.08	7.92	4.13	7.92	4.23
	-11.8	-13	8.32	3.92	8.32	4.01	8.29	4.10	8.29	4.15	8.29	4.20	8.03	4.09
	-9.8	-11	8.73	4.00	8.73	4.09	8.69	4.18	8.69	4.22	8.62	4.21	8.03	3.86
	-9.5	-10	8.94	4.04	8.91	4.12	8.91	4.21	8.91	4.25	8.62	4.09	8.03	3.75
	-8.5	-9.1	9.13	4.07	8.48	4.16	9.09	4.24	8.91	4.15	8.62	3.98	8.03	3.65
	-7	-7.6	9.46	4.13	9.46	4.21	9.20	4.12	8.91	3.96	8.62	3.80	8.03	3.49
	-5	-5.6	9.97	4.20	9.78	4.18	9.20	3.87	8.91	3.72	8.62	3.57	8.03	3.28
	-3	-3.7	10.37	4.23	9.78	3.94	9.20	3.65	8.91	3.51	8.62	3.37	8.03	3.10
	0	-0.7	10.37	3.84	9.78	3.57	9.20	3.32	8.91	3.20	8.62	3.07	8.03	2.83
	3	2.2	10.37	3.50	9.78	3.26	9.20	3.03	8.91	2.92	8.62	2.81	8.03	2.59
	5	4.1	10.37	3.29	9.78	3.07	9.20	2.86	8.91	2.75	8.62	2.65	8.03	2.45
	7	6	10.37	3.10	9.78	2.90	9.20	2.70	8.91	2.60	8.62	2.51	8.03	2.32
	9	7.9	10.37	2.93	9.78	2.74	9.20	2.55	8.91	2.46	8.62	2.37	8.03	2.20
11	9.8	10.37	2.76	9.78	2.59	9.20	2.41	8.91	2.33	8.62	2.25	8.03	2.08	
13	11.8	10.37	2.60	9.78	2.44	9.20	2.28	8.91	2.20	8.62	2.12	8.03	1.97	
15	13.7	10.37	2.46	9.78	2.31	9.20	2.16	8.91	2.09	8.62	2.01	8.03	1.87	
70%	-19.8	-20	7.21	3.89	7.18	3.98	7.18	4.08	7.18	4.12	7.18	4.17	6.99	4.13
	-18.8	-19	7.32	3.92	7.32	4.01	7.29	4.10	7.29	4.15	7.29	4.20	6.99	4.04
	-16.7	-17	7.61	3.99	7.61	4.08	7.58	4.16	7.58	4.21	7.50	3.75	6.99	3.85
	-13.7	-15	7.94	4.05	7.90	4.14	7.90	4.23	7.76	4.16	7.50	4.00	6.99	3.66
	-11.8	-13	8.27	4.12	8.27	4.20	8.05	4.10	7.76	3.95	7.50	3.79	6.99	3.47
	-9.8	-11	8.67	4.19	8.56	4.19	8.05	3.88	7.76	3.73	7.50	3.58	6.99	3.29
	-9.5	-10	8.89	4.23	8.56	4.06	8.05	3.76	7.76	3.62	7.50	3.48	6.99	3.20
	-8.5	-9.1	9.07	4.25	8.56	3.95	8.05	3.66	7.76	3.52	7.50	3.39	6.99	3.11
	-7	-7.6	9.07	4.06	8.56	3.78	8.05	3.50	7.76	3.37	7.50	3.24	6.99	2.98
	-5	-5.6	9.07	3.81	8.56	3.55	8.05	3.30	7.76	3.17	7.50	3.17	6.99	2.81
-3	-3.7	9.07	3.59	8.56	3.35	8.05	3.11	7.76	3.00	7.50	2.88	6.99	2.66	

60%	0	-0.7	9.07	3.27	8.56	3.05	8.05	2.84	7.76	2.74	7.50	2.64	6.99	2.44
	3	2.2	9.07	2.99	8.56	2.80	8.05	2.60	7.76	2.51	7.50	2.42	6.99	2.24
	5	4.1	9.07	2.82	8.56	2.64	8.05	2.46	7.76	2.37	7.50	2.29	6.99	2.12
	7	6	9.07	2.66	8.56	2.50	8.05	2.33	7.76	2.25	7.50	2.17	6.99	2.01
	9	7.9	9.07	2.52	8.56	2.36	8.05	2.20	7.76	2.13	7.50	2.05	6.99	1.90
	11	9.8	9.07	2.38	8.56	2.23	8.05	2.09	7.76	2.02	7.50	1.95	6.99	1.81
	13	11.8	9.07	2.25	8.56	2.11	8.05	1.98	7.76	1.91	7.50	1.85	6.99	1.72
	15	13.7	9.07	2.13	8.56	2.00	8.05	1.88	7.76	1.82	7.50	1.75	6.99	1.64
	-19.8	-20	7.19	4.13	7.16	4.20	6.90	4.05	6.68	3.89	6.46	3.73	6.02	3.42
	-18.8	-19	7.30	4.15	7.30	4.23	6.90	3.96	6.68	3.80	6.46	3.65	6.02	3.35
	-16.7	-17	7.59	4.21	7.34	4.08	6.90	3.78	6.68	3.63	6.46	3.49	6.02	3.20
	-13.7	-15	7.78	4.16	7.34	3.87	6.90	3.59	6.68	3.45	6.46	3.32	6.02	3.05
	-11.8	-13	7.78	3.94	7.34	3.67	6.90	3.40	6.68	3.28	6.46	3.15	6.02	2.91
	-9.8	-11	7.78	3.72	7.34	3.47	6.90	3.22	6.68	3.10	6.46	2.98	6.02	2.75
	-9.5	-10	7.78	3.62	7.34	3.37	6.90	3.13	6.68	3.02	6.46	2.90	6.02	2.67
	-8.5	-9.1	7.78	3.52	7.34	3.29	6.90	3.05	6.68	2.94	6.46	2.83	6.02	2.61
-7	-7.6	7.78	3.37	7.34	3.15	6.90	2.92	6.68	2.82	6.46	2.71	6.02	2.50	
-5	-5.6	7.78	3.17	7.34	2.96	6.90	2.76	6.68	2.66	6.46	2.56	6.02	2.37	
-3	-3.7	7.78	3.00	7.34	2.80	6.90	2.61	6.68	2.52	6.46	2.42	6.02	2.24	
0	-0.7	7.78	2.74	7.34	2.56	6.90	2.39	6.68	2.31	6.46	2.22	6.02	2.06	
3	2.2	7.78	2.51	7.34	2.35	6.90	2.20	6.68	2.12	6.46	2.05	6.02	1.90	
5	4.1	7.78	2.37	7.34	2.23	6.90	2.08	6.68	2.01	6.46	1.94	6.02	1.80	
7	6	7.78	2.25	7.34	2.11	6.90	1.97	6.68	1.91	6.46	1.85	6.02	1.71	
9	7.9	7.78	2.13	7.34	2.00	6.90	1.87	6.68	1.81	6.46	1.75	6.02	1.63	
11	9.8	7.78	2.02	7.34	1.90	6.90	1.78	6.68	1.72	6.46	1.66	6.02	1.55	
13	11.8	7.78	1.91	7.34	1.80	6.90	1.69	6.68	1.64	6.46	1.58	6.02	1.48	
15	13.7	7.78	1.82	7.34	1.71	6.90	1.61	6.68	1.56	6.46	1.51	6.02	1.41	
50%	-19.8	-20	6.48	3.75	6.11	3.50	5.75	3.25	5.53	3.13	5.35	3.00	4.99	2.77
	-18.8	-19	6.48	3.67	6.11	3.42	5.75	3.18	5.53	3.06	5.35	2.94	4.99	2.71
	-16.7	-17	6.48	3.50	6.11	3.27	5.75	3.04	5.53	2.93	5.35	2.82	4.99	2.60
	-13.7	-15	6.48	3.34	6.11	3.11	5.75	2.90	5.53	2.79	5.35	2.69	4.99	2.48
	-11.8	-13	6.48	3.17	6.11	2.96	5.75	2.75	5.53	2.65	5.35	2.55	4.99	2.36
	-9.8	-11	6.48	3.00	6.11	2.80	5.75	2.61	5.53	2.52	5.35	2.43	4.99	2.25
	-9.5	-10	6.48	2.92	6.11	2.73	5.75	2.55	5.53	2.45	5.35	2.36	4.99	2.19
	-8.5	-9.1	6.48	2.85	6.11	2.66	5.75	2.48	5.53	2.40	5.35	2.31	4.99	2.14
	-7	-7.6	6.48	2.73	6.11	2.55	5.75	2.38	5.53	2.30	5.35	2.22	4.99	2.05
	-5	-5.6	6.48	2.57	6.11	2.41	5.75	2.25	5.53	2.18	5.35	2.10	4.99	1.95
	-3	-3.7	6.48	2.44	6.11	2.29	5.75	2.14	5.53	2.06	5.35	1.99	4.99	1.85
	0	-0.7	6.48	2.24	6.11	2.10	5.75	1.97	5.53	1.90	5.35	1.84	4.99	1.71
	3	2.2	6.48	2.06	6.11	1.94	5.75	1.81	5.53	1.75	5.35	1.70	4.99	1.58
	5	4.1	6.48	1.95	6.11	1.84	5.75	1.72	5.53	1.67	5.35	1.61	4.99	1.50
	7	6	6.48	1.85	6.11	1.75	5.75	1.64	5.53	1.59	5.35	1.54	4.99	1.44
	9	7.9	6.48	1.76	6.11	1.66	5.75	1.56	5.53	1.51	5.35	1.46	4.99	1.37
11	9.8	6.48	1.67	6.11	1.58	5.75	1.49	5.53	1.44	5.35	1.40	4.99	1.30	
13	11.8	6.48	1.59	6.11	1.50	5.75	1.41	5.53	1.37	5.35	1.33	4.99	1.25	
15	13.7	6.48	1.51	6.11	1.43	5.75	1.35	5.53	1.31	5.35	1.27	4.99	1.19	

Note:

- 1, is shown as reference
- 2, In heating mode, avoid the outdoor air temperature range from -15 to -20 degree C, when selecting the models
- 3, The above table shows the average value of conditions may operate
- 4, It is recommended to connect less than 130%

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Cooling

Combination (%) (Capacity index)	Outdoor Air temperature (°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
130%	10	10.54	2.07	12.56	2.54	14.57	3.01	15.13	3.08	15.30	3.02	15.69	2.89	16.07	2.76
	12	10.54	2.11	12.56	2.58	14.57	3.07	14.91	3.06	15.13	3.00	15.47	2.87	15.86	2.83
	14	10.54	2.15	12.56	2.63	14.53	3.11	14.74	3.07	14.91	2.98	15.30	2.96	15.69	2.99
	16	10.54	2.19	12.56	2.69	14.36	3.10	14.53	3.05	14.70	3.09	15.09	3.12	15.47	3.15
	18	10.54	2.23	12.56	2.74	14.14	3.21	14.31	3.23	14.53	3.25	14.91	3.28	15.30	3.31
	20	10.54	2.28	12.56	2.92	13.93	3.37	14.14	3.39	14.31	3.41	14.70	3.44	15.09	3.48
	21	10.54	2.34	12.56	3.02	13.84	3.45	14.06	3.47	14.23	3.49	14.61	3.52	15.00	3.55
	23	10.54	2.51	12.56	3.24	13.67	3.61	13.84	3.63	14.01	3.65	14.40	3.68	14.78	3.72
	25	10.54	2.68	12.56	3.47	13.46	3.77	13.63	3.78	13.84	3.81	14.23	3.85	14.61	3.88
	27	10.54	2.86	12.56	3.71	13.29	3.92	13.46	3.95	13.63	3.97	14.01	4.01	14.40	4.05
	29	10.54	3.06	12.56	3.97	13.07	4.08	13.24	4.11	13.46	4.13	13.84	4.17	14.23	4.22
	31	10.54	3.26	12.51	4.20	12.86	4.25	13.07	4.27	13.24	4.29	13.63	4.34	14.01	4.39
	33	10.54	3.48	12.30	4.35	12.69	4.40	12.86	4.43	13.07	4.45	13.46	4.50	13.80	4.55
	35	10.54	3.71	12.09	4.51	12.47	4.57	12.69	4.59	12.86	4.62	13.24	4.67	13.63	4.72
	37	10.54	3.94	11.91	4.68	12.30	4.73	12.47	4.76	12.69	4.79	13.03	4.84	13.41	4.89
	39	10.54	4.20	11.70	4.72	12.09	4.89	12.30	4.92	12.47	4.95	12.86	5.00	13.24	5.06
	42	10.54	4.42	11.58	4.77	11.96	4.93	12.17	4.96	12.34	4.99	12.73	5.01	12.73	5.11
44	10.54	4.64	11.46	4.82	11.83	4.96	12.05	5.01	12.09	5.01	12.27	5.03	12.43	5.13	
46	10.54	4.87	11.41	4.86	11.70	5.03	11.92	5.03	11.99	5.04	12.05	5.05	12.24	5.30	
120%	10	9.73	1.89	11.57	2.31	13.46	2.75	14.40	2.97	15.09	3.10	15.43	2.98	15.77	2.86
	12	9.73	1.93	11.57	2.35	13.46	2.80	14.40	3.03	14.87	3.08	15.21	2.97	15.56	2.84
	14	9.73	1.97	11.57	2.40	13.46	2.86	14.40	3.09	14.66	3.06	15.04	2.95	15.39	2.97
	16	9.73	2.00	11.57	2.45	13.46	2.91	14.31	3.11	14.49	3.07	14.83	3.10	15.17	3.12
	18	9.73	2.04	11.57	2.50	13.46	3.01	14.10	3.21	14.27	3.23	14.61	3.26	15.00	3.29
	20	9.73	2.08	11.57	2.60	13.46	3.24	13.93	3.37	14.10	3.38	14.44	3.41	14.79	3.44
	21	9.73	2.10	11.57	2.69	13.46	3.35	13.80	3.45	13.97	3.46	14.36	3.49	14.70	3.53
	23	9.73	2.24	11.57	2.88	13.46	3.59	13.63	3.60	13.80	3.62	14.14	3.66	14.49	3.69
	25	9.73	2.40	11.57	3.08	13.24	3.75	13.41	3.76	13.59	3.78	13.97	3.81	14.31	3.85
	27	9.73	2.56	11.57	3.29	13.07	3.90	13.24	3.92	13.41	3.94	13.76	3.98	14.10	4.01
	29	9.73	2.73	11.57	3.52	12.86	4.06	13.03	4.08	13.20	4.10	13.54	4.14	13.93	4.18
	31	9.73	2.91	11.57	3.75	12.64	4.22	12.86	4.24	13.03	4.26	13.37	4.31	13.71	4.35
	33	9.73	3.10	11.57	4.00	12.47	4.38	12.64	4.40	12.81	4.42	13.16	4.47	13.50	4.51
	35	9.73	3.30	11.57	4.27	12.26	4.54	12.43	4.56	12.64	4.58	12.99	4.63	13.33	4.68
	37	9.73	3.51	11.57	4.55	12.09	4.70	12.26	4.72	12.43	4.75	12.77	4.80	13.11	4.85
	39	9.73	3.74	11.53	4.80	11.87	4.86	12.04	4.89	12.21	4.91	12.60	4.97	12.94	5.02
	42	9.73	3.87	11.40	4.85	11.75	4.90	11.92	4.93	12.09	4.96	12.48	4.99	12.45	5.07
44	9.73	3.92	11.34	4.89	11.62	4.94	11.79	4.95	11.97	4.97	12.10	5.00	12.30	5.24	
46	9.73	3.96	11.28	4.94	11.52	4.99	11.67	5.03	11.88	5.03	11.98	5.02	12.20	5.29	
110%	10	8.91	1.72	10.63	2.09	12.34	2.49	13.20	2.69	14.06	2.89	15.13	3.07	15.47	2.97
	12	8.91	1.75	10.63	2.13	12.34	2.54	13.20	2.74	14.06	2.95	14.96	3.06	15.26	2.95
	14	8.91	1.78	10.63	2.17	12.34	2.58	13.20	2.79	14.06	3.00	14.74	3.04	15.09	2.94
	16	8.91	1.81	10.63	2.21	12.34	2.63	13.20	2.84	14.06	3.06	14.57	3.07	14.87	3.11
	18	8.91	1.85	10.63	2.26	12.34	2.69	13.20	2.92	14.06	3.21	14.36	3.23	14.70	3.26
	20	8.91	1.89	10.63	2.30	12.34	2.84	13.20	3.14	13.84	3.37	14.19	3.39	14.49	3.42
	21	8.91	1.90	10.63	2.37	12.34	2.95	13.20	3.26	13.76	3.45	14.06	3.47	14.40	3.50
	23	8.91	2.00	10.63	2.54	12.34	3.16	13.20	3.49	13.54	3.60	13.89	3.63	14.19	3.66
	25	8.91	2.13	10.63	2.72	12.34	3.38	13.20	3.74	13.37	3.75	13.67	3.79	14.01	3.82
	27	8.91	2.27	10.63	2.91	12.34	3.61	12.99	3.90	13.16	3.91	13.50	3.95	13.80	3.98
	29	8.91	2.42	10.63	3.10	12.34	3.86	12.81	4.06	12.99	4.08	13.29	4.11	13.63	4.15
	31	8.91	2.58	10.63	3.31	12.34	4.12	12.60	4.22	12.77	4.23	13.12	4.27	13.41	4.31
	33	8.91	2.74	10.63	3.52	12.26	4.35	12.43	4.37	12.60	4.39	12.90	4.43	13.24	4.48
	35	8.91	2.92	10.63	3.75	12.04	4.51	12.21	4.53	12.39	4.56	12.69	4.60	13.03	4.64
	37	8.91	3.11	10.63	4.00	11.87	4.67	12.04	4.69	12.17	4.71	12.52	4.76	12.81	4.80
	39	8.91	3.30	10.63	4.26	11.66	4.83	11.83	4.85	12.00	4.88	12.30	4.92	12.64	4.97
	42	8.91	3.34	10.63	4.30	11.54	4.87	11.71	4.90	11.88	4.92	12.09	4.97	12.14	5.02
44	8.91	3.39	10.63	4.35	11.41	4.92	11.58	4.94	11.76	4.97	11.98	4.98	12.01	5.20	

	46	8.91	3.48	10.63	4.39	11.30	4.96	11.46	5.02	11.67	5.01	11.85	5.24	11.91	5.26
100%	10	8.10	1.55	9.64	1.88	11.23	2.23	12.00	2.41	12.77	2.59	14.36	2.96	15.17	3.06
	12	8.10	1.58	9.64	1.92	11.23	2.27	12.00	2.45	12.77	2.64	14.36	3.01	14.96	3.04
	14	8.10	1.61	9.64	1.95	11.23	2.31	12.00	2.50	12.77	2.69	14.36	3.07	14.79	3.03
	16	8.10	1.64	9.64	1.99	11.23	2.36	12.00	2.55	12.77	2.74	14.27	3.11	14.57	3.08
	18	8.10	1.67	9.64	2.03	11.23	2.40	12.00	2.60	12.77	2.80	14.10	3.21	14.40	3.24
	20	8.10	1.70	9.64	2.07	11.23	2.47	12.00	2.73	12.77	3.00	13.89	3.37	14.19	3.40
	21	8.10	1.72	9.64	2.09	11.23	2.57	12.00	2.83	12.77	3.10	13.80	3.44	14.10	3.47
	23	8.10	1.76	9.64	2.23	11.23	2.75	12.00	3.03	12.77	3.32	13.63	3.60	13.89	3.63
	25	8.10	1.87	9.64	2.38	11.23	2.94	12.00	3.24	12.77	3.56	13.41	3.76	13.71	3.79
	27	8.10	2.00	9.64	2.53	11.23	3.14	12.00	3.47	12.77	3.81	13.20	3.92	13.50	3.95
	29	8.10	2.13	9.64	2.70	11.23	3.35	12.00	3.71	12.73	4.05	13.03	4.08	13.33	4.11
	31	8.10	2.27	9.64	2.89	11.23	3.58	12.00	3.95	12.56	4.20	12.81	4.24	13.11	4.28
	33	8.10	2.41	9.64	3.07	11.23	3.81	12.00	4.22	12.34	4.36	12.64	4.40	12.94	4.44
	35	8.10	2.56	9.64	3.27	11.23	4.07	12.00	4.50	12.13	4.52	12.43	4.56	12.73	4.60
	37	8.10	2.72	9.64	3.48	11.23	4.34	11.78	4.66	11.96	4.68	12.26	4.72	12.51	4.76
	39	8.10	2.89	9.64	3.70	11.23	4.62	11.61	4.82	11.74	4.84	12.04	4.88	12.34	4.93
42	8.10	3.07	9.64	3.88	11.23	4.84	11.37	4.86	11.62	4.94	11.76	5.00	12.10	5.07	
44	8.10	3.25	9.64	4.06	11.23	4.91	11.13	4.95	11.51	4.98	12.04	5.06	11.79	5.11	
46	8.10	3.43	9.64	4.24	11.23	5.01	10.89	5.00	11.50	5.12	11.56	5.15	11.62	5.20	
90%	10	7.29	1.39	8.70	1.67	10.11	1.98	10.80	2.13	11.49	2.29	12.90	2.62	14.31	2.95
	12	7.29	1.41	8.70	1.70	10.11	2.01	10.80	2.17	11.49	2.33	12.90	2.67	14.31	3.01
	14	7.29	1.44	8.70	1.73	10.11	2.05	10.80	2.21	11.49	2.38	12.90	2.72	14.31	3.06
	16	7.29	1.46	8.70	1.76	10.11	2.09	10.80	2.26	11.49	2.43	12.90	2.77	14.27	3.12
	18	7.29	1.49	8.70	1.80	10.11	2.13	10.80	2.30	11.49	2.47	12.90	2.83	14.10	3.21
	20	7.29	1.52	8.70	1.84	10.11	2.17	10.80	2.35	11.49	2.57	12.90	3.04	13.89	3.37
	21	7.29	1.53	8.70	1.86	10.11	2.21	10.80	2.43	11.49	2.66	12.90	3.15	13.80	3.44
	23	7.29	1.56	8.70	1.93	10.11	2.36	10.80	2.60	11.49	2.85	12.90	3.38	13.59	3.60
	25	7.29	1.64	8.70	2.06	10.11	2.53	10.80	2.78	11.49	3.04	12.90	3.61	13.41	3.76
	27	7.29	1.75	8.70	2.20	10.11	2.70	10.80	2.97	11.49	3.26	12.90	3.87	13.20	3.92
	29	7.29	1.86	8.70	2.34	10.11	2.88	10.80	3.17	11.49	3.48	12.77	4.05	13.03	4.08
	31	7.29	1.98	8.70	2.49	10.11	3.07	10.80	3.38	11.49	3.71	12.56	4.20	12.81	4.24
	33	7.29	2.10	8.70	2.65	10.11	3.27	10.80	3.61	11.49	3.96	12.39	4.37	12.64	4.40
	35	7.29	2.23	8.70	2.82	10.11	3.49	10.80	3.84	11.49	4.22	12.17	4.52	12.43	4.56
	37	7.29	2.36	8.70	3.00	10.11	3.71	10.80	4.09	11.49	4.50	11.96	4.68	12.26	4.72
	39	7.29	2.51	8.70	3.19	10.11	3.95	10.80	4.36	11.49	4.79	11.79	4.85	12.04	4.88
42	7.29	2.63	8.70	3.38	10.11	4.14	10.80	4.51	11.49	4.83	11.68	5.01	11.94	5.04	
44	7.29	2.82	8.70	3.57	10.11	4.33	10.80	4.67	11.49	5.02	11.61	5.06	11.78	5.11	
46	7.29	2.97	8.70	3.73	10.11	4.49	10.80	4.82	11.49	5.10	11.55	5.11	11.57	5.17	
80%	10	6.47	1.23	7.71	1.47	8.96	1.73	9.60	1.87	10.24	2.00	11.49	2.29	12.73	2.58
	12	6.47	1.25	7.71	1.50	8.96	1.76	9.60	1.90	10.24	2.04	11.49	2.33	12.73	2.63
	14	6.47	1.27	7.71	1.53	8.96	1.80	9.60	1.93	10.24	2.08	11.49	2.37	12.73	2.67
	16	6.47	1.29	7.71	1.55	8.96	1.83	9.60	1.97	10.24	2.12	11.49	2.42	12.73	2.72
	18	6.47	1.32	7.71	1.58	8.96	1.87	9.60	2.01	10.24	2.16	11.49	2.47	12.73	2.78
	20	6.47	1.34	7.71	1.61	8.96	1.90	9.60	2.05	10.24	2.20	11.49	2.56	12.73	2.97
	21	6.47	1.35	7.71	1.63	8.96	1.92	9.60	2.07	10.24	2.25	11.49	2.65	12.73	3.08
	23	6.47	1.38	7.71	1.66	8.96	2.01	9.60	2.21	10.24	2.41	11.49	2.84	12.73	3.31
	25	6.47	1.42	7.71	1.76	8.96	2.15	9.60	2.36	10.24	2.57	11.49	3.04	12.73	3.54
	27	6.47	1.51	7.71	1.88	8.96	2.29	9.60	2.52	10.24	2.75	11.49	3.24	12.73	3.78
	29	6.47	1.61	7.71	2.00	8.96	2.44	9.60	2.68	10.24	2.94	11.49	3.46	12.73	4.05
	31	6.47	1.70	7.71	2.13	8.96	2.60	9.60	2.86	10.24	3.13	11.49	3.70	12.51	4.20
	33	6.47	1.81	7.71	2.26	8.96	2.77	9.60	3.04	10.24	3.33	11.49	3.94	12.34	4.36
	35	6.47	1.92	7.71	2.41	8.96	2.95	9.60	3.24	10.24	3.55	11.49	4.20	12.13	4.52
	37	6.47	2.04	7.71	2.55	8.96	3.14	9.60	3.45	10.24	3.78	11.49	4.48	11.96	4.68
	39	6.47	2.16	7.71	2.72	8.96	3.34	9.60	3.67	10.24	4.02	11.49	4.77	11.74	4.84
42	6.47	2.22	7.71	2.76	8.96	3.40	9.60	3.80	10.24	4.12	11.49	4.94	11.65	4.95	
44	6.47	2.32	7.71	2.79	8.96	3.47	9.60	3.86	10.24	4.18	11.49	4.97	11.55	5.00	
46	6.47	2.35	7.71	2.82	8.96	3.53	9.60	3.96	10.24	4.26	11.49	5.04	11.45	5.12	
70%	10	5.66	1.09	6.77	1.29	7.84	1.50	8.40	1.61	8.96	1.73	10.03	1.96	11.14	2.21
	12	5.66	1.10	6.77	1.30	7.84	1.53	8.40	1.64	8.96	1.76	10.03	2.00	11.14	2.25
	14	5.66	1.12	6.77	1.33	7.84	1.55	8.40	1.67	8.96	1.79	10.03	2.04	11.14	2.29
	16	5.66	1.13	6.77	1.35	7.84	1.58	8.40	1.70	8.96	1.83	10.03	2.07	11.14	2.33

	18	5.66	1.15	6.77	1.38	7.84	1.61	8.40	1.73	8.96	1.86	10.03	2.12	11.14	2.38
	20	5.66	1.17	6.77	1.40	7.84	1.64	8.40	1.76	8.96	1.89	10.03	2.16	11.14	2.45
	21	5.66	1.18	6.77	1.41	7.84	1.66	8.40	1.78	8.96	1.91	10.03	2.19	11.14	2.54
	23	5.66	1.20	6.77	1.44	7.84	1.69	8.40	1.84	8.96	2.01	10.03	2.35	11.14	2.72
	25	5.66	1.23	6.77	1.50	7.84	1.80	8.40	1.97	8.96	2.14	10.03	2.51	11.14	2.90
	27	5.66	1.30	6.77	1.59	7.84	1.92	8.40	2.10	8.96	2.29	10.03	2.68	11.14	3.11
	29	5.66	1.38	6.77	1.69	7.84	2.04	8.40	2.24	8.96	2.43	10.03	2.86	11.14	3.32
	31	5.66	1.46	6.77	1.80	7.84	2.18	8.40	2.38	8.96	2.59	10.03	3.04	11.14	3.54
	33	5.66	1.55	6.77	1.91	7.84	2.32	8.40	2.53	8.96	2.76	10.03	3.24	11.14	3.77
	35	5.66	1.64	6.77	2.03	7.84	2.46	8.40	2.69	8.96	2.94	10.03	3.46	11.14	4.02
	37	5.66	1.73	6.77	2.15	7.84	2.61	8.40	2.86	8.96	3.12	10.03	3.68	11.14	4.28
	39	5.66	1.83	6.77	2.27	7.84	2.77	8.40	3.04	8.96	3.32	10.03	3.91	11.14	4.56
	42	5.66	1.94	6.77	2.38	7.84	2.88	8.40	3.17	8.96	3.45	10.03	4.13	11.14	4.83
	44	5.66	2.07	6.77	2.52	7.84	2.97	8.40	3.31	8.96	3.59	10.03	4.32	11.14	4.99
	46	5.66	2.16	6.77	2.62	7.84	3.09	8.40	3.42	8.96	3.69	10.03	4.45	11.14	5.10
60%	10	4.84	0.94	5.79	1.10	6.73	1.28	7.20	1.37	7.67	1.46	8.61	1.66	9.56	1.86
	12	4.84	0.96	5.79	1.12	6.73	1.30	7.20	1.39	7.67	1.49	8.61	1.69	9.56	1.89
	14	4.84	0.97	5.79	1.14	6.73	1.32	7.20	1.42	7.67	1.52	8.61	1.72	9.56	1.92
	16	4.84	0.98	5.79	1.16	6.73	1.35	7.20	1.44	7.67	1.54	8.61	1.75	9.56	1.96
	18	4.84	1.00	5.79	1.18	6.73	1.37	7.20	1.47	7.67	1.57	8.61	1.78	9.56	1.99
	20	4.84	1.01	5.79	1.20	6.73	1.39	7.20	1.50	7.67	1.60	8.61	1.81	9.56	2.04
	21	4.84	1.02	5.79	1.21	6.73	1.41	7.20	1.51	7.67	1.61	8.61	1.83	9.56	2.06
	23	4.84	1.04	5.79	1.23	6.73	1.43	7.20	1.54	7.67	1.64	8.61	1.90	9.56	2.19
	25	4.84	1.06	5.79	1.25	6.73	1.49	7.20	1.61	7.67	1.75	8.61	2.03	9.56	2.33
	27	4.84	1.10	5.79	1.33	6.73	1.58	7.20	1.72	7.67	1.86	8.61	2.16	9.56	2.49
	29	4.84	1.16	5.79	1.41	6.73	1.69	7.20	1.83	7.67	1.98	8.61	2.31	9.56	2.66
	31	4.84	1.23	5.79	1.49	6.73	1.79	7.20	1.95	7.67	2.11	8.61	2.46	9.56	2.83
	33	4.84	1.30	5.79	1.58	6.73	1.90	7.20	2.07	7.67	2.24	8.61	2.61	9.56	3.02
	35	4.84	1.38	5.79	1.68	6.73	2.01	7.20	2.20	7.67	2.38	8.61	2.78	9.56	3.21
	37	4.84	1.46	5.79	1.78	6.73	2.13	7.20	2.33	7.67	2.53	8.61	2.96	9.56	3.42
39	4.84	1.53	5.79	1.88	6.73	2.26	7.20	2.47	7.67	2.69	8.61	3.14	9.56	3.64	
42	4.84	1.60	5.79	1.99	6.73	2.37	7.20	2.60	7.67	2.82	8.61	3.34	9.56	3.86	
44	4.84	1.67	5.79	2.10	6.73	2.48	7.20	2.69	7.67	2.95	8.61	3.52	9.56	4.08	
46	4.84	1.75	5.79	2.20	6.73	2.57	7.20	2.80	7.67	3.10	8.61	3.65	9.56	4.30	
50%	10	4.05	0.81	4.84	0.94	5.61	1.07	6.00	1.15	6.39	1.21	7.16	1.36	7.97	1.52
	12	4.05	0.82	4.84	0.95	5.61	1.09	6.00	1.16	6.39	1.24	7.16	1.39	7.97	1.55
	14	4.05	0.83	4.84	0.96	5.61	1.10	6.00	1.18	6.39	1.26	7.16	1.41	7.97	1.58
	16	4.05	0.84	4.84	0.98	5.61	1.12	6.00	1.20	6.39	1.27	7.16	1.44	7.97	1.60
	18	4.05	0.86	4.84	0.99	5.61	1.14	6.00	1.22	6.39	1.30	7.16	1.46	7.97	1.63
	20	4.05	0.87	4.84	1.01	5.61	1.16	6.00	1.24	6.39	1.32	7.16	1.49	7.97	1.66
	21	4.05	0.87	4.84	1.02	5.61	1.17	6.00	1.25	6.39	1.33	7.16	1.50	7.97	1.68
	23	4.05	0.89	4.84	1.03	5.61	1.19	6.00	1.27	6.39	1.36	7.16	1.53	7.97	1.72
	25	4.05	0.90	4.84	1.05	5.61	1.21	6.00	1.30	6.39	1.40	7.16	1.61	7.97	1.83
	27	4.05	0.92	4.84	1.09	5.61	1.28	6.00	1.38	6.39	1.49	7.16	1.71	7.97	1.95
	29	4.05	0.96	4.84	1.15	5.61	1.36	6.00	1.47	6.39	1.58	7.16	1.82	7.97	2.08
	31	4.05	1.02	4.84	1.22	5.61	1.44	6.00	1.56	6.39	1.68	7.16	1.93	7.97	2.21
	33	4.05	1.08	4.84	1.29	5.61	1.53	6.00	1.65	6.39	1.78	7.16	2.06	7.97	2.35
	35	4.05	1.14	4.84	1.36	5.61	1.61	6.00	1.75	6.39	1.89	7.16	2.18	7.97	2.50
	37	4.05	1.20	4.84	1.44	5.61	1.71	6.00	1.85	6.39	2.00	7.16	2.32	7.97	2.66
39	4.05	1.27	4.84	1.52	5.61	1.81	6.00	1.96	6.39	2.12	7.16	2.46	7.97	2.82	
42	4.05	1.34	4.84	1.61	5.61	1.89	6.00	2.08	6.39	2.24	7.16	2.63	7.97	2.99	
44	4.05	1.41	4.84	1.70	5.61	1.98	6.00	2.20	6.39	2.30	7.16	2.81	7.97	3.17	
46	4.05	1.47	4.84	1.78	5.61	2.07	6.00	2.31	6.39	2.37	7.16	2.98	7.97	3.34	

Note:

- 1, is shown as reference
- 2, In cooling mode, avoid the outdoor air temperature range from 42-46 degree C, when selecting the models
- 3, The above table shows the average value of conditions may operate
- 4, It is recommended to connect less than 130%

Heating

Combinati on (%) (Capacity index)	Outdoor Air temperature(°C DB)		Indoor temperature(°C WB)											
			16		18		20		21		22		24	
			TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
°C DB	°C	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	
130%	-19.8	-20	8.55	2.68	8.51	2.87	8.47	3.06	8.47	3.16	8.42	3.25	8.42	3.44
	-18.8	-19	8.67	2.74	8.63	2.93	8.63	3.12	8.59	3.21	8.59	3.30	8.55	3.49
	-16.7	-17	9.01	2.87	8.97	3.05	8.92	3.23	8.92	3.32	8.92	3.41	8.88	3.59
	-13.7	-15	9.39	3.01	9.35	3.18	9.30	3.35	9.30	3.43	9.26	3.52	9.26	3.70
	-11.8	-13	9.76	3.14	9.76	3.31	9.72	3.47	9.68	3.55	9.68	3.64	9.64	3.80
	-9.8	-11	10.23	3.28	10.18	3.43	10.14	3.59	10.14	3.67	10.14	3.75	10.10	3.91
	-9.5	-10	10.48	3.35	10.43	3.50	10.39	3.65	10.39	3.73	10.35	3.81	10.35	3.96
	-8.5	-9.1	10.68	3.41	10.64	3.55	10.64	3.71	10.60	3.78	10.60	3.85	10.56	4.01
	-7	-7.6	11.06	3.50	11.06	3.65	11.02	3.80	11.02	3.87	10.98	3.94	10.94	4.09
	-5	-5.6	11.65	3.64	11.61	3.78	11.56	3.91	11.56	3.98	11.52	4.05	11.52	4.18
	-3	-3.7	12.19	3.76	12.15	3.89	12.15	4.02	12.11	4.09	12.11	4.15	12.07	4.28
	0	-0.7	13.16	3.94	13.16	4.06	13.12	4.18	13.12	4.22	13.07	4.30	13.07	4.42
	3	2.2	14.20	4.10	14.16	4.21	14.12	4.33	14.12	4.38	14.12	4.44	14.08	4.55
	5	4.1	14.92	4.20	14.88	4.31	14.88	4.42	14.83	4.47	14.83	4.53	14.79	4.63
	7	6	15.67	4.30	15.63	4.40	15.63	4.51	15.59	4.56	15.59	4.60	14.96	4.42
9	7.9	16.47	4.39	16.43	4.49	16.43	4.58	16.39	4.63	16.05	4.54	14.96	4.16	
11	9.8	17.31	4.48	17.27	4.57	17.18	4.63	16.59	4.45	16.05	4.26	14.96	3.91	
13	11.8	18.23	4.56	18.19	4.65	17.18	4.34	16.59	4.17	16.05	4.00	14.96	3.67	
15	13.7	19.11	4.64	18.27	4.41	17.18	4.09	16.59	3.93	16.05	3.77	14.96	3.46	
120%	-19.8	-20	8.51	2.94	8.46	3.11	8.42	3.29	8.42	3.38	8.42	3.46	8.38	3.64
	-18.8	-19	8.63	3.00	8.59	3.17	8.59	3.34	8.55	3.43	8.55	3.51	8.51	3.69
	-16.7	-17	8.97	3.11	8.93	3.28	8.87	3.44	8.88	3.53	8.88	3.61	8.84	3.78
	-13.7	-15	9.35	3.24	9.30	3.40	9.26	3.55	9.26	3.64	9.26	3.72	9.22	3.87
	-11.8	-13	9.72	3.36	9.72	3.51	9.68	3.67	9.68	3.75	9.64	3.82	9.64	3.97
	-9.8	-11	10.18	3.49	10.14	3.63	10.14	3.78	10.10	3.85	10.10	3.92	10.06	4.07
	-9.5	-10	10.44	3.55	10.39	3.70	10.35	3.83	10.35	3.91	10.35	3.98	10.31	4.12
	-8.5	-9.1	10.64	3.61	10.60	3.75	10.60	3.88	10.56	3.95	10.56	4.03	10.52	4.17
	-7	-7.6	11.02	3.70	11.02	3.83	10.98	3.97	10.98	4.04	10.94	4.10	10.94	4.23
	-5	-5.6	11.61	3.82	11.57	3.95	11.52	4.08	11.52	4.14	11.52	4.20	11.48	4.33
	-3	-3.7	12.15	3.93	12.15	4.06	12.11	4.18	12.11	4.23	12.07	4.30	12.07	4.42
	0	-0.7	13.12	4.10	13.12	4.21	13.07	4.32	13.07	4.38	13.03	4.44	13.03	4.55
	3	2.2	14.16	4.25	14.12	4.36	14.12	4.46	14.08	4.52	14.08	4.57	13.79	4.54
	5	4.1	14.88	4.35	14.83	4.45	14.83	4.55	14.79	4.59	14.79	4.64	13.79	4.26
	7	6	15.63	4.44	15.63	4.53	15.59	4.62	15.34	4.56	14.83	4.37	13.79	4.01
9	7.9	16.43	4.53	16.39	4.61	15.84	4.46	15.34	4.28	14.83	4.11	13.79	3.78	
11	9.8	17.27	4.60	16.85	4.53	15.84	4.20	15.34	4.03	14.83	3.87	13.79	3.56	
13	11.8	17.89	4.56	16.85	4.24	15.84	3.93	15.34	3.79	14.83	3.64	13.79	3.35	
15	13.7	17.89	4.29	16.85	4.00	15.84	3.71	15.34	3.57	14.83	3.43	13.79	3.16	
110%	-19.8	-20	8.46	3.20	8.42	3.36	8.38	3.52	8.38	3.60	8.38	3.68	8.34	3.84
	-18.8	-19	8.59	3.25	8.55	3.41	8.55	3.56	8.55	3.64	8.51	3.72	8.51	3.88
	-16.7	-17	8.93	3.36	8.88	3.51	9.01	3.66	8.84	3.74	8.84	3.81	8.80	3.96
	-13.7	-15	9.30	3.47	9.26	3.62	9.22	3.76	9.22	3.83	9.22	3.91	9.18	4.05
	-11.8	-13	9.68	3.59	9.68	3.73	9.64	3.86	9.64	3.93	9.60	4.00	9.60	4.15
	-9.8	-11	10.14	3.70	10.10	3.83	10.10	3.97	10.06	4.04	10.06	4.10	10.06	4.23
	-9.5	-10	10.39	3.76	10.35	3.89	10.31	4.02	10.31	4.09	10.31	4.15	10.27	4.28
	-8.5	-9.1	10.60	3.81	10.56	3.94	10.56	4.07	10.52	4.13	10.52	4.19	10.52	3.82
	-7	-7.6	10.98	3.90	10.98	4.02	10.94	4.14	10.94	4.20	10.94	4.26	10.90	4.39
	-5	-5.6	11.57	4.01	11.52	4.13	11.48	4.24	11.48	4.30	11.48	4.36	11.44	4.48
	-3	-3.7	12.11	4.11	12.11	4.22	12.07	4.33	12.07	4.39	12.03	4.44	12.03	4.56
	0	-0.7	13.07	4.26	13.07	4.37	13.03	4.47	13.03	4.52	13.03	4.57	12.66	4.49
	3	2.2	14.12	4.41	14.08	4.50	14.08	4.59	14.04	4.64	13.58	4.45	12.66	4.08
	5	4.1	14.83	4.49	14.83	4.58	14.54	4.54	14.04	4.36	13.58	4.19	12.66	3.84
	7	6	15.59	4.57	15.46	4.60	14.54	4.26	14.04	4.10	13.58	3.93	12.66	3.61
9	7.9	16.38	4.65	15.46	4.33	14.54	4.01	14.04	3.85	13.58	3.70	12.66	3.41	
11	9.8	16.38	4.37	15.46	4.07	14.54	3.78	14.04	3.63	13.58	3.49	12.66	3.21	
13	11.8	16.38	4.10	15.46	3.82	14.54	3.55	14.04	3.42	13.58	3.28	12.66	3.03	
15	13.7	16.38	3.64	15.46	3.60	14.54	3.35	14.04	3.22	13.58	3.10	12.66	2.86	
100%	-19.8	-20	8.42	3.45	8.38	3.60	8.38	3.75	8.34	3.82	8.34	3.89	8.30	4.04
	-18.8	-19	8.55	3.50	8.55	3.64	8.51	3.79	8.51	3.86	8.47	3.93	8.47	4.08
	-16.7	-17	8.88	3.60	8.84	3.74	8.84	3.87	8.80	3.94	8.80	4.01	8.80	4.15

	-13.7	-15	9.26	3.70	9.22	3.83	9.18	3.97	9.18	4.04	9.18	4.10	9.14	4.23
	-11.8	-13	9.64	3.81	9.64	3.93	9.60	4.06	9.60	4.13	9.60	4.19	9.55	4.32
	-9.8	-11	10.10	3.91	10.06	4.04	10.06	4.16	10.06	4.22	10.01	4.28	10.01	4.40
	-9.5	-10	10.35	3.97	10.31	4.09	10.31	4.20	10.27	4.26	10.27	4.32	10.22	4.44
	-8.5	-9.1	10.56	4.01	10.52	4.13	10.52	4.24	10.52	4.30	10.48	4.36	10.48	4.48
	-7	-7.6	10.94	4.09	10.94	4.20	10.90	4.31	10.90	4.37	10.90	4.43	10.85	4.54
	-5	-5.6	11.52	4.19	11.48	4.30	11.48	4.41	11.44	4.46	11.44	4.51	11.40	4.62
	-3	-3.7	12.07	4.29	12.07	3.89	12.03	4.49	12.03	4.54	12.03	4.59	11.52	4.40
	0	-0.7	13.03	4.43	13.03	4.52	12.99	4.61	12.78	4.54	12.36	4.35	11.52	3.99
	3	2.2	14.08	4.56	14.04	4.64	13.20	4.29	12.78	4.13	12.36	3.96	11.52	3.64
	5	4.1	14.79	4.64	14.04	4.36	13.20	4.04	12.78	3.88	12.36	3.73	11.52	3.43
	7	6	14.88	4.40	14.04	4.10	13.20	3.80	12.78	3.66	12.36	3.51	11.52	3.23
	9	7.9	14.88	4.14	14.04	3.85	13.20	3.58	12.78	3.40	12.36	3.31	11.52	3.05
	11	9.8	14.88	3.89	14.04	3.63	13.20	3.38	12.78	3.25	12.36	3.12	11.52	2.88
	13	11.8	14.88	3.66	14.04	3.42	13.20	3.18	12.78	3.06	12.36	2.95	11.52	2.72
	15	13.7	14.88	3.45	14.04	3.22	13.20	3.00	12.78	2.89	12.36	2.78	11.52	2.58
90%	-19.8	-20	8.37	3.71	8.32	3.84	8.32	3.97	8.28	4.04	8.28	4.11	8.28	4.23
	-18.8	-19	8.49	3.75	8.49	3.88	8.45	4.01	8.45	4.08	8.45	4.14	8.41	4.27
	-16.7	-17	8.83	3.84	8.78	3.97	8.78	4.09	8.78	4.16	8.74	4.21	8.74	4.34
	-13.7	-15	9.20	3.94	9.16	4.06	9.16	4.17	9.12	4.23	9.12	4.29	9.12	4.41
	-11.8	-13	9.58	4.03	9.58	4.15	9.54	4.26	9.54	4.32	9.54	4.37	9.50	4.49
	-9.8	-11	10.04	4.13	10.04	4.23	10.00	4.34	10.00	4.40	10.00	4.46	9.96	4.56
	-9.5	-10	10.29	4.17	10.25	4.28	10.25	4.39	10.21	4.44	10.21	4.50	10.21	4.60
	-8.5	-9.1	10.50	4.22	10.50	4.32	10.46	4.43	10.46	4.48	10.46	4.53	10.33	4.57
	-7	-7.6	10.88	4.29	10.88	4.39	10.83	4.49	10.83	4.54	10.83	4.59	10.33	4.37
	-5	-5.6	11.46	4.38	11.42	4.48	11.42	4.57	11.38	4.62	11.09	4.48	10.33	4.11
	-3	-3.7	12.01	4.47	12.01	4.56	11.88	4.57	11.46	4.39	11.09	4.21	10.33	3.87
	0	-0.7	13.01	4.59	12.63	4.48	11.88	4.15	11.46	3.99	11.09	3.83	10.33	3.52
	3	2.2	13.39	4.38	12.63	4.08	11.88	3.78	11.46	3.64	11.09	3.49	10.33	3.22
	5	4.1	13.39	4.12	12.63	3.83	11.88	3.56	11.46	3.42	11.09	3.30	10.33	3.03
	7	6	13.39	3.87	12.63	3.61	11.88	3.36	11.46	3.23	11.09	3.11	10.33	2.87
9	7.9	13.39	3.65	12.63	3.40	11.88	3.16	11.46	3.05	11.09	2.94	10.33	2.71	
11	9.8	13.39	3.43	12.63	3.21	11.88	2.99	11.46	2.88	11.09	2.77	10.33	2.57	
13	11.8	13.39	3.23	12.63	3.03	11.88	2.82	11.46	2.72	11.09	2.62	10.33	2.42	
15	13.7	13.39	3.05	12.63	2.86	11.88	2.67	11.46	2.58	11.09	2.48	10.33	2.30	
80%	-19.8	-20	8.34	3.97	8.30	4.08	8.30	4.20	8.30	4.26	8.25	4.32	8.25	4.43
	-18.8	-19	8.46	4.00	8.46	4.12	8.42	4.23	8.42	4.29	8.42	4.35	8.38	4.47
	-16.7	-17	8.80	4.09	8.76	4.19	8.76	4.31	8.76	4.36	8.76	4.42	8.72	4.53
	-13.7	-15	9.18	4.17	9.14	4.27	9.14	4.38	9.14	4.43	9.09	4.49	9.09	4.59
	-11.8	-13	9.55	4.25	9.55	4.36	9.51	4.46	9.51	4.51	9.51	4.56	9.22	4.44
	-9.8	-11	10.02	4.34	10.02	4.44	9.97	4.54	9.97	4.58	9.89	4.57	9.22	4.19
	-9.5	-10	10.27	4.38	10.22	4.48	10.23	4.57	10.23	4.62	9.89	4.44	9.22	4.07
	-8.5	-9.1	10.48	4.42	9.74	4.52	10.43	4.60	10.23	4.50	9.89	4.32	9.22	3.96
	-7	-7.6	10.85	4.49	10.85	4.57	10.56	4.48	10.23	4.30	9.89	4.13	9.22	3.78
	-5	-5.6	11.44	4.56	11.23	4.54	10.56	4.20	10.23	4.04	9.89	3.88	9.22	3.56
	-3	-3.7	11.90	4.59	11.23	4.27	10.56	3.96	10.23	3.81	9.89	3.66	9.22	3.37
	0	-0.7	11.90	4.17	11.23	3.88	10.56	3.60	10.23	3.47	9.89	3.33	9.22	3.07
	3	2.2	11.90	3.79	11.23	3.54	10.56	3.29	10.23	3.17	9.89	3.05	9.22	2.81
	5	4.1	11.90	3.57	11.23	3.34	10.56	3.10	10.23	2.99	9.89	2.88	9.22	2.66
	7	6	11.90	3.37	11.23	3.15	10.56	2.93	10.23	2.83	9.89	2.72	9.22	2.52
9	7.9	11.90	3.18	11.23	2.97	10.56	2.77	10.23	2.67	9.89	2.58	9.22	2.38	
11	9.8	11.90	3.00	11.23	2.81	10.56	2.62	10.23	2.53	9.89	2.44	9.22	2.26	
13	11.8	11.90	2.83	11.23	2.65	10.56	2.48	10.23	2.39	9.89	2.30	9.22	2.14	
15	13.7	11.90	2.67	11.23	2.51	10.56	2.35	10.23	2.27	9.89	2.19	9.22	2.03	
70%	-19.8	-20	8.28	4.22	8.24	4.32	8.24	4.43	8.24	4.48	8.24	4.53	8.03	4.48
	-18.8	-19	8.40	4.26	8.40	4.36	8.36	4.46	8.36	4.51	8.36	4.56	8.03	4.39
	-16.7	-17	8.74	4.33	8.74	4.43	8.70	4.52	8.70	4.57	8.61	4.07	8.03	4.18
	-13.7	-15	9.11	4.40	9.07	4.50	9.07	4.59	8.91	4.52	8.61	4.34	8.03	3.98
	-11.8	-13	9.49	4.48	9.49	4.56	9.24	4.46	8.91	4.28	8.61	4.11	8.03	3.77
	-9.8	-11	9.95	4.55	9.82	4.54	9.24	4.21	8.91	4.05	8.61	3.88	8.03	3.57
	-9.5	-10	10.20	4.59	9.82	4.41	9.24	4.09	8.91	3.93	8.61	3.78	8.03	3.47
	-8.5	-9.1	10.41	4.61	9.82	4.29	9.24	3.98	8.91	3.82	8.61	3.68	8.03	3.38
	-7	-7.6	10.41	4.41	9.82	4.10	9.24	3.80	8.91	3.66	8.61	3.52	8.03	3.24
	-5	-5.6	10.41	4.14	9.82	3.86	9.24	3.58	8.91	3.44	8.61	4.07	8.03	3.05
-3	-3.7	10.41	3.90	9.82	3.64	9.24	3.38	8.91	3.25	8.61	3.13	8.03	2.89	

	0	-0.7	10.41	3.55	9.82	3.32	9.24	3.08	8.91	2.97	8.61	2.86	8.03	2.65
	3	2.2	10.41	3.24	9.82	3.03	9.24	2.83	8.91	2.72	8.61	2.63	8.03	2.43
	5	4.1	10.41	3.06	9.82	2.86	9.24	2.67	8.91	2.58	8.61	2.48	8.03	2.30
	7	6	10.41	2.89	9.82	2.71	9.24	2.53	8.91	2.44	8.61	2.35	8.03	2.18
	9	7.9	10.41	2.73	9.82	2.56	9.24	2.39	8.91	2.31	8.61	2.23	8.03	2.07
	11	9.8	10.41	2.59	9.82	2.42	9.24	2.27	8.91	2.19	8.61	2.12	8.03	1.96
	13	11.8	10.41	2.44	9.82	2.29	9.24	2.15	8.91	2.08	8.61	2.00	8.03	1.87
	15	13.7	10.41	2.31	9.82	2.18	9.24	2.04	8.91	1.97	8.61	1.90	8.03	1.78
60%	-19.8	-20	8.26	4.48	8.21	4.56	7.92	4.39	7.67	4.22	7.42	4.05	6.91	3.72
	-18.8	-19	8.38	4.51	8.38	4.59	7.92	4.30	7.67	4.13	7.42	3.96	6.91	3.64
	-16.7	-17	8.72	4.57	8.42	4.43	7.92	4.10	7.67	3.94	7.42	3.78	6.91	3.48
	-13.7	-15	8.93	4.52	8.42	4.20	7.92	3.90	7.67	3.75	7.42	3.60	6.91	3.31
	-11.8	-13	8.93	4.28	8.42	3.98	7.92	3.70	7.67	3.56	7.42	3.42	6.91	3.16
	-9.8	-11	8.93	4.04	8.42	3.77	7.92	3.50	7.67	3.37	7.42	3.24	6.91	2.99
	-9.5	-10	8.93	3.93	8.42	3.66	7.92	3.40	7.67	3.28	7.42	3.15	6.91	2.90
	-8.5	-9.1	8.93	3.82	8.42	3.57	7.92	3.32	7.67	3.19	7.42	3.07	6.91	2.83
	-7	-7.6	8.93	3.66	8.42	3.41	7.92	3.17	7.67	3.06	7.42	2.94	6.91	2.72
	-5	-5.6	8.93	3.44	8.42	3.22	7.92	3.00	7.67	2.89	7.42	2.78	6.91	2.57
	-3	-3.7	8.93	3.25	8.42	3.04	7.92	2.83	7.67	2.73	7.42	2.63	6.91	2.43
	0	-0.7	8.93	2.97	8.42	2.78	7.92	2.60	7.67	2.51	7.42	2.41	6.91	2.24
	3	2.2	8.93	2.72	8.42	2.56	7.92	2.39	7.67	2.30	7.42	2.23	6.91	2.06
	5	4.1	8.93	2.58	8.42	2.42	7.92	2.26	7.67	2.19	7.42	2.11	6.91	1.96
	7	6	8.93	2.44	8.42	2.29	7.92	2.14	7.67	2.07	7.42	2.00	6.91	1.86
	9	7.9	8.93	2.31	8.42	2.17	7.92	2.03	7.67	1.97	7.42	1.90	6.91	1.77
	11	9.8	8.93	2.19	8.42	2.06	7.92	1.93	7.67	1.87	7.42	1.81	6.91	1.69
	13	11.8	8.93	2.07	8.42	1.95	7.92	1.84	7.67	1.78	7.42	1.72	6.91	1.60
15	13.7	8.93	1.97	8.42	1.86	7.92	1.75	7.67	1.69	7.42	1.64	6.91	1.53	
50%	-19.8	-20	7.44	4.08	7.02	3.79	6.60	3.52	6.35	3.40	6.14	3.26	5.72	3.01
	-18.8	-19	7.44	3.99	7.02	3.72	6.60	3.45	6.35	3.32	6.14	3.19	5.72	2.95
	-16.7	-17	7.44	3.80	7.02	3.55	6.60	3.30	6.35	3.18	6.14	3.06	5.72	2.82
	-13.7	-15	7.44	3.62	7.02	3.38	6.60	3.14	6.35	3.03	6.14	2.92	5.72	2.69
	-11.8	-13	7.44	3.44	7.02	3.21	6.60	2.99	6.35	2.88	6.14	2.77	5.72	2.57
	-9.8	-11	7.44	3.26	7.02	3.04	6.60	2.84	6.35	2.73	6.14	2.64	5.72	2.44
	-9.5	-10	7.44	3.17	7.02	2.96	6.60	2.76	6.35	2.66	6.14	2.57	5.72	2.37
	-8.5	-9.1	7.44	3.09	7.02	2.89	6.60	2.69	6.35	2.60	6.14	2.51	5.72	2.32
	-7	-7.6	7.44	2.96	7.02	2.77	6.60	2.59	6.35	2.50	6.14	2.41	5.72	2.23
	-5	-5.6	7.44	2.79	7.02	2.62	6.60	2.45	6.35	2.36	6.14	2.28	5.72	2.11
	-3	-3.7	7.44	2.65	7.02	2.48	6.60	2.32	6.35	2.24	6.14	2.16	5.72	2.01
	0	-0.7	7.44	2.43	7.02	2.28	6.60	2.14	6.35	2.06	6.14	1.99	5.72	1.86
	3	2.2	7.44	2.24	7.02	2.10	6.60	1.97	6.35	1.90	6.14	1.84	5.72	1.72
	5	4.1	7.44	2.12	7.02	1.99	6.60	1.87	6.35	1.81	6.14	1.75	5.72	1.63
	7	6	7.44	2.01	7.02	1.89	6.60	1.78	6.35	1.72	6.14	1.67	5.72	1.56
	9	7.9	7.44	1.91	7.02	1.80	6.60	1.69	6.35	1.64	6.14	1.59	5.72	1.49
	11	9.8	7.44	1.82	7.02	1.71	6.60	1.61	6.35	1.56	6.14	1.51	5.72	1.42
	13	11.8	7.44	1.73	7.02	1.63	6.60	1.53	6.35	1.49	6.14	1.44	5.72	1.35
15	13.7	7.44	1.64	7.02	1.55	6.60	1.47	6.35	1.42	6.14	1.38	5.72	1.29	

Note:

- 1, [] is shown as reference
- 2, In heating mode, avoid the outdoor air temperature range from -15 to -20 degree C, when selecting the models
- 3, The above table shows the average value of conditions may operate
- 4, It is recommended to connect less than 130%

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Cooling

Combinati on (%) (Capacity index)	Outdoor Air temperature(°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
130%	10	12.30	2.30	14.65	2.82	17.00	3.35	17.65	3.42	17.85	3.36	18.30	3.21	18.75	3.07
	12	12.30	2.35	14.65	2.87	17.00	3.42	17.40	3.40	17.65	3.34	18.05	3.19	18.50	3.14
	14	12.30	2.39	14.65	2.92	16.95	3.46	17.20	3.42	17.40	3.32	17.85	3.29	18.30	3.32
	16	12.30	2.43	14.65	2.99	16.75	3.44	16.95	3.39	17.15	3.43	17.60	3.46	18.05	3.50
	18	12.30	2.48	14.65	3.05	16.50	3.57	16.70	3.59	16.95	3.61	17.40	3.65	17.85	3.68
	20	12.30	2.53	14.65	3.24	16.25	3.75	16.50	3.77	16.70	3.79	17.15	3.82	17.60	3.86
	21	12.30	2.60	14.65	3.36	16.15	3.83	16.40	3.85	16.60	3.88	17.05	3.92	17.50	3.95
	23	12.30	2.79	14.65	3.60	15.95	4.01	16.15	4.03	16.35	4.05	16.80	4.09	17.25	4.13
	25	12.30	2.98	14.65	3.85	15.70	4.18	15.90	4.21	16.15	4.23	16.60	4.27	17.05	4.31
	27	12.30	3.18	14.65	4.12	15.50	4.36	15.70	4.39	15.90	4.41	16.35	4.45	16.80	4.50
	29	12.30	3.40	14.65	4.41	15.25	4.54	15.45	4.56	15.70	4.59	16.15	4.64	16.60	4.68
	31	12.30	3.63	14.60	4.66	15.00	4.72	15.25	4.74	15.45	4.76	15.90	4.82	16.35	4.87
	33	12.30	3.86	14.35	4.84	14.80	4.89	15.00	4.92	15.25	4.95	15.70	5.00	16.10	5.05
	35	12.30	4.12	14.10	5.01	14.55	5.07	14.80	5.10	15.00	5.13	15.45	5.19	15.90	5.24
	37	12.30	4.38	13.90	5.20	14.35	5.26	14.55	5.28	14.80	5.32	15.20	5.38	15.65	5.44
	39	12.30	4.66	13.65	5.25	14.10	5.43	14.35	5.47	14.55	5.50	15.00	5.56	15.45	5.63
42	12.30	4.91	13.51	5.30	13.95	5.48	14.20	5.52	14.40	5.55	14.85	5.57	14.86	5.68	
44	12.30	5.16	13.37	5.35	13.80	5.51	14.05	5.57	14.11	5.57	14.31	5.59	14.50	5.70	
46	12.30	5.41	13.31	5.40	13.66	5.58	13.91	5.59	13.99	5.60	14.06	5.61	14.28	5.89	
120%	10	11.35	2.10	13.50	2.57	15.70	3.05	16.80	3.30	17.60	3.44	18.00	3.31	18.40	3.18
	12	11.35	2.14	13.50	2.61	15.70	3.11	16.80	3.36	17.35	3.42	17.75	3.30	18.15	3.16
	14	11.35	2.18	13.50	2.67	15.70	3.17	16.80	3.43	17.10	3.40	17.55	3.28	17.95	3.30
	16	11.35	2.22	13.50	2.72	15.70	3.23	16.70	3.46	16.90	3.41	17.30	3.44	17.70	3.47
	18	11.35	2.26	13.50	2.78	15.70	3.34	16.45	3.57	16.65	3.58	17.05	3.62	17.50	3.65
	20	11.35	2.31	13.50	2.88	15.70	3.60	16.25	3.75	16.45	3.76	16.85	3.79	17.25	3.83
	21	11.35	2.33	13.50	2.99	15.70	3.73	16.10	3.83	16.30	3.85	16.75	3.88	17.15	3.92
	23	11.35	2.49	13.50	3.20	15.70	3.99	15.90	4.00	16.10	4.02	16.50	4.06	16.90	4.10
	25	11.35	2.66	13.50	3.42	15.45	4.16	15.65	4.18	15.85	4.20	16.30	4.24	16.70	4.28
	27	11.35	2.84	13.50	3.66	15.25	4.33	15.45	4.36	15.65	4.38	16.05	4.42	16.45	4.46
	29	11.35	3.03	13.50	3.91	15.00	4.51	15.20	4.53	15.40	4.56	15.80	4.60	16.25	4.64
	31	11.35	3.23	13.50	4.17	14.75	4.69	15.00	4.71	15.20	4.74	15.60	4.78	16.00	4.83
	33	11.35	3.44	13.50	4.45	14.55	4.87	14.75	4.89	14.95	4.91	15.35	4.97	15.75	5.01
	35	11.35	3.67	13.50	4.74	14.30	5.04	14.50	5.07	14.75	5.09	15.15	5.15	15.55	5.20
	37	11.35	3.90	13.50	5.05	14.10	5.22	14.30	5.25	14.50	5.28	14.90	5.33	15.30	5.39
	39	11.35	4.15	13.45	5.34	13.85	5.40	14.05	5.43	14.25	5.46	14.70	5.52	15.10	5.57
42	11.35	4.30	13.31	5.39	13.71	5.45	13.91	5.48	14.11	5.51	14.55	5.54	14.52	5.63	
44	11.35	4.35	13.23	5.44	13.56	5.49	13.76	5.50	13.96	5.52	14.12	5.56	14.36	5.83	
46	11.35	4.40	13.16	5.49	13.44	5.55	13.62	5.59	13.86	5.59	13.97	5.57	14.23	5.88	
110%	10	10.40	1.91	12.40	2.32	14.40	2.76	15.40	2.99	16.40	3.21	17.65	3.41	18.05	3.30
	12	10.40	1.95	12.40	2.37	14.40	2.82	15.40	3.05	16.40	3.28	17.45	3.40	17.80	3.28
	14	10.40	1.98	12.40	2.41	14.40	2.87	15.40	3.10	16.40	3.34	17.20	3.38	17.60	3.27
	16	10.40	2.02	12.40	2.46	14.40	2.92	15.40	3.16	16.40	3.40	17.00	3.42	17.35	3.45
	18	10.40	2.06	12.40	2.51	14.40	2.99	15.40	3.25	16.40	3.57	16.75	3.59	17.15	3.63
	20	10.40	2.10	12.40	2.56	14.40	3.16	15.40	3.49	16.15	3.74	16.55	3.77	16.90	3.80
	21	10.40	2.12	12.40	2.63	14.40	3.28	15.40	3.62	16.05	3.83	16.40	3.85	16.80	3.89
	23	10.40	2.22	12.40	2.82	14.40	3.51	15.40	3.88	15.80	4.00	16.20	4.04	16.55	4.07
	25	10.40	2.37	12.40	3.02	14.40	3.75	15.40	4.16	15.60	4.17	15.95	4.21	16.35	4.25
	27	10.40	2.52	12.40	3.23	14.40	4.02	15.15	4.33	15.35	4.35	15.75	4.39	16.10	4.43
	29	10.40	2.69	12.40	3.44	14.40	4.29	14.95	4.51	15.15	4.53	15.50	4.57	15.90	4.61
	31	10.40	2.86	12.40	3.67	14.40	4.58	14.70	4.68	14.90	4.70	15.30	4.74	15.65	4.79
	33	10.40	3.05	12.40	3.92	14.30	4.83	14.50	4.86	14.70	4.88	15.05	4.93	15.45	4.97
	35	10.40	3.24	12.40	4.17	14.05	5.01	14.25	5.03	14.45	5.06	14.80	5.11	15.20	5.16
	37	10.40	3.45	12.40	4.44	13.85	5.19	14.05	5.21	14.20	5.24	14.60	5.29	14.95	5.34
	39	10.40	3.67	12.40	4.73	13.60	5.36	13.80	5.39	14.00	5.42	14.35	5.47	14.75	5.53
42	10.40	3.72	12.40	4.78	13.46	5.41	13.66	5.44	13.86	5.47	14.11	5.52	14.16	5.58	
44	10.40	3.77	12.40	4.83	13.32	5.46	13.52	5.49	13.72	5.52	13.98	5.54	14.02	5.78	
46	10.40	3.86	12.40	4.88	13.19	5.52	13.37	5.57	13.61	5.57	13.82	5.82	13.90	5.84	
100%	10	9.45	1.73	11.25	2.09	13.10	2.47	14.00	2.68	14.90	2.88	16.75	3.29	17.70	3.40
	12	9.45	1.75	11.25	2.13	13.10	2.52	14.00	2.72	14.90	2.93	16.75	3.35	17.45	3.38

	14	9.45	1.79	11.25	2.17	13.10	2.57	14.00	2.78	14.90	2.99	16.75	3.42	17.25	3.36	
	16	9.45	1.82	11.25	2.21	13.10	2.62	14.00	2.83	14.90	3.05	16.65	3.46	17.00	3.42	
	18	9.45	1.85	11.25	2.25	13.10	2.67	14.00	2.88	14.90	3.11	16.45	3.57	16.80	3.60	
	20	9.45	1.89	11.25	2.30	13.10	2.75	14.00	3.03	14.90	3.33	16.20	3.74	16.55	3.77	
	21	9.45	1.91	11.25	2.32	13.10	2.85	14.00	3.14	14.90	3.44	16.10	3.83	16.45	3.86	
	23	9.45	1.95	11.25	2.47	13.10	3.05	14.00	3.36	14.90	3.69	15.90	4.00	16.20	4.04	
	25	9.45	2.08	11.25	2.64	13.10	3.27	14.00	3.61	14.90	3.96	15.65	4.18	16.00	4.21	
	27	9.45	2.22	11.25	2.82	13.10	3.49	14.00	3.85	14.90	4.23	15.40	4.35	15.75	4.39	
	29	9.45	2.37	11.25	3.01	13.10	3.73	14.00	4.12	14.85	4.49	15.20	4.54	15.55	4.57	
	31	9.45	2.52	11.25	3.21	13.10	3.98	14.00	4.39	14.65	4.67	14.95	4.71	15.30	4.75	
	33	9.45	2.68	11.25	3.42	13.10	4.24	14.00	4.69	14.40	4.85	14.75	4.89	15.10	4.93	
	35	9.45	2.84	11.25	3.63	13.10	4.52	14.00	5.00	14.15	5.02	14.50	5.07	14.85	5.11	
	37	9.45	3.03	11.25	3.87	13.10	4.82	13.75	5.18	13.95	5.20	14.30	5.25	14.60	5.29	
	39	9.45	3.21	11.25	4.11	13.10	5.13	13.55	5.35	13.70	5.38	14.05	5.42	14.40	5.48	
	42	9.45	3.41	11.25	4.31	13.10	5.38	13.27	5.40	13.56	5.49	13.73	5.55	14.12	5.63	
	44	9.45	3.61	11.25	4.51	13.10	5.45	12.99	5.50	13.43	5.54	14.05	5.62	13.76	5.68	
	46	9.45	3.81	11.25	4.71	13.10	5.56	12.71	5.55	13.42	5.69	13.49	5.72	13.56	5.78	
	90%	10	8.50	1.54	10.15	1.86	11.80	2.20	12.60	2.37	13.40	2.55	15.05	2.91	16.70	3.28
		12	8.50	1.57	10.15	1.89	11.80	2.24	12.60	2.41	13.40	2.59	15.05	2.96	16.70	3.34
		14	8.50	1.60	10.15	1.93	11.80	2.28	12.60	2.46	13.40	2.64	15.05	3.02	16.70	3.40
16		8.50	1.62	10.15	1.96	11.80	2.32	12.60	2.51	13.40	2.70	15.05	3.08	16.65	3.46	
18		8.50	1.65	10.15	2.00	11.80	2.36	12.60	2.55	13.40	2.75	15.05	3.14	16.45	3.57	
20		8.50	1.68	10.15	2.05	11.80	2.41	12.60	2.61	13.40	2.85	15.05	3.38	16.20	3.74	
21		8.50	1.70	10.15	2.06	11.80	2.45	12.60	2.70	13.40	2.95	15.05	3.50	16.10	3.83	
23		8.50	1.73	10.15	2.14	11.80	2.63	12.60	2.89	13.40	3.17	15.05	3.75	15.85	4.00	
25		8.50	1.83	10.15	2.29	11.80	2.81	12.60	3.09	13.40	3.38	15.05	4.02	15.65	4.18	
27		8.50	1.94	10.15	2.44	11.80	3.00	12.60	3.30	13.40	3.62	15.05	4.30	15.40	4.35	
29		8.50	2.07	10.15	2.60	11.80	3.20	12.60	3.52	13.40	3.87	14.90	4.49	15.20	4.53	
31		8.50	2.20	10.15	2.77	11.80	3.41	12.60	3.76	13.40	4.12	14.65	4.67	14.95	4.71	
33		8.50	2.33	10.15	2.94	11.80	3.64	12.60	4.01	13.40	4.40	14.45	4.85	14.75	4.89	
35		8.50	2.48	10.15	3.13	11.80	3.87	12.60	4.27	13.40	4.69	14.20	5.03	14.50	5.07	
37		8.50	2.63	10.15	3.33	11.80	4.12	12.60	4.55	13.40	5.00	13.95	5.20	14.30	5.24	
39		8.50	2.79	10.15	3.54	11.80	4.39	12.60	4.84	13.40	5.32	13.75	5.38	14.05	5.42	
42	8.50	2.92	10.15	3.76	11.80	4.60	12.60	5.02	13.40	5.37	13.62	5.57	13.92	5.60		
44	8.50	3.13	10.15	3.97	11.80	4.81	12.60	5.19	13.40	5.57	13.55	5.62	13.75	5.68		
46	8.50	3.30	10.15	4.14	11.80	4.98	12.60	5.36	13.40	5.67	13.47	5.68	13.50	5.75		
80%	10	7.55	1.37	9.00	1.64	10.45	1.93	11.20	2.08	11.95	2.22	13.40	2.54	14.85	2.86	
	12	7.55	1.39	9.00	1.66	10.45	1.96	11.20	2.12	11.95	2.27	13.40	2.59	14.85	2.92	
	14	7.55	1.42	9.00	1.70	10.45	1.99	11.20	2.15	11.95	2.31	13.40	2.63	14.85	2.97	
	16	7.55	1.44	9.00	1.73	10.45	2.03	11.20	2.19	11.95	2.35	13.40	2.69	14.85	3.03	
	18	7.55	1.46	9.00	1.76	10.45	2.08	11.20	2.24	11.95	2.40	13.40	2.74	14.85	3.09	
	20	7.55	1.49	9.00	1.79	10.45	2.12	11.20	2.28	11.95	2.45	13.40	2.84	14.85	3.30	
	21	7.55	1.50	9.00	1.81	10.45	2.14	11.20	2.30	11.95	2.50	13.40	2.95	14.85	3.42	
	23	7.55	1.53	9.00	1.85	10.45	2.24	11.20	2.45	11.95	2.68	13.40	3.15	14.85	3.67	
	25	7.55	1.58	9.00	1.96	10.45	2.39	11.20	2.62	11.95	2.86	13.40	3.38	14.85	3.93	
	27	7.55	1.68	9.00	2.09	10.45	2.55	11.20	2.80	11.95	3.05	13.40	3.61	14.85	4.20	
	29	7.55	1.79	9.00	2.22	10.45	2.72	11.20	2.98	11.95	3.26	13.40	3.85	14.85	4.49	
	31	7.55	1.89	9.00	2.37	10.45	2.89	11.20	3.17	11.95	3.48	13.40	4.11	14.60	4.67	
	33	7.55	2.01	9.00	2.51	10.45	3.08	11.20	3.38	11.95	3.70	13.40	4.38	14.40	4.85	
	35	7.55	2.14	9.00	2.68	10.45	3.27	11.20	3.60	11.95	3.94	13.40	4.67	14.15	5.02	
	37	7.55	2.26	9.00	2.84	10.45	3.48	11.20	3.83	11.95	4.20	13.40	4.98	13.95	5.20	
	39	7.55	2.40	9.00	3.03	10.45	3.71	11.20	4.08	11.95	4.47	13.40	5.30	13.70	5.38	
42	7.55	2.47	9.00	3.06	10.45	3.78	11.20	4.22	11.95	4.58	13.40	5.48	13.59	5.50		
44	7.55	2.58	9.00	3.10	10.45	3.85	11.20	4.29	11.95	4.65	13.40	5.52	13.48	5.56		
46	7.55	2.62	9.00	3.13	10.45	3.93	11.20	4.40	11.95	4.74	13.40	5.60	13.36	5.69		
70%	10	6.60	1.21	7.90	1.43	9.15	1.66	9.80	1.79	10.45	1.92	11.70	2.18	13.00	2.45	
	12	6.60	1.22	7.90	1.45	9.15	1.70	9.80	1.83	10.45	1.95	11.70	2.22	13.00	2.50	
	14	6.60	1.24	7.90	1.48	9.15	1.73	9.80	1.85	10.45	1.99	11.70	2.26	13.00	2.55	
	16	6.60	1.26	7.90	1.50	9.15	1.76	9.80	1.89	10.45	2.03	11.70	2.30	13.00	2.59	
	18	6.60	1.28	7.90	1.53	9.15	1.79	9.80	1.93	10.45	2.06	11.70	2.35	13.00	2.65	
	20	6.60	1.30	7.90	1.56	9.15	1.83	9.80	1.96	10.45	2.10	11.70	2.40	13.00	2.72	
	21	6.60	1.31	7.90	1.57	9.15	1.84	9.80	1.98	10.45	2.12	11.70	2.43	13.00	2.82	
	23	6.60	1.33	7.90	1.60	9.15	1.88	9.80	2.05	10.45	2.23	11.70	2.61	13.00	3.02	
	25	6.60	1.36	7.90	1.66	9.15	2.00	9.80	2.19	10.45	2.38	11.70	2.79	13.00	3.23	
27	6.60	1.44	7.90	1.77	9.15	2.14	9.80	2.33	10.45	2.54	11.70	2.98	13.00	3.45		

	29	6.60	1.53	7.90	1.88	9.15	2.27	9.80	2.49	10.45	2.70	11.70	3.17	13.00	3.69
	31	6.60	1.62	7.90	1.99	9.15	2.42	9.80	2.64	10.45	2.88	11.70	3.38	13.00	3.93
	33	6.60	1.72	7.90	2.12	9.15	2.57	9.80	2.81	10.45	3.07	11.70	3.61	13.00	4.19
	35	6.60	1.82	7.90	2.25	9.15	2.73	9.80	2.99	10.45	3.26	11.70	3.84	13.00	4.47
	37	6.60	1.92	7.90	2.39	9.15	2.90	9.80	3.17	10.45	3.47	11.70	4.09	13.00	4.76
	39	6.60	2.04	7.90	2.53	9.15	3.08	9.80	3.38	10.45	3.69	11.70	4.35	13.00	5.07
	42	6.60	2.15	7.90	2.65	9.15	3.20	9.80	3.53	10.45	3.84	11.70	4.59	13.00	5.37
	44	6.60	2.30	7.90	2.80	9.15	3.30	9.80	3.68	10.45	3.99	11.70	4.80	13.00	5.55
	46	6.60	2.40	7.90	2.92	9.15	3.44	9.80	3.80	10.45	4.11	11.70	4.94	13.00	5.67
60%	10	5.65	1.04	6.75	1.23	7.85	1.42	8.40	1.52	8.95	1.62	10.05	1.84	11.15	2.06
	12	5.65	1.06	6.75	1.25	7.85	1.45	8.40	1.55	8.95	1.65	10.05	1.87	11.15	2.10
	14	5.65	1.08	6.75	1.27	7.85	1.47	8.40	1.58	8.95	1.68	10.05	1.91	11.15	2.14
	16	5.65	1.09	6.75	1.29	7.85	1.50	8.40	1.60	8.95	1.71	10.05	1.94	11.15	2.18
	18	5.65	1.11	6.75	1.31	7.85	1.52	8.40	1.63	8.95	1.75	10.05	1.97	11.15	2.22
	20	5.65	1.13	6.75	1.33	7.85	1.55	8.40	1.66	8.95	1.78	10.05	2.01	11.15	2.26
	21	5.65	1.14	6.75	1.34	7.85	1.56	8.40	1.68	8.95	1.79	10.05	2.03	11.15	2.28
	23	5.65	1.15	6.75	1.37	7.85	1.59	8.40	1.71	8.95	1.83	10.05	2.12	11.15	2.43
	25	5.65	1.17	6.75	1.39	7.85	1.65	8.40	1.79	8.95	1.94	10.05	2.26	11.15	2.59
	27	5.65	1.22	6.75	1.48	7.85	1.76	8.40	1.91	8.95	2.07	10.05	2.41	11.15	2.77
	29	5.65	1.29	6.75	1.56	7.85	1.87	8.40	2.03	8.95	2.20	10.05	2.57	11.15	2.96
	31	5.65	1.37	6.75	1.66	7.85	1.99	8.40	2.16	8.95	2.34	10.05	2.73	11.15	3.15
	33	5.65	1.44	6.75	1.76	7.85	2.11	8.40	2.30	8.95	2.49	10.05	2.90	11.15	3.36
	35	5.65	1.53	6.75	1.87	7.85	2.24	8.40	2.44	8.95	2.65	10.05	3.09	11.15	3.57
	37	5.65	1.62	6.75	1.97	7.85	2.37	8.40	2.59	8.95	2.81	10.05	3.29	11.15	3.80
	39	5.65	1.70	6.75	2.09	7.85	2.51	8.40	2.74	8.95	2.98	10.05	3.49	11.15	4.04
42	5.65	1.78	6.75	2.21	7.85	2.64	8.40	2.89	8.95	3.13	10.05	3.71	11.15	4.29	
44	5.65	1.85	6.75	2.33	7.85	2.76	8.40	2.99	8.95	3.27	10.05	3.91	11.15	4.53	
46	5.65	1.95	6.75	2.44	7.85	2.85	8.40	3.11	8.95	3.45	10.05	4.05	11.15	4.77	
50%	10	4.73	0.90	5.65	1.04	6.55	1.19	7.00	1.27	7.45	1.35	8.35	1.52	9.30	1.69
	12	4.73	0.91	5.65	1.06	6.55	1.21	7.00	1.29	7.45	1.37	8.35	1.54	9.30	1.72
	14	4.73	0.92	5.65	1.07	6.55	1.23	7.00	1.31	7.45	1.39	8.35	1.57	9.30	1.75
	16	4.73	0.94	5.65	1.08	6.55	1.25	7.00	1.33	7.45	1.42	8.35	1.60	9.30	1.78
	18	4.73	0.95	5.65	1.10	6.55	1.27	7.00	1.35	7.45	1.44	8.35	1.62	9.30	1.81
	20	4.73	0.96	5.65	1.12	6.55	1.29	7.00	1.37	7.45	1.47	8.35	1.65	9.30	1.85
	21	4.73	0.97	5.65	1.13	6.55	1.30	7.00	1.39	7.45	1.48	8.35	1.67	9.30	1.87
	23	4.73	0.98	5.65	1.15	6.55	1.32	7.00	1.42	7.45	1.51	8.35	1.70	9.30	1.91
	25	4.73	1.00	5.65	1.17	6.55	1.35	7.00	1.44	7.45	1.56	8.35	1.79	9.30	2.03
	27	4.73	1.02	5.65	1.21	6.55	1.42	7.00	1.54	7.45	1.65	8.35	1.90	9.30	2.17
	29	4.73	1.07	5.65	1.28	6.55	1.51	7.00	1.63	7.45	1.76	8.35	2.02	9.30	2.31
	31	4.73	1.13	5.65	1.35	6.55	1.60	7.00	1.73	7.45	1.87	8.35	2.15	9.30	2.46
	33	4.73	1.20	5.65	1.44	6.55	1.70	7.00	1.83	7.45	1.98	8.35	2.28	9.30	2.61
	35	4.73	1.27	5.65	1.52	6.55	1.79	7.00	1.94	7.45	2.10	8.35	2.43	9.30	2.78
	37	4.73	1.33	5.65	1.60	6.55	1.90	7.00	2.05	7.45	2.22	8.35	2.57	9.30	2.95
	39	4.73	1.41	5.65	1.69	6.55	2.01	7.00	2.18	7.45	2.36	8.35	2.73	9.30	3.13
42	4.73	1.49	5.65	1.79	6.55	2.10	7.00	2.31	7.45	2.49	8.35	2.92	9.30	3.33	
44	4.73	1.56	5.65	1.89	6.55	2.20	7.00	2.45	7.45	2.55	8.35	3.12	9.30	3.52	
46	4.73	1.64	5.65	1.98	6.55	2.30	7.00	2.56	7.45	2.63	8.35	3.31	9.30	3.72	

Note:

- 1, [] is shown as reference
- 2, In cooling mode, avoid the outdoor air temperature range from 42-46 degree C, when selecting the models
- 3, The above table shows the average value of conditions may operate
- 4, It is recommended to connect less than 130%

Heating

Combination (%) (Capacity index)	Outdoor Air temperature (°C DB)		Indoor temperature(°C WB)											
			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	
130%	-19.8	-20	9.97	3.39	9.92	3.63	9.88	3.87	9.88	3.99	9.83	4.11	9.83	4.35
	-18.8	-19	10.12	3.47	10.07	3.70	10.07	3.94	10.02	4.06	10.02	4.17	9.97	4.41
	-16.7	-17	10.51	3.63	10.46	3.85	10.41	4.08	10.41	4.20	10.41	4.31	10.36	4.53
	-13.7	-15	10.95	3.80	10.90	4.01	10.85	4.23	10.85	4.34	10.80	4.45	10.80	4.67
	-11.8	-13	11.39	3.96	11.39	4.18	11.34	4.38	11.29	4.49	11.29	4.59	11.24	4.80
	-9.8	-11	11.93	4.14	11.88	4.34	11.83	4.54	11.83	4.64	11.83	4.74	11.78	4.94
	-9.5	-10	12.22	4.23	12.17	4.42	12.12	4.61	12.12	4.71	12.08	4.81	12.08	5.00
	-8.5	-9.1	12.47	4.30	12.42	4.49	12.42	4.68	12.37	4.78	12.37	4.87	12.32	5.06
	-7	-7.6	12.91	4.43	12.91	4.61	12.86	4.79	12.86	4.89	12.81	4.97	12.76	5.16
	-5	-5.6	13.59	4.59	13.54	4.77	13.49	4.94	13.49	5.03	13.44	5.11	13.44	5.29
	-3	-3.7	14.23	4.74	14.18	4.91	14.18	5.07	14.13	5.16	14.13	5.24	14.08	5.40
	0	-0.7	15.35	4.97	15.35	5.13	15.30	5.28	15.30	5.34	15.25	5.44	15.25	5.59
	3	2.2	16.57	5.18	16.52	5.32	16.48	5.47	16.48	5.54	16.48	5.61	16.43	5.75
	5	4.1	17.40	5.31	17.35	5.45	17.35	5.58	17.31	5.65	17.31	5.72	17.26	5.85
	7	6	18.28	5.44	18.24	5.56	18.24	5.69	18.19	5.75	18.19	5.82	17.45	5.59
9	7.9	19.21	5.55	19.16	5.67	19.16	5.79	19.12	5.85	18.72	5.73	17.45	5.25	
11	9.8	20.19	5.66	20.14	5.77	20.04	5.85	19.36	5.62	18.72	5.39	17.45	4.94	
13	11.8	21.27	5.77	21.22	5.88	20.04	5.48	19.36	5.26	18.72	5.06	17.45	4.64	
15	13.7	22.29	5.87	21.32	5.57	20.04	5.16	19.36	4.96	18.72	4.76	17.45	4.38	
120%	-19.8	-20	9.92	3.72	9.88	3.93	9.83	4.16	9.83	4.26	9.83	4.38	9.78	4.60
	-18.8	-19	10.07	3.78	10.02	4.00	10.02	4.22	9.97	4.33	9.97	4.44	9.92	4.66
	-16.7	-17	10.46	3.93	10.41	4.15	10.35	4.35	10.36	4.46	10.36	4.56	10.32	4.77
	-13.7	-15	10.90	4.09	10.85	4.29	10.81	4.49	10.81	4.59	10.81	4.69	10.76	4.89
	-11.8	-13	11.34	4.25	11.34	4.44	11.29	4.63	11.29	4.73	11.25	4.82	11.25	5.02
	-9.8	-11	11.88	4.41	11.83	4.59	11.83	4.78	11.78	4.87	11.78	4.96	11.73	5.14
	-9.5	-10	12.17	4.49	12.13	4.67	12.08	4.84	12.08	4.94	12.08	5.02	12.03	5.21
	-8.5	-9.1	12.42	4.56	12.37	4.73	12.37	4.91	12.32	4.99	12.32	5.09	12.27	5.26
	-7	-7.6	12.86	4.68	12.86	4.84	12.81	5.01	12.81	5.10	12.76	5.18	12.76	5.35
	-5	-5.6	13.54	4.82	13.49	4.99	13.44	5.15	13.44	5.23	13.44	5.31	13.40	5.47
	-3	-3.7	14.18	4.97	14.18	5.12	14.13	5.27	14.13	5.35	14.08	5.43	14.08	5.58
	0	-0.7	15.30	5.18	15.30	5.32	15.25	5.46	15.25	5.54	15.20	5.60	15.20	5.75
	3	2.2	16.53	5.37	16.48	5.50	16.48	5.64	16.43	5.70	16.43	5.77	16.08	5.74
	5	4.1	17.36	5.49	17.31	5.62	17.31	5.74	17.26	5.80	17.26	5.87	16.08	5.39
	7	6	18.24	5.60	18.24	5.72	18.19	5.84	17.89	5.76	17.31	5.52	16.08	5.07
9	7.9	19.17	5.72	19.12	5.83	18.48	5.64	17.89	5.41	17.31	5.19	16.08	4.77	
11	9.8	20.14	5.82	19.65	5.72	18.48	5.30	17.89	5.09	17.31	4.89	16.08	4.49	
13	11.8	20.88	5.76	19.65	5.36	18.48	4.97	17.89	4.78	17.31	4.59	16.08	4.23	
15	13.7	20.88	5.42	19.65	5.05	18.48	4.69	17.89	4.51	17.31	4.33	16.08	3.99	
110%	-19.8	-20	9.88	4.04	9.83	4.24	9.78	4.44	9.78	4.54	9.78	4.64	9.73	4.85
	-18.8	-19	10.02	4.10	9.97	4.30	9.97	4.50	9.97	4.60	9.92	4.70	9.92	4.90
	-16.7	-17	10.41	4.24	10.37	4.43	10.51	4.63	10.32	4.72	10.32	4.82	10.27	5.01
	-13.7	-15	10.85	4.38	10.81	4.57	10.76	4.75	10.76	4.84	10.76	4.94	10.71	5.12
	-11.8	-13	11.29	4.53	11.29	4.71	11.24	4.88	11.24	4.97	11.19	5.06	11.19	5.24
	-9.8	-11	11.83	4.68	11.78	4.84	11.78	5.01	11.73	5.10	11.73	5.18	11.73	5.35
	-9.5	-10	12.12	4.75	12.08	4.91	12.03	5.08	12.03	5.16	12.03	5.24	11.98	5.40
	-8.5	-9.1	12.37	4.81	12.32	4.97	12.32	5.14	12.27	5.22	12.27	5.30	12.27	4.83
	-7	-7.6	12.81	4.93	12.81	5.07	12.76	5.23	12.76	5.31	12.76	5.39	12.71	5.54
	-5	-5.6	13.49	5.06	13.44	5.21	13.40	5.35	13.40	5.43	13.40	5.50	13.35	5.66
	-3	-3.7	14.13	5.19	14.13	5.33	14.08	5.47	14.08	5.54	14.03	5.61	14.03	5.75
	0	-0.7	15.25	5.39	15.25	5.52	15.21	5.65	15.21	5.71	15.21	5.78	14.76	5.67
	3	2.2	16.48	5.57	16.43	5.69	16.43	5.80	16.38	5.86	15.84	5.62	14.76	5.16
	5	4.1	17.31	5.67	17.31	5.79	16.96	5.74	16.38	5.50	15.84	5.29	14.76	4.85
	7	6	18.19	5.78	18.04	5.82	16.96	5.39	16.38	5.17	15.84	4.97	14.76	4.56
9	7.9	19.12	5.87	18.04	5.47	16.96	5.07	16.38	4.87	15.84	4.68	14.76	4.30	
11	9.8	19.12	5.52	18.04	5.14	16.96	4.77	16.38	4.59	15.84	4.41	14.76	4.06	
13	11.8	19.12	5.18	18.04	4.82	16.96	4.48	16.38	4.31	15.84	4.15	14.76	3.82	
15	13.7	19.12	4.60	18.04	4.55	16.96	4.23	16.38	4.07	15.84	3.92	14.76	3.62	
100%	-19.8	-20	9.83	4.36	9.78	4.54	9.78	4.73	9.73	4.82	9.73	4.91	9.68	5.10
	-18.8	-19	9.97	4.42	9.97	4.60	9.92	4.78	9.92	4.87	9.88	4.97	9.88	5.15
	-16.7	-17	10.36	4.54	10.31	4.72	10.31	4.89	10.27	4.98	10.27	5.07	10.27	5.24

	-13.7	-15	10.80	4.68	10.76	4.84	10.71	5.01	10.71	5.10	10.71	5.18	10.66	5.35
	-11.8	-13	11.25	4.81	11.25	4.97	11.20	5.13	11.20	5.21	11.20	5.29	11.15	5.45
	-9.8	-11	11.78	4.94	11.73	5.10	11.73	5.25	11.73	5.33	11.68	5.40	11.68	5.55
	-9.5	-10	12.08	5.01	12.03	5.16	12.03	5.31	11.98	5.39	11.98	5.46	11.93	5.61
	-8.5	-9.1	12.32	5.07	12.27	5.22	12.27	5.36	12.27	5.44	12.22	5.51	12.22	5.65
	-7	-7.6	12.76	5.17	12.76	5.31	12.71	5.45	12.71	5.52	12.71	5.59	12.66	5.74
	-5	-5.6	13.44	5.30	13.39	5.43	13.39	5.57	13.35	5.63	13.35	5.70	13.30	5.83
	-3	-3.7	14.08	5.42	14.08	4.92	14.03	5.67	14.03	5.74	14.03	5.80	13.44	5.55
	0	-0.7	15.20	5.59	15.20	5.71	15.16	5.83	14.91	5.74	14.42	5.50	13.44	5.04
	3	2.2	16.43	5.75	16.38	5.86	15.40	5.42	14.91	5.21	14.42	5.01	13.44	4.59
	5	4.1	17.26	5.86	16.38	5.50	15.40	5.10	14.91	4.91	14.42	4.71	13.44	4.33
	7	6	17.36	5.56	16.38	5.17	15.40	4.80	14.91	4.62	14.42	4.44	13.44	4.08
	9	7.9	17.36	5.22	16.38	4.87	15.40	4.52	14.91	4.30	14.42	4.18	13.44	3.85
	11	9.8	17.36	4.92	16.38	4.59	15.40	4.26	14.91	4.10	14.42	3.95	13.44	3.64
	13	11.8	17.36	4.62	16.38	4.31	15.40	4.01	14.91	3.86	14.42	3.72	13.44	3.43
	15	13.7	17.36	4.36	16.38	4.07	15.40	3.79	14.91	3.65	14.42	3.52	13.44	3.25
90%	-19.8	-20	9.76	4.69	9.71	4.85	9.71	5.02	9.66	5.10	9.66	5.19	9.66	5.35
	-18.8	-19	9.91	4.74	9.91	4.91	9.86	5.07	9.86	5.15	9.86	5.23	9.81	5.39
	-16.7	-17	10.30	4.86	10.25	5.01	10.25	5.17	10.25	5.25	10.20	5.32	10.20	5.48
	-13.7	-15	10.74	4.97	10.69	5.12	10.69	5.27	10.64	5.35	10.64	5.42	10.64	5.57
	-11.8	-13	11.18	5.09	11.18	5.24	11.13	5.38	11.13	5.45	11.13	5.52	11.08	5.67
	-9.8	-11	11.71	5.21	11.71	5.35	11.66	5.49	11.66	5.55	11.66	5.63	11.61	5.77
	-9.5	-10	12.01	5.27	11.96	5.41	11.96	5.54	11.91	5.61	11.91	5.68	11.91	5.81
	-8.5	-9.1	12.25	5.33	12.25	5.46	12.20	5.59	12.20	5.65	12.20	5.72	12.05	5.78
	-7	-7.6	12.69	5.42	12.69	5.54	12.64	5.67	12.64	5.73	12.64	5.80	12.05	5.52
	-5	-5.6	13.37	5.54	13.32	5.65	13.32	5.77	13.27	5.83	12.93	5.65	12.05	5.19
	-3	-3.7	14.01	5.64	14.01	5.75	13.86	5.78	13.37	5.55	12.93	5.32	12.05	4.89
	0	-0.7	15.18	5.80	14.74	5.66	13.86	5.24	13.37	5.04	12.93	4.84	12.05	4.44
	3	2.2	15.62	5.53	14.74	5.15	13.86	4.78	13.37	4.59	12.93	4.41	12.05	4.06
	5	4.1	15.62	5.20	14.74	4.84	13.86	4.50	13.37	4.33	12.93	4.16	12.05	3.83
	7	6	15.62	4.89	14.74	4.56	13.86	4.24	13.37	4.08	12.93	3.93	12.05	3.62
9	7.9	15.62	4.61	14.74	4.29	13.86	4.00	13.37	3.85	12.93	3.71	12.05	3.42	
11	9.8	15.62	4.34	14.74	4.05	13.86	3.78	13.37	3.64	12.93	3.50	12.05	3.24	
13	11.8	15.62	4.08	14.74	3.82	13.86	3.56	13.37	3.43	12.93	3.31	12.05	3.06	
15	13.7	15.62	3.86	14.74	3.61	13.86	3.37	13.37	3.25	12.93	3.14	12.05	2.90	
80%	-19.8	-20	9.73	5.01	9.68	5.16	9.68	5.30	9.68	5.38	9.63	5.45	9.63	5.60
	-18.8	-19	9.88	5.06	9.88	5.20	9.83	5.35	9.83	5.42	9.83	5.49	9.78	5.64
	-16.7	-17	10.27	5.16	10.22	5.30	10.22	5.44	10.22	5.51	10.22	5.58	10.17	5.72
	-13.7	-15	10.71	5.27	10.66	5.40	10.66	5.54	10.66	5.60	10.61	5.67	10.61	5.80
	-11.8	-13	11.15	5.37	11.15	5.50	11.10	5.63	11.10	5.69	11.10	5.76	10.76	5.60
	-9.8	-11	11.68	5.48	11.68	5.60	11.64	5.73	11.64	5.78	11.54	5.77	10.76	5.29
	-9.5	-10	11.98	5.54	11.93	5.65	11.93	5.77	11.93	5.83	11.54	5.60	10.76	5.14
	-8.5	-9.1	12.22	5.59	11.36	5.70	12.17	5.82	11.93	5.69	11.54	5.45	10.76	5.00
	-7	-7.6	12.66	5.67	12.66	5.78	12.32	5.65	11.93	5.43	11.54	5.21	10.76	4.78
	-5	-5.6	13.35	5.77	13.10	5.73	12.32	5.31	11.93	5.11	11.54	4.90	10.76	4.50
	-3	-3.7	13.88	5.80	13.10	5.40	12.32	5.00	11.93	4.81	11.54	4.62	10.76	4.25
	0	-0.7	13.88	5.26	13.10	4.90	12.32	4.55	11.93	4.38	11.54	4.21	10.76	3.88
	3	2.2	13.88	4.79	13.10	4.47	12.32	4.16	11.93	4.00	11.54	3.85	10.76	3.55
	5	4.1	13.88	4.51	13.10	4.21	12.32	3.92	11.93	3.78	11.54	3.64	10.76	3.36
	7	6	13.88	4.25	13.10	3.98	12.32	3.70	11.93	3.57	11.54	3.44	10.76	3.18
9	7.9	13.88	4.01	13.10	3.75	12.32	3.50	11.93	3.37	11.54	3.25	10.76	3.01	
11	9.8	13.88	3.79	13.10	3.55	12.32	3.31	11.93	3.19	11.54	3.08	10.76	2.85	
13	11.8	13.88	3.57	13.10	3.35	12.32	3.13	11.93	3.02	11.54	2.91	10.76	2.70	
15	13.7	13.88	3.38	13.10	3.17	12.32	2.97	11.93	2.86	11.54	2.76	10.76	2.57	
70%	-19.8	-20	9.66	5.34	9.61	5.46	9.61	5.59	9.61	5.65	9.61	5.72	9.37	5.66
	-18.8	-19	9.80	5.38	9.80	5.50	9.76	5.63	9.76	5.69	9.76	5.76	9.37	5.54
	-16.7	-17	10.19	5.47	10.19	5.59	10.15	5.71	10.15	5.77	10.05	5.14	9.37	5.29
	-13.7	-15	10.63	5.56	10.58	5.68	10.58	5.80	10.39	5.71	10.05	5.48	9.37	5.02
	-11.8	-13	11.07	5.65	11.07	5.77	10.78	5.63	10.39	5.41	10.05	5.19	9.37	4.76
	-9.8	-11	11.61	5.75	11.46	5.74	10.78	5.32	10.39	5.11	10.05	4.91	9.37	4.51
	-9.5	-10	11.90	5.80	11.46	5.57	10.78	5.16	10.39	4.96	10.05	4.77	9.37	4.38
	-8.5	-9.1	12.15	5.83	11.46	5.42	10.78	5.02	10.39	4.83	10.05	4.64	9.37	4.27
	-7	-7.6	12.15	5.57	11.46	5.18	10.78	4.81	10.39	4.63	10.05	4.44	9.37	4.09
	-5	-5.6	12.15	5.23	11.46	4.87	10.78	4.53	10.39	4.35	10.05	5.14	9.37	3.86
-3	-3.7	12.15	4.92	11.46	4.59	10.78	4.27	10.39	4.11	10.05	3.95	9.37	3.65	

	0	-0.7	12.15	4.48	11.46	4.19	10.78	3.90	10.39	3.75	10.05	3.62	9.37	3.34
	3	2.2	12.15	4.10	11.46	3.83	10.78	3.57	10.39	3.44	10.05	3.32	9.37	3.07
	5	4.1	12.15	3.86	11.46	3.62	10.78	3.38	10.39	3.25	10.05	3.14	9.37	2.90
	7	6	12.15	3.65	11.46	3.42	10.78	3.19	10.39	3.08	10.05	2.97	9.37	2.76
	9	7.9	12.15	3.45	11.46	3.24	10.78	3.02	10.39	2.92	10.05	2.82	9.37	2.61
	11	9.8	12.15	3.27	11.46	3.06	10.78	2.87	10.39	2.77	10.05	2.67	9.37	2.48
	13	11.8	12.15	3.09	11.46	2.90	10.78	2.71	10.39	2.62	10.05	2.53	9.37	2.36
	15	13.7	12.15	2.92	11.46	2.75	10.78	2.57	10.39	2.49	10.05	2.41	9.37	2.24
60%	-19.8	-20	9.63	5.66	9.58	5.77	9.24	5.55	8.95	5.33	8.65	5.12	8.07	4.69
	-18.8	-19	9.78	5.70	9.78	5.80	9.24	5.43	8.95	5.22	8.65	5.01	8.07	4.59
	-16.7	-17	10.17	5.77	9.83	5.59	9.24	5.18	8.95	4.98	8.65	4.78	8.07	4.39
	-13.7	-15	10.41	5.71	9.83	5.31	9.24	4.92	8.95	4.74	8.65	4.55	8.07	4.18
	-11.8	-13	10.41	5.40	9.83	5.03	9.24	4.67	8.95	4.49	8.65	4.32	8.07	4.00
	-9.8	-11	10.41	5.11	9.83	4.76	9.24	4.42	8.95	4.25	8.65	4.09	8.07	3.77
	-9.5	-10	10.41	4.96	9.83	4.63	9.24	4.29	8.95	4.14	8.65	3.98	8.07	3.67
	-8.5	-9.1	10.41	4.83	9.83	4.51	9.24	4.19	8.95	4.03	8.65	3.88	8.07	3.58
	-7	-7.6	10.41	4.62	9.83	4.31	9.24	4.01	8.95	3.86	8.65	3.72	8.07	3.43
	-5	-5.6	10.41	4.35	9.83	4.06	9.24	3.78	8.95	3.65	8.65	3.51	8.07	3.25
	-3	-3.7	10.41	4.11	9.83	3.84	9.24	3.58	8.95	3.45	8.65	3.32	8.07	3.07
	0	-0.7	10.41	3.75	9.83	3.52	9.24	3.28	8.95	3.17	8.65	3.05	8.07	2.82
	3	2.2	10.41	3.44	9.83	3.23	9.24	3.02	8.95	2.91	8.65	2.81	8.07	2.61
	5	4.1	10.41	3.25	9.83	3.05	9.24	2.85	8.95	2.76	8.65	2.66	8.07	2.47
	7	6	10.41	3.08	9.83	2.89	9.24	2.71	8.95	2.62	8.65	2.53	8.07	2.35
	9	7.9	10.41	2.92	9.83	2.74	9.24	2.57	8.95	2.49	8.65	2.40	8.07	2.24
	11	9.8	10.41	2.77	9.83	2.61	9.24	2.44	8.95	2.36	8.65	2.28	8.07	2.13
	13	11.8	10.41	2.62	9.83	2.47	9.24	2.32	8.95	2.24	8.65	2.17	8.07	2.03
	15	13.7	10.41	2.49	9.83	2.34	9.24	2.21	8.95	2.14	8.65	2.07	8.07	1.93
	50%	-19.8	-20	8.67	5.15	8.19	4.79	7.70	4.45	7.41	4.29	7.16	4.12	6.68
-18.8		-19	8.67	5.04	8.19	4.69	7.70	4.36	7.41	4.20	7.16	4.03	6.68	3.72
-16.7		-17	8.67	4.81	8.19	4.48	7.70	4.17	7.41	4.01	7.16	3.86	6.68	3.57
-13.7		-15	8.67	4.58	8.19	4.27	7.70	3.97	7.41	3.83	7.16	3.68	6.68	3.40
-11.8		-13	8.67	4.34	8.19	4.06	7.70	3.78	7.41	3.64	7.16	3.50	6.68	3.24
-9.8		-11	8.67	4.11	8.19	3.85	7.70	3.58	7.41	3.45	7.16	3.33	6.68	3.08
-9.5		-10	8.67	4.00	8.19	3.74	7.70	3.49	7.41	3.37	7.16	3.24	6.68	3.00
-8.5		-9.1	8.67	3.90	8.19	3.65	7.70	3.40	7.41	3.28	7.16	3.17	6.68	2.93
-7		-7.6	8.67	3.74	8.19	3.50	7.70	3.27	7.41	3.15	7.16	3.04	6.68	2.82
-5		-5.6	8.67	3.53	8.19	3.31	7.70	3.09	7.41	2.99	7.16	2.88	6.68	2.67
-3		-3.7	8.67	3.34	8.19	3.14	7.70	2.93	7.41	2.83	7.16	2.73	6.68	2.54
0		-0.7	8.67	3.07	8.19	2.88	7.70	2.70	7.41	2.61	7.16	2.52	6.68	2.34
3		2.2	8.67	2.82	8.19	2.66	7.70	2.49	7.41	2.41	7.16	2.32	6.68	2.17
5		4.1	8.67	2.68	8.19	2.52	7.70	2.36	7.41	2.29	7.16	2.21	6.68	2.06
7		6	8.67	2.54	8.19	2.39	7.70	2.25	7.41	2.18	7.16	2.11	6.68	1.97
9		7.9	8.67	2.41	8.19	2.28	7.70	2.14	7.41	2.08	7.16	2.01	6.68	1.88
11	9.8	8.67	2.29	8.19	2.16	7.70	2.04	7.41	1.98	7.16	1.91	6.68	1.79	
13	11.8	8.67	2.18	8.19	2.06	7.70	1.94	7.41	1.88	7.16	1.82	6.68	1.71	
15	13.7	8.67	2.08	8.19	1.96	7.70	1.85	7.41	1.80	7.16	1.74	6.68	1.63	

Note:

- 1, is shown as reference
- 2, In heating mode, avoid the outdoor air temperature range from -15 to -20 degree C, when selecting the models
- 3, The above table shows the average value of conditions may operate
- 4, It is recommended to connect less than 130%

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Cooling

Combinati on (%) (Capacity index)	Outdoor Air temperature(°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
130%	10	13.6	3.00	16.2	3.66	18.8	4.35	19.54	4.45	19.76	4.36	20.26	4.18	20.7	3.99
	12	13.6	3.05	16.2	3.73	18.8	4.44	19.26	4.42	19.54	4.34	19.98	4.14	20.4	4.08
	14	13.6	3.11	16.2	3.80	18.7	4.49	19.04	4.44	19.26	4.31	19.76	4.27	20.2	4.32
	16	13.6	3.16	16.2	3.88	18.5	4.48	18.77	4.41	18.99	4.46	19.49	4.50	19.9	4.55
	18	13.6	3.22	16.2	3.96	18.2	4.64	18.49	4.67	18.77	4.70	19.26	4.74	19.7	4.78
	20	13.6	3.29	16.2	4.21	17.9	4.87	18.27	4.90	18.49	4.92	18.99	4.97	19.4	5.02
	21	13.6	3.38	16.2	4.36	17.8	4.99	18.16	5.01	18.38	5.04	18.88	5.09	19.3	5.13
	23	13.6	3.63	16.2	4.68	17.6	5.21	17.88	5.24	18.10	5.27	18.60	5.32	19.1	5.37
	25	13.6	3.87	16.2	5.01	17.3	5.44	17.60	5.47	17.88	5.50	18.38	5.55	18.8	5.61
	27	13.6	4.14	16.2	5.36	17.1	5.67	17.38	5.70	17.60	5.73	18.10	5.79	18.6	5.85
	29	13.6	4.42	16.2	5.73	16.8	5.90	17.10	5.93	17.38	5.97	17.88	6.03	18.3	6.09
	31	13.6	4.71	16.1	6.06	16.6	6.13	16.88	6.17	17.10	6.19	17.60	6.26	18.1	6.33
	33	13.6	5.02	15.8	6.29	16.3	6.36	16.61	6.40	16.88	6.43	17.38	6.50	17.8	6.57
	35	13.6	5.35	15.6	6.52	16.1	6.60	16.39	6.63	16.61	6.67	17.10	6.75	17.6	6.82
	37	13.6	5.69	15.3	6.75	15.8	6.83	16.11	6.87	16.39	6.91	16.83	6.99	17.3	7.07
	39	13.6	6.06	15.1	6.82	15.6	7.06	15.89	7.10	16.11	7.15	16.61	7.23	17.1	7.32
42	13.6	6.38	14.9	6.89	15.4	7.13	15.72	7.17	15.94	7.21	16.44	7.24	16.4	7.38	
44	13.6	6.70	14.8	6.96	15.2	7.17	15.56	7.24	15.62	7.23	15.84	7.27	16.0	7.41	
46	13.6	7.03	14.7	7.02	15.1	7.26	15.40	7.26	15.49	7.28	15.57	7.30	15.8	7.66	
120%	10	12.5	2.73	14.9	3.34	17.3	3.97	18.60	4.29	19.49	4.48	19.93	4.30	20.3	4.14
	12	12.5	2.79	14.9	3.40	17.3	4.05	18.60	4.37	19.21	4.45	19.65	4.28	20.0	4.11
	14	12.5	2.84	14.9	3.47	17.3	4.13	18.60	4.46	18.93	4.42	19.43	4.26	19.8	4.28
	16	12.5	2.89	14.9	3.54	17.3	4.20	18.49	4.49	18.71	4.43	19.15	4.48	19.6	4.51
	18	12.5	2.94	14.9	3.61	17.3	4.35	18.21	4.64	18.43	4.66	18.88	4.70	19.3	4.75
	20	12.5	3.00	14.9	3.75	17.3	4.68	17.99	4.87	18.21	4.89	18.66	4.93	19.1	4.98
	21	12.5	3.03	14.9	3.88	17.3	4.84	17.82	4.98	18.05	5.00	18.54	5.05	18.9	5.10
	23	12.5	3.24	14.9	4.16	17.3	5.19	17.60	5.20	17.82	5.23	18.27	5.28	18.7	5.33
	25	12.5	3.46	14.9	4.45	17.1	5.41	17.33	5.43	17.55	5.46	18.05	5.51	18.4	5.56
	27	12.5	3.70	14.9	4.76	16.8	5.63	17.10	5.67	17.33	5.69	17.77	5.75	18.2	5.80
	29	12.5	3.94	14.9	5.08	16.6	5.86	16.83	5.90	17.05	5.92	17.49	5.98	17.9	6.04
	31	12.5	4.20	14.9	5.42	16.3	6.10	16.61	6.12	16.83	6.16	17.27	6.22	17.7	6.28
	33	12.5	4.48	14.9	5.78	16.1	6.32	16.33	6.36	16.55	6.39	16.99	6.46	17.4	6.52
	35	12.5	4.77	14.9	6.17	15.8	6.55	16.05	6.59	16.33	6.62	16.77	6.69	17.2	6.76
	37	12.5	5.07	14.9	6.57	15.6	6.79	15.83	6.82	16.05	6.86	16.50	6.93	16.9	7.01
	39	12.5	5.40	14.8	6.94	15.3	7.02	15.56	7.06	15.78	7.10	16.27	7.17	16.7	7.24
42	12.5	5.59	14.7	7.00	15.1	7.08	15.40	7.13	15.62	7.16	16.11	7.20	16.0	7.32	
44	12.5	5.66	14.6	7.07	15.0	7.14	15.23	7.15	15.46	7.18	15.63	7.23	15.8	7.57	
46	12.5	5.73	14.5	7.14	14.8	7.21	15.07	7.26	15.34	7.27	15.47	7.25	15.7	7.64	
110%	10	11.5	2.48	13.7	3.02	15.9	3.59	17.05	3.88	18.16	4.18	19.54	4.43	19.9	4.28
	12	11.5	2.53	13.7	3.08	15.9	3.66	17.05	3.96	18.16	4.26	19.32	4.42	19.7	4.26
	14	11.5	2.58	13.7	3.14	15.9	3.73	17.05	4.03	18.16	4.34	19.04	4.39	19.4	4.25
	16	11.5	2.62	13.7	3.20	15.9	3.80	17.05	4.11	18.16	4.42	18.82	4.44	19.2	4.49
	18	11.5	2.67	13.7	3.26	15.9	3.88	17.05	4.22	18.16	4.63	18.54	4.67	18.9	4.71
	20	11.5	2.72	13.7	3.33	15.9	4.11	17.05	4.54	17.88	4.86	18.32	4.90	18.7	4.94
	21	11.5	2.75	13.7	3.43	15.9	4.26	17.05	4.70	17.77	4.98	18.16	5.01	18.6	5.05
	23	11.5	2.88	13.7	3.67	15.9	4.56	17.05	5.05	17.49	5.19	17.94	5.25	18.3	5.29
	25	11.5	3.08	13.7	3.92	15.9	4.88	17.05	5.41	17.27	5.42	17.66	5.48	18.1	5.52
	27	11.5	3.28	13.7	4.20	15.9	5.22	16.77	5.63	17.00	5.65	17.44	5.70	17.8	5.76
	29	11.5	3.50	13.7	4.48	15.9	5.58	16.55	5.86	16.77	5.89	17.16	5.94	17.6	5.99
	31	11.5	3.72	13.7	4.77	15.9	5.96	16.28	6.09	16.50	6.11	16.94	6.17	17.3	6.23
	33	11.5	3.96	13.7	5.09	15.8	6.28	16.05	6.32	16.28	6.34	16.66	6.40	17.1	6.47
	35	11.5	4.21	13.7	5.42	15.5	6.51	15.78	6.54	16.00	6.58	16.39	6.64	16.8	6.70
	37	11.5	4.49	13.7	5.77	15.3	6.75	15.56	6.77	15.72	6.81	16.17	6.88	16.5	6.94
	39	11.5	4.77	13.7	6.15	15.0	6.97	15.28	7.01	15.50	7.04	15.89	7.11	16.3	7.18
42	11.5	4.83	13.7	6.22	14.9	7.04	15.12	7.07	15.34	7.11	15.62	7.18	15.6	7.25	
44	11.5	4.90	13.7	6.28	14.7	7.10	14.96	7.14	15.19	7.17	15.47	7.20	15.5	7.51	
46	11.5	5.02	13.7	6.35	14.6	7.17	14.81	7.25	15.07	7.24	15.30	7.57	15.3	7.59	
100%	10	10.4	2.24	12.4	2.72	14.5	3.21	15.50	3.48	16.50	3.74	18.54	4.28	19.6	4.42
	12	10.4	2.28	12.4	2.77	14.5	3.28	15.50	3.54	16.50	3.81	18.54	4.35	19.3	4.40

	14	10.4	2.32	12.4	2.82	14.5	3.34	15.50	3.61	16.50	3.88	18.54	4.44	19.1	4.37	
	16	10.4	2.37	12.4	2.87	14.5	3.41	15.50	3.68	16.50	3.96	18.43	4.49	18.8	4.45	
	18	10.4	2.41	12.4	2.93	14.5	3.47	15.50	3.75	16.50	4.04	18.21	4.64	18.6	4.68	
	20	10.4	2.45	12.4	2.99	14.5	3.57	15.50	3.94	16.50	4.33	17.94	4.86	18.3	4.91	
	21	10.4	2.48	12.4	3.01	14.5	3.71	15.50	4.08	16.50	4.48	17.83	4.98	18.2	5.02	
	23	10.4	2.54	12.4	3.21	14.5	3.97	15.50	4.37	16.50	4.80	17.60	5.20	17.9	5.25	
	25	10.4	2.71	12.4	3.43	14.5	4.25	15.50	4.69	16.50	5.14	17.33	5.43	17.7	5.47	
	27	10.4	2.89	12.4	3.66	14.5	4.54	15.50	5.01	16.50	5.50	17.05	5.66	17.4	5.71	
	29	10.4	3.07	12.4	3.91	14.5	4.84	15.50	5.35	16.44	5.84	16.83	5.90	17.2	5.94	
	31	10.4	3.28	12.4	4.17	14.5	5.17	15.50	5.71	16.22	6.07	16.55	6.12	16.9	6.18	
	33	10.4	3.48	12.4	4.44	14.5	5.51	15.50	6.10	15.94	6.30	16.33	6.35	16.7	6.41	
	35	10.4	3.70	12.4	4.72	14.5	5.88	15.50	6.50	15.67	6.53	16.05	6.59	16.4	6.64	
	37	10.4	3.93	12.4	5.03	14.5	6.26	15.22	6.73	15.44	6.76	15.83	6.82	16.1	6.88	
	39	10.4	4.18	12.4	5.34	14.5	6.67	15.00	6.96	15.17	6.99	15.56	7.05	15.9	7.12	
	42	10.4	4.44	12.4	5.60	14.5	6.99	14.69	7.02	15.01	7.13	15.20	7.22	15.6	7.32	
	44	10.4	4.70	12.4	5.86	14.5	7.09	14.38	7.15	14.87	7.20	15.56	7.31	15.2	7.38	
	46	10.4	4.96	12.4	6.12	14.5	7.23	14.07	7.22	14.86	7.39	14.94	7.44	15.0	7.51	
	90%	10	9.41	2.01	11.2	2.42	13.0	2.86	13.95	3.08	14.84	3.31	16.66	3.78	18.4	4.27
		12	9.41	2.04	11.2	2.46	13.0	2.91	13.95	3.14	14.84	3.37	16.66	3.85	18.4	4.34
		14	9.41	2.08	11.2	2.51	13.0	2.96	13.95	3.20	14.84	3.43	16.66	3.92	18.4	4.42
16		9.41	2.11	11.2	2.55	13.0	3.02	13.95	3.26	14.84	3.50	16.66	4.00	18.4	4.50	
18		9.41	2.15	11.2	2.60	13.0	3.07	13.95	3.32	14.84	3.57	16.66	4.08	18.2	4.64	
20		9.41	2.19	11.2	2.66	13.0	3.14	13.95	3.39	14.84	3.71	16.66	4.39	17.9	4.86	
21		9.41	2.21	11.2	2.68	13.0	3.19	13.95	3.50	14.84	3.84	16.66	4.55	17.8	4.98	
23		9.41	2.25	11.2	2.79	13.0	3.42	13.95	3.76	14.84	4.12	16.66	4.88	17.5	5.20	
25		9.41	2.37	11.2	2.98	13.0	3.65	13.95	4.02	14.84	4.40	16.66	5.22	17.3	5.43	
27		9.41	2.52	11.2	3.17	13.0	3.90	13.95	4.29	14.84	4.70	16.66	5.59	17.0	5.66	
29		9.41	2.69	11.2	3.38	13.0	4.16	13.95	4.58	14.84	5.03	16.50	5.84	16.8	5.89	
31		9.41	2.86	11.2	3.60	13.0	4.43	13.95	4.89	14.84	5.36	16.22	6.07	16.5	6.12	
33		9.41	3.03	11.2	3.83	13.0	4.73	13.95	5.21	14.84	5.72	16.00	6.31	16.3	6.35	
35		9.41	3.22	11.2	4.07	13.0	5.04	13.95	5.55	14.84	6.10	15.72	6.53	16.0	6.59	
37		9.41	3.42	11.2	4.33	13.0	5.36	13.95	5.91	14.84	6.50	15.44	6.76	15.8	6.81	
39		9.41	3.63	11.2	4.61	13.0	5.70	13.95	6.30	14.84	6.92	15.22	7.00	15.5	7.05	
42	9.41	3.79	11.2	4.89	13.0	5.98	13.95	6.52	14.84	6.98	15.08	7.24	15.4	7.27		
44	9.41	4.07	11.2	5.16	13.0	6.26	13.95	6.74	14.84	7.25	15.00	7.30	15.2	7.39		
46	9.41	4.29	11.2	5.39	13.0	6.48	13.95	6.96	14.84	7.37	14.91	7.39	14.9	7.47		
80%	10	8.36	1.78	9.96	2.13	11.5	2.51	12.40	2.70	13.23	2.89	14.84	3.30	16.4	3.72	
	12	8.36	1.80	9.96	2.16	11.5	2.55	12.40	2.75	13.23	2.95	14.84	3.36	16.4	3.79	
	14	8.36	1.84	9.96	2.21	11.5	2.59	12.40	2.79	13.23	3.00	14.84	3.43	16.4	3.86	
	16	8.36	1.87	9.96	2.24	11.5	2.65	12.40	2.85	13.23	3.06	14.84	3.50	16.4	3.93	
	18	8.36	1.90	9.96	2.29	11.5	2.70	12.40	2.91	13.23	3.12	14.84	3.57	16.4	4.01	
	20	8.36	1.94	9.96	2.33	11.5	2.75	12.40	2.96	13.23	3.18	14.84	3.70	16.4	4.29	
	21	8.36	1.95	9.96	2.35	11.5	2.78	12.40	3.00	13.23	3.25	14.84	3.83	16.4	4.45	
	23	8.36	1.99	9.96	2.40	11.5	2.91	12.40	3.19	13.23	3.48	14.84	4.10	16.4	4.77	
	25	8.36	2.05	9.96	2.55	11.5	3.11	12.40	3.41	13.23	3.71	14.84	4.39	16.4	5.11	
	27	8.36	2.18	9.96	2.72	11.5	3.31	12.40	3.64	13.23	3.97	14.84	4.69	16.4	5.47	
	29	8.36	2.32	9.96	2.89	11.5	3.53	12.40	3.87	13.23	4.24	14.84	5.00	16.4	5.84	
	31	8.36	2.46	9.96	3.07	11.5	3.76	12.40	4.13	13.23	4.52	14.84	5.34	16.1	6.07	
	33	8.36	2.62	9.96	3.27	11.5	4.00	12.40	4.40	13.23	4.81	14.84	5.69	15.9	6.30	
	35	8.36	2.78	9.96	3.48	11.5	4.26	12.40	4.68	13.23	5.12	14.84	6.07	15.6	6.53	
	37	8.36	2.94	9.96	3.69	11.5	4.53	12.40	4.98	13.23	5.46	14.84	6.47	15.4	6.75	
	39	8.36	3.12	9.96	3.93	11.5	4.82	12.40	5.30	13.23	5.81	14.84	6.89	15.1	6.99	
42	8.36	3.21	9.96	3.98	11.5	4.91	12.40	5.49	13.23	5.95	14.84	7.13	15.0	7.15		
44	8.36	3.35	9.96	4.03	11.5	5.01	12.40	5.58	13.23	6.04	14.84	7.18	14.9	7.22		
46	8.36	3.40	9.96	4.07	11.5	5.10	12.40	5.72	13.23	6.16	14.84	7.29	14.8	7.39		
70%	10	7.31	1.57	8.75	1.86	10.1	2.16	10.85	2.33	11.57	2.50	12.95	2.84	14.3	3.19	
	12	7.31	1.59	8.75	1.88	10.1	2.21	10.85	2.37	11.57	2.54	12.95	2.89	14.3	3.25	
	14	7.31	1.61	8.75	1.92	10.1	2.24	10.85	2.41	11.57	2.58	12.95	2.94	14.3	3.31	
	16	7.31	1.64	8.75	1.95	10.1	2.29	10.85	2.46	11.57	2.64	12.95	3.00	14.3	3.37	
	18	7.31	1.66	8.75	1.99	10.1	2.33	10.85	2.51	11.57	2.68	12.95	3.06	14.3	3.44	
	20	7.31	1.69	8.75	2.02	10.1	2.37	10.85	2.55	11.57	2.73	12.95	3.12	14.3	3.54	
	21	7.31	1.71	8.75	2.04	10.1	2.39	10.85	2.58	11.57	2.76	12.95	3.16	14.3	3.66	
	23	7.31	1.73	8.75	2.08	10.1	2.44	10.85	2.66	11.57	2.90	12.95	3.39	14.3	3.92	
	25	7.31	1.77	8.75	2.16	10.1	2.60	10.85	2.85	11.57	3.09	12.95	3.63	14.3	4.20	
27	7.31	1.87	8.75	2.30	10.1	2.78	10.85	3.03	11.57	3.30	12.95	3.87	14.3	4.49		

	29	7.31	1.99	8.75	2.44	10.1	2.95	10.85	3.23	11.57	3.51	12.95	4.13	14.3	4.79
	31	7.31	2.10	8.75	2.59	10.1	3.15	10.85	3.43	11.57	3.74	12.95	4.40	14.3	5.11
	33	7.31	2.23	8.75	2.76	10.1	3.35	10.85	3.65	11.57	3.99	12.95	4.69	14.3	5.45
	35	7.31	2.37	8.75	2.93	10.1	3.55	10.85	3.89	11.57	4.24	12.95	4.99	14.3	5.81
	37	7.31	2.50	8.75	3.10	10.1	3.78	10.85	4.13	11.57	4.51	12.95	5.32	14.3	6.18
	39	7.31	2.65	8.75	3.29	10.1	4.00	10.85	4.39	11.57	4.79	12.95	5.65	14.3	6.59
	42	7.31	2.80	8.75	3.44	10.1	4.16	10.85	4.58	11.57	4.99	12.95	5.96	14.3	6.98
	44	7.31	2.99	8.75	3.64	10.1	4.29	10.85	4.78	11.57	5.18	12.95	6.23	14.3	7.21
	46	7.31	3.12	8.75	3.79	10.1	4.47	10.85	4.93	11.57	5.34	12.95	6.43	14.3	7.37
60%	10	6.26	1.36	7.47	1.59	8.69	1.85	9.30	1.98	9.91	2.11	11.13	2.39	12.3	2.68
	12	6.26	1.38	7.47	1.62	8.69	1.88	9.30	2.01	9.91	2.15	11.13	2.44	12.3	2.72
	14	6.26	1.40	7.47	1.65	8.69	1.91	9.30	2.05	9.91	2.19	11.13	2.48	12.3	2.78
	16	6.26	1.42	7.47	1.67	8.69	1.94	9.30	2.08	9.91	2.22	11.13	2.52	12.3	2.83
	18	6.26	1.45	7.47	1.70	8.69	1.98	9.30	2.12	9.91	2.27	11.13	2.57	12.3	2.88
	20	6.26	1.46	7.47	1.73	8.69	2.01	9.30	2.16	9.91	2.31	11.13	2.62	12.3	2.94
	21	6.26	1.48	7.47	1.74	8.69	2.03	9.30	2.18	9.91	2.33	11.13	2.65	12.3	2.97
	23	6.26	1.50	7.47	1.78	8.69	2.07	9.30	2.22	9.91	2.37	11.13	2.75	12.3	3.16
	25	6.26	1.52	7.47	1.80	8.69	2.15	9.30	2.33	9.91	2.52	11.13	2.93	12.3	3.37
	27	6.26	1.59	7.47	1.92	8.69	2.29	9.30	2.49	9.91	2.69	11.13	3.13	12.3	3.60
	29	6.26	1.67	7.47	2.03	8.69	2.44	9.30	2.65	9.91	2.86	11.13	3.34	12.3	3.85
	31	6.26	1.78	7.47	2.15	8.69	2.58	9.30	2.81	9.91	3.05	11.13	3.55	12.3	4.09
	33	6.26	1.87	7.47	2.29	8.69	2.74	9.30	2.99	9.91	3.24	11.13	3.78	12.3	4.36
	35	6.26	1.99	7.47	2.43	8.69	2.91	9.30	3.17	9.91	3.44	11.13	4.02	12.3	4.64
	37	6.26	2.10	7.47	2.57	8.69	3.08	9.30	3.36	9.91	3.65	11.13	4.27	12.3	4.94
	39	6.26	2.22	7.47	2.72	8.69	3.27	9.30	3.56	9.91	3.88	11.13	4.54	12.3	5.26
42	6.26	2.31	7.47	2.87	8.69	3.43	9.30	3.76	9.91	4.07	11.13	4.82	12.3	5.57	
44	6.26	2.41	7.47	3.03	8.69	3.58	9.30	3.88	9.91	4.26	11.13	5.08	12.3	5.89	
46	6.26	2.53	7.47	3.17	8.69	3.71	9.30	4.04	9.91	4.48	11.13	5.27	12.3	6.21	
50%	10	5.23	1.17	6.26	1.36	7.25	1.55	7.75	1.66	8.25	1.75	9.24	1.97	10.3	2.20
	12	5.23	1.18	6.26	1.38	7.25	1.58	7.75	1.67	8.25	1.79	9.24	2.01	10.3	2.23
	14	5.23	1.20	6.26	1.39	7.25	1.59	7.75	1.71	8.25	1.81	9.24	2.04	10.3	2.28
	16	5.23	1.22	6.26	1.41	7.25	1.62	7.75	1.73	8.25	1.84	9.24	2.08	10.3	2.31
	18	5.23	1.24	6.26	1.44	7.25	1.65	7.75	1.76	8.25	1.87	9.24	2.11	10.3	2.36
	20	5.23	1.25	6.26	1.45	7.25	1.67	7.75	1.79	8.25	1.91	9.24	2.15	10.3	2.40
	21	5.23	1.26	6.26	1.47	7.25	1.69	7.75	1.80	8.25	1.93	9.24	2.17	10.3	2.43
	23	5.23	1.28	6.26	1.49	7.25	1.72	7.75	1.84	8.25	1.96	9.24	2.21	10.3	2.48
	25	5.23	1.30	6.26	1.52	7.25	1.75	7.75	1.87	8.25	2.02	9.24	2.32	10.3	2.65
	27	5.23	1.32	6.26	1.58	7.25	1.85	7.75	2.00	8.25	2.15	9.24	2.47	10.3	2.82
	29	5.23	1.39	6.26	1.66	7.25	1.96	7.75	2.12	8.25	2.29	9.24	2.63	10.3	3.00
	31	5.23	1.47	6.26	1.76	7.25	2.08	7.75	2.25	8.25	2.43	9.24	2.79	10.3	3.20
	33	5.23	1.56	6.26	1.87	7.25	2.21	7.75	2.38	8.25	2.58	9.24	2.97	10.3	3.40
	35	5.23	1.65	6.26	1.97	7.25	2.33	7.75	2.52	8.25	2.72	9.24	3.15	10.3	3.61
	37	5.23	1.73	6.26	2.08	7.25	2.47	7.75	2.67	8.25	2.89	9.24	3.35	10.3	3.84
	39	5.23	1.83	6.26	2.20	7.25	2.61	7.75	2.83	8.25	3.07	9.24	3.55	10.3	4.07
42	5.23	1.93	6.26	2.32	7.25	2.74	7.75	3.01	8.25	3.24	9.24	3.80	10.3	4.33	
44	5.23	2.03	6.26	2.45	7.25	2.86	7.75	3.18	8.25	3.32	9.24	4.05	10.3	4.58	
46	5.23	2.13	6.26	2.58	7.25	2.99	7.75	3.33	8.25	3.42	9.24	4.30	10.3	4.83	

Note:

- 1, [] is shown as reference
- 2, In cooling mode, avoid the outdoor air temperature range from 42-46 degree C, when selecting the models
- 3, The above table shows the average value of conditions may operate
- 4, It is recommended to connect less than 130%

Heating

Combination (%) (Capacity index)	Outdoor Air temperature (°C DB)		Indoor temperature(°C WB)											
			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	
130%	-19.8	-20	11.01	4.24	10.95	4.54	10.90	4.84	10.90	4.99	10.85	5.14	10.85	5.44
	-18.8	-19	11.17	4.33	11.12	4.63	11.12	4.92	11.06	5.07	11.06	5.21	11.01	5.51
	-16.7	-17	11.60	4.54	11.55	4.82	11.49	5.10	11.49	5.24	11.49	5.38	11.44	5.67
	-13.7	-15	12.09	4.75	12.04	5.02	11.98	5.29	11.98	5.42	11.93	5.56	11.93	5.84
	-11.8	-13	12.58	4.96	12.58	5.22	12.52	5.48	12.47	5.61	12.47	5.74	12.41	6.00
	-9.8	-11	13.17	5.17	13.11	5.42	13.06	5.67	13.06	5.80	13.06	5.92	13.01	6.17
	-9.5	-10	13.49	5.28	13.44	5.52	13.38	5.77	13.38	5.89	13.33	6.01	13.33	6.25
	-8.5	-9.1	13.76	5.38	13.71	5.61	13.71	5.85	13.65	5.97	13.65	6.09	13.60	6.33
	-7	-7.6	14.25	5.53	14.25	5.77	14.19	5.99	14.19	6.11	14.14	6.22	14.08	6.45
	-5	-5.6	15.00	5.74	14.95	5.96	14.89	6.18	14.89	6.29	14.84	6.39	14.84	6.61
	-3	-3.7	15.71	5.93	15.65	6.14	15.65	6.34	15.60	6.45	15.60	6.55	15.54	6.76
	0	-0.7	16.95	6.22	16.95	6.41	16.89	6.60	16.89	6.67	16.84	6.79	16.84	6.98
	3	2.2	18.29	6.48	18.24	6.65	18.19	6.83	18.19	6.92	18.19	7.01	18.13	7.18
	5	4.1	19.21	6.64	19.16	6.81	19.16	6.97	19.11	7.06	19.11	7.15	19.05	7.31
	7	6	20.18	6.80	20.13	6.95	20.13	7.11	20.08	7.19	20.08	7.27	19.27	6.98
9	7.9	21.21	6.93	21.15	7.09	21.15	7.24	21.10	7.32	20.67	7.16	19.27	6.56	
11	9.8	22.29	7.08	22.24	7.22	22.13	7.31	21.37	7.02	20.67	6.73	19.27	6.18	
13	11.8	23.48	7.21	23.42	7.35	22.13	6.85	21.37	6.58	20.67	6.32	19.27	5.80	
15	13.7	24.61	7.33	23.53	6.96	22.13	6.45	21.37	6.20	20.67	5.95	19.27	5.47	
120%	-19.8	-20	10.96	4.64	10.90	4.92	10.85	5.20	10.85	5.33	10.85	5.47	10.79	5.75
	-18.8	-19	11.12	4.73	11.06	5.00	11.06	5.28	11.01	5.41	11.01	5.55	10.96	5.82
	-16.7	-17	11.55	4.92	11.50	5.18	11.42	5.44	11.44	5.57	11.44	5.70	11.39	5.96
	-13.7	-15	12.04	5.11	11.98	5.36	11.93	5.61	11.93	5.74	11.93	5.87	11.87	6.12
	-11.8	-13	12.52	5.31	12.52	5.55	12.47	5.79	12.47	5.91	12.41	6.03	12.41	6.27
	-9.8	-11	13.11	5.51	13.06	5.74	13.06	5.97	13.01	6.09	13.01	6.20	12.95	6.43
	-9.5	-10	13.44	5.61	13.39	5.84	13.33	6.05	13.33	6.17	13.33	6.28	13.28	6.51
	-8.5	-9.1	13.71	5.70	13.65	5.91	13.65	6.13	13.60	6.24	13.60	6.36	13.55	6.58
	-7	-7.6	14.19	5.84	14.19	6.05	14.14	6.26	14.14	6.37	14.09	6.48	14.09	6.69
	-5	-5.6	14.95	6.03	14.90	6.23	14.84	6.44	14.84	6.54	14.84	6.64	14.79	6.83
	-3	-3.7	15.65	6.21	15.65	6.41	15.60	6.59	15.60	6.69	15.54	6.79	15.54	6.97
	0	-0.7	16.89	6.48	16.89	6.65	16.84	6.83	16.84	6.92	16.78	7.00	16.78	7.18
	3	2.2	18.24	6.72	18.19	6.88	18.19	7.04	18.13	7.13	18.13	7.21	17.76	7.17
	5	4.1	19.16	6.86	19.11	7.02	19.11	7.18	19.05	7.25	19.05	7.33	17.76	6.73
	7	6	20.13	7.00	20.13	7.15	20.08	7.30	19.75	7.20	19.11	6.90	17.76	6.34
9	7.9	21.16	7.15	21.10	7.29	20.40	7.04	19.75	6.77	19.11	6.49	17.76	5.96	
11	9.8	22.24	7.27	21.70	7.15	20.40	6.62	19.75	6.37	19.11	6.11	17.76	5.62	
13	11.8	23.04	7.20	21.70	6.70	20.40	6.21	19.75	5.98	19.11	5.74	17.76	5.28	
15	13.7	23.04	6.78	21.70	6.31	20.40	5.86	19.75	5.63	19.11	5.42	17.76	4.99	
110%	-19.8	-20	10.90	5.05	10.85	5.30	10.79	5.56	10.79	5.68	10.80	5.81	10.74	6.06
	-18.8	-19	11.06	5.13	11.01	5.38	11.01	5.63	11.01	5.75	10.96	5.88	10.96	6.12
	-16.7	-17	11.49	5.30	11.44	5.54	11.60	5.78	11.39	5.90	11.39	6.02	11.33	6.26
	-13.7	-15	11.98	5.48	11.93	5.71	11.87	5.94	11.87	6.05	11.87	6.17	11.82	6.40
	-11.8	-13	12.47	5.66	12.47	5.88	12.41	6.10	12.41	6.21	12.36	6.32	12.36	6.55
	-9.8	-11	13.06	5.84	13.01	6.05	13.01	6.27	12.95	6.37	12.95	6.48	12.95	6.69
	-9.5	-10	13.38	5.94	13.33	6.14	13.28	6.35	13.28	6.45	13.28	6.55	13.22	6.76
	-8.5	-9.1	13.65	6.02	13.60	6.22	13.60	6.42	13.55	6.52	13.55	6.62	13.55	6.04
	-7	-7.6	14.14	6.16	14.14	6.34	14.09	6.54	14.09	6.64	14.09	6.73	14.03	6.93
	-5	-5.6	14.90	6.33	14.84	6.51	14.79	6.69	14.79	6.79	14.79	6.88	14.73	7.07
	-3	-3.7	15.60	6.49	15.60	6.66	15.54	6.84	15.54	6.93	15.49	7.01	15.49	7.19
	0	-0.7	16.84	6.73	16.84	6.90	16.79	7.06	16.79	7.14	16.79	7.22	16.30	7.08
	3	2.2	18.19	6.96	18.13	7.11	18.13	7.25	18.08	7.33	17.49	7.03	16.30	6.44
	5	4.1	19.11	7.09	19.11	7.24	18.73	7.17	18.08	6.88	17.49	6.61	16.30	6.06
	7	6	20.08	7.22	19.91	7.27	18.73	6.73	18.08	6.47	17.49	6.21	16.30	5.70
9	7.9	21.10	7.34	19.91	6.83	18.73	6.33	18.08	6.09	17.49	5.84	16.30	5.38	
11	9.8	21.10	6.90	19.91	6.43	18.73	5.96	18.08	5.74	17.49	5.51	16.30	5.07	
13	11.8	21.10	6.48	19.91	6.03	18.73	5.60	18.08	5.39	17.49	5.18	16.30	4.78	
15	13.7	21.10	5.75	19.91	5.69	18.73	5.29	18.08	5.09	17.49	4.90	16.30	4.52	
100%	-19.8	-20	10.85	5.45	10.79	5.68	10.79	5.91	10.74	6.03	10.74	6.14	10.69	6.37
	-18.8	-19	11.01	5.52	11.01	5.75	10.95	5.98	10.95	6.09	10.90	6.21	10.90	6.44
	-16.7	-17	11.44	5.68	11.39	5.90	11.39	6.12	11.33	6.23	11.33	6.33	11.33	6.55

	-13.7	-15	11.93	5.84	11.87	6.05	11.82	6.27	11.82	6.37	11.82	6.48	11.77	6.69
	-11.8	-13	12.41	6.02	12.41	6.21	12.36	6.41	12.36	6.51	12.36	6.62	12.30	6.82
	-9.8	-11	13.01	6.18	12.95	6.37	12.95	6.56	12.95	6.66	12.90	6.76	12.90	6.94
	-9.5	-10	13.33	6.27	13.28	6.45	13.28	6.64	13.22	6.73	13.22	6.83	13.17	7.01
	-8.5	-9.1	13.60	6.33	13.55	6.52	13.55	6.70	13.55	6.80	13.49	6.89	13.49	7.07
	-7	-7.6	14.09	6.46	14.09	6.64	14.03	6.81	14.03	6.90	14.03	6.99	13.98	7.17
	-5	-5.6	14.84	6.62	14.79	6.79	14.79	6.96	14.73	7.04	14.73	7.12	14.68	7.29
	-3	-3.7	15.54	6.77	15.54	6.15	15.49	7.09	15.49	7.17	15.49	7.25	14.84	6.94
	0	-0.7	16.78	6.99	16.78	7.14	16.73	7.29	16.46	7.17	15.92	6.87	14.84	6.30
	3	2.2	18.13	7.19	18.08	7.32	17.00	6.78	16.46	6.51	15.92	6.26	14.84	5.74
	5	4.1	19.05	7.32	18.08	6.88	17.00	6.37	16.46	6.13	15.92	5.89	14.84	5.42
	7	6	19.16	6.95	18.08	6.47	17.00	6.00	16.46	5.77	15.92	5.55	14.84	5.10
	9	7.9	19.16	6.53	18.08	6.09	17.00	5.65	16.46	5.37	15.92	5.23	14.84	4.82
	11	9.8	19.16	6.15	18.08	5.73	17.00	5.33	16.46	5.13	15.92	4.93	14.84	4.55
	13	11.8	19.16	5.77	18.08	5.39	17.00	5.02	16.46	4.83	15.92	4.65	14.84	4.29
	15	13.7	19.16	5.45	18.08	5.09	17.00	4.74	16.46	4.57	15.92	4.40	14.84	4.07
90%	-19.8	-20	10.77	5.86	10.72	6.06	10.72	6.27	10.67	6.37	10.67	6.48	10.67	6.69
	-18.8	-19	10.94	5.92	10.94	6.13	10.88	6.34	10.88	6.44	10.88	6.54	10.83	6.74
	-16.7	-17	11.37	6.07	11.31	6.27	11.31	6.46	11.31	6.56	11.26	6.65	11.26	6.85
	-13.7	-15	11.85	6.22	11.80	6.40	11.80	6.59	11.74	6.69	11.74	6.78	11.74	6.97
	-11.8	-13	12.34	6.37	12.34	6.55	12.28	6.72	12.28	6.82	12.28	6.90	12.23	7.08
	-9.8	-11	12.93	6.51	12.93	6.69	12.87	6.86	12.87	6.94	12.87	7.04	12.82	7.21
	-9.5	-10	13.25	6.59	13.20	6.76	13.20	6.93	13.15	7.01	13.15	7.10	13.15	7.26
	-8.5	-9.1	13.52	6.66	13.52	6.83	13.47	6.99	13.47	7.07	13.47	7.15	13.31	7.22
	-7	-7.6	14.01	6.77	14.01	6.93	13.95	7.09	13.95	7.17	13.95	7.25	13.31	6.90
	-5	-5.6	14.76	6.92	14.71	7.07	14.71	7.22	14.65	7.29	14.28	7.07	13.31	6.48
	-3	-3.7	15.46	7.05	15.46	7.19	15.30	7.22	14.76	6.93	14.28	6.65	13.31	6.11
	0	-0.7	16.76	7.25	16.27	7.08	15.30	6.55	14.76	6.30	14.28	6.05	13.31	5.56
	3	2.2	17.24	6.91	16.27	6.44	15.30	5.97	14.76	5.74	14.28	5.52	13.31	5.08
	5	4.1	17.24	6.50	16.27	6.05	15.30	5.63	14.76	5.41	14.28	5.21	13.31	4.79
	7	6	17.24	6.11	16.27	5.70	15.30	5.30	14.76	5.10	14.28	4.91	13.31	4.53
9	7.9	17.24	5.76	16.27	5.37	15.30	4.99	14.76	4.82	14.28	4.64	13.31	4.28	
11	9.8	17.24	5.42	16.27	5.06	15.30	4.72	14.76	4.55	14.28	4.38	13.31	4.05	
13	11.8	17.24	5.10	16.27	4.78	15.30	4.45	14.76	4.29	14.28	4.14	13.31	3.83	
15	13.7	17.24	4.82	16.27	4.51	15.30	4.22	14.76	4.07	14.28	3.92	13.31	3.63	
80%	-19.8	-20	10.74	6.26	10.69	6.44	10.69	6.63	10.69	6.72	10.63	6.82	10.63	7.00
	-18.8	-19	10.90	6.32	10.90	6.51	10.85	6.69	10.85	6.78	10.85	6.86	10.79	7.05
	-16.7	-17	11.33	6.45	11.28	6.62	11.28	6.80	11.28	6.89	11.28	6.97	11.23	7.15
	-13.7	-15	11.82	6.58	11.77	6.75	11.77	6.92	11.77	7.00	11.71	7.08	11.71	7.25
	-11.8	-13	12.31	6.72	12.31	6.88	12.25	7.04	12.25	7.11	12.25	7.20	11.87	7.01
	-9.8	-11	12.90	6.85	12.90	7.01	12.84	7.16	12.84	7.23	12.74	7.22	11.87	6.62
	-9.5	-10	13.22	6.92	13.17	7.07	13.17	7.22	13.17	7.29	12.74	7.01	11.87	6.42
	-8.5	-9.1	13.49	6.98	12.54	7.13	13.44	7.27	13.17	7.11	12.74	6.82	11.87	6.25
	-7	-7.6	13.98	7.08	13.98	7.22	13.60	7.07	13.17	6.79	12.74	6.51	11.87	5.98
	-5	-5.6	14.73	7.21	14.46	7.17	13.60	6.64	13.17	6.38	12.74	6.12	11.87	5.63
	-3	-3.7	15.33	7.25	14.46	6.75	13.60	6.25	13.17	6.02	12.74	5.77	11.87	5.31
	0	-0.7	15.33	6.58	14.46	6.12	13.60	5.69	13.17	5.48	12.74	5.26	11.87	4.85
	3	2.2	15.33	5.99	14.46	5.59	13.60	5.20	13.17	5.00	12.74	4.82	11.87	4.44
	5	4.1	15.33	5.64	14.46	5.27	13.60	4.90	13.17	4.72	12.74	4.55	11.87	4.20
	7	6	15.33	5.31	14.46	4.97	13.60	4.63	13.17	4.46	12.74	4.30	11.87	3.97
9	7.9	15.33	5.02	14.46	4.69	13.60	4.37	13.17	4.22	12.74	4.07	11.87	3.76	
11	9.8	15.33	4.74	14.46	4.43	13.60	4.14	13.17	3.99	12.74	3.85	11.87	3.57	
13	11.8	15.33	4.46	14.46	4.18	13.60	3.91	13.17	3.77	12.74	3.64	11.87	3.37	
15	13.7	15.33	4.22	14.46	3.97	13.60	3.71	13.17	3.58	12.74	3.45	11.87	3.21	
70%	-19.8	-20	10.66	6.67	10.61	6.83	10.61	6.99	10.61	7.07	10.61	7.15	10.34	7.07
	-18.8	-19	10.82	6.72	10.82	6.88	10.77	7.04	10.77	7.11	10.77	7.20	10.34	6.93
	-16.7	-17	11.25	6.83	11.25	6.99	11.20	7.14	11.20	7.22	11.09	6.43	10.34	6.61
	-13.7	-15	11.74	6.95	11.68	7.10	11.68	7.25	11.47	7.14	11.09	6.85	10.34	6.28
	-11.8	-13	12.22	7.07	12.22	7.21	11.90	7.04	11.47	6.76	11.09	6.49	10.34	5.95
	-9.8	-11	12.82	7.18	12.65	7.18	11.90	6.65	11.47	6.39	11.09	6.13	10.34	5.63
	-9.5	-10	13.14	7.25	12.65	6.97	11.90	6.45	11.47	6.20	11.09	5.96	10.34	5.48
	-8.5	-9.1	13.41	7.29	12.65	6.78	11.90	6.28	11.47	6.04	11.09	5.80	10.34	5.34
	-7	-7.6	13.41	6.96	12.65	6.47	11.90	6.01	11.47	5.78	11.09	5.56	10.34	5.11
-5	-5.6	13.41	6.54	12.65	6.09	11.90	5.66	11.47	5.44	11.09	5.42	10.34	4.82	
-3	-3.7	13.41	6.16	12.65	5.74	11.90	5.34	11.47	5.13	11.09	4.94	10.34	4.56	

	0	-0.7	13.41	5.60	12.65	5.24	11.90	4.87	11.47	4.69	11.09	4.52	10.34	4.18
	3	2.2	13.41	5.12	12.65	4.79	11.90	4.46	11.47	4.30	11.09	4.14	10.34	3.83
	5	4.1	13.41	4.83	12.65	4.52	11.90	4.22	11.47	4.07	11.09	3.92	10.34	3.63
	7	6	13.41	4.57	12.65	4.28	11.90	3.99	11.47	3.85	11.09	3.72	10.34	3.44
	9	7.9	13.41	4.32	12.65	4.04	11.90	3.78	11.47	3.65	11.09	3.52	10.34	3.26
	11	9.8	13.41	4.08	12.65	3.83	11.90	3.58	11.47	3.46	11.09	3.34	10.34	3.10
	13	11.8	13.41	3.86	12.65	3.62	11.90	3.39	11.47	3.28	11.09	3.16	10.34	2.95
	15	13.7	13.41	3.65	12.65	3.44	11.90	3.22	11.47	3.12	11.09	3.01	10.34	2.80
60%	-19.8	-20	10.63	7.07	10.58	7.21	10.20	6.93	9.88	6.66	9.55	6.40	8.90	5.87
	-18.8	-19	10.79	7.12	10.79	7.25	10.20	6.79	9.88	6.52	9.55	6.26	8.90	5.74
	-16.7	-17	11.23	7.21	10.85	6.99	10.20	6.47	9.88	6.23	9.55	5.98	8.90	5.49
	-13.7	-15	11.50	7.14	10.85	6.64	10.20	6.16	9.88	5.92	9.55	5.69	8.90	5.23
	-11.8	-13	11.50	6.76	10.85	6.29	10.20	5.84	9.88	5.62	9.55	5.40	8.90	4.99
	-9.8	-11	11.50	6.38	10.85	5.95	10.20	5.52	9.88	5.31	9.55	5.11	8.90	4.71
	-9.5	-10	11.50	6.20	10.85	5.78	10.20	5.37	9.88	5.17	9.55	4.97	8.90	4.58
	-8.5	-9.1	11.50	6.04	10.85	5.63	10.20	5.24	9.88	5.04	9.55	4.85	8.90	4.47
	-7	-7.6	11.50	5.77	10.85	5.39	10.20	5.01	9.88	4.83	9.55	4.64	8.90	4.29
	-5	-5.6	11.50	5.44	10.85	5.08	10.20	4.73	9.88	4.56	9.55	4.39	8.90	4.06
	-3	-3.7	11.50	5.13	10.85	4.80	10.20	4.47	9.88	4.32	9.55	4.15	8.90	3.84
	0	-0.7	11.50	4.69	10.85	4.39	10.20	4.10	9.88	3.96	9.55	3.81	8.90	3.53
	3	2.2	11.50	4.30	10.85	4.04	10.20	3.77	9.88	3.64	9.55	3.51	8.90	3.26
	5	4.1	11.50	4.07	10.85	3.82	10.20	3.57	9.88	3.45	9.55	3.33	8.90	3.09
	7	6	11.50	3.85	10.85	3.62	10.20	3.38	9.88	3.27	9.55	3.16	8.90	2.94
	9	7.9	11.50	3.65	10.85	3.43	10.20	3.21	9.88	3.11	9.55	3.00	8.90	2.80
11	9.8	11.50	3.46	10.85	3.26	10.20	3.05	9.88	2.95	9.55	2.85	8.90	2.66	
13	11.8	11.50	3.27	10.85	3.09	10.20	2.90	9.88	2.81	9.55	2.71	8.90	2.53	
15	13.7	11.50	3.12	10.85	2.93	10.20	2.76	9.88	2.67	9.55	2.59	8.90	2.42	
50%	-19.8	-20	9.58	6.44	9.04	5.99	8.50	5.56	8.18	5.36	7.91	5.15	7.37	4.75
	-18.8	-19	9.58	6.30	9.04	5.87	8.50	5.45	8.18	5.24	7.91	5.04	7.37	4.65
	-16.7	-17	9.58	6.01	9.04	5.60	8.50	5.21	8.18	5.02	7.91	4.83	7.37	4.46
	-13.7	-15	9.58	5.72	9.04	5.34	8.50	4.96	8.18	4.78	7.91	4.60	7.37	4.25
	-11.8	-13	9.58	5.43	9.04	5.07	8.50	4.72	8.18	4.55	7.91	4.38	7.37	4.05
	-9.8	-11	9.58	5.14	9.04	4.81	8.50	4.48	8.18	4.32	7.91	4.16	7.37	3.85
	-9.5	-10	9.58	5.00	9.04	4.67	8.50	4.36	8.18	4.21	7.91	4.05	7.37	3.75
	-8.5	-9.1	9.58	4.88	9.04	4.57	8.50	4.25	8.18	4.11	7.91	3.96	7.37	3.66
	-7	-7.6	9.58	4.67	9.04	4.38	8.50	4.08	8.18	3.94	7.91	3.80	7.37	3.52
	-5	-5.6	9.58	4.41	9.04	4.14	8.50	3.86	8.18	3.73	7.91	3.60	7.37	3.33
	-3	-3.7	9.58	4.18	9.04	3.92	8.50	3.66	8.18	3.54	7.91	3.41	7.37	3.17
	0	-0.7	9.58	3.83	9.04	3.60	8.50	3.37	8.18	3.26	7.91	3.15	7.37	2.93
	3	2.2	9.58	3.53	9.04	3.32	8.50	3.11	8.18	3.01	7.91	2.91	7.37	2.71
	5	4.1	9.58	3.35	9.04	3.15	8.50	2.95	8.18	2.86	7.91	2.77	7.37	2.58
	7	6	9.58	3.18	9.04	2.99	8.50	2.81	8.18	2.72	7.91	2.63	7.37	2.46
	9	7.9	9.58	3.02	9.04	2.84	8.50	2.67	8.18	2.59	7.91	2.51	7.37	2.35
11	9.8	9.58	2.87	9.04	2.70	8.50	2.55	8.18	2.47	7.91	2.39	7.37	2.24	
13	11.8	9.58	2.73	9.04	2.57	8.50	2.42	8.18	2.35	7.91	2.28	7.37	2.13	
15	13.7	9.58	2.59	9.04	2.45	8.50	2.31	8.18	2.24	7.91	2.17	7.37	2.04	

Note:

- 1, is shown as reference
- 2, In heating mode, avoid the outdoor air temperature range from -15 to -20 degree C, when selecting the models
- 3, The above table shows the average value of conditions may operate
- 4, It is recommended to connect less than 130%

38VR004H109010

Cooling

Combi nation (%) (Capa city index)	Outdoor Air tempera ture(°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI	TC	PI
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
130%	10	10.54	2.07	12.56	2.54	14.57	3.01	15.13	3.08	15.30	3.02	15.69	2.89	16.07	2.76
	12	10.54	2.11	12.56	2.58	14.57	3.07	14.91	3.06	15.13	3.00	15.47	2.87	15.86	2.83
	14	10.54	2.15	12.56	2.63	14.53	3.11	14.74	3.07	14.91	2.98	15.30	2.96	15.69	2.99
	16	10.54	2.19	12.56	2.69	14.36	3.10	14.53	3.05	14.70	3.09	15.09	3.12	15.47	3.15
	18	10.54	2.23	12.56	2.74	14.14	3.21	14.31	3.23	14.53	3.25	14.91	3.28	15.30	3.31
	20	10.54	2.28	12.56	2.92	13.93	3.37	14.14	3.39	14.31	3.41	14.70	3.44	15.09	3.48
	21	10.54	2.34	12.56	3.02	13.84	3.45	14.06	3.47	14.23	3.49	14.61	3.52	15.00	3.55
	23	10.54	2.51	12.56	3.24	13.67	3.61	13.84	3.63	14.01	3.65	14.40	3.68	14.78	3.72
	25	10.54	2.68	12.56	3.47	13.46	3.77	13.63	3.78	13.84	3.81	14.23	3.85	14.61	3.88
	27	10.54	2.86	12.56	3.71	13.29	3.92	13.46	3.95	13.63	3.97	14.01	4.01	14.40	4.05
	29	10.54	3.06	12.56	3.97	13.07	4.08	13.24	4.11	13.46	4.13	13.84	4.17	14.23	4.22
	31	10.54	3.26	12.51	4.20	12.86	4.25	13.07	4.27	13.24	4.29	13.63	4.34	14.01	4.39
	33	10.54	3.48	12.30	4.35	12.69	4.40	12.86	4.43	13.07	4.45	13.46	4.50	13.80	4.55
	35	10.54	3.71	12.09	4.51	12.47	4.57	12.69	4.59	12.86	4.62	13.24	4.67	13.63	4.72
	37	10.54	3.94	11.91	4.68	12.30	4.73	12.47	4.76	12.69	4.79	13.03	4.84	13.41	4.89
	39	10.54	4.20	11.70	4.72	12.09	4.89	12.30	4.92	12.47	4.95	12.86	5.00	13.24	5.06
42	10.54	4.42	11.58	4.77	11.96	4.93	12.17	4.96	12.34	4.99	12.73	5.01	12.73	5.11	
44	10.54	4.64	11.46	4.82	11.83	4.96	12.05	5.01	12.09	5.01	12.27	5.03	12.43	5.13	
46	10.54	4.87	11.41	4.86	11.70	5.03	11.92	5.03	11.99	5.04	12.05	5.05	12.24	5.30	
120%	10	9.73	1.89	11.57	2.31	13.46	2.75	14.40	2.97	15.09	3.10	15.43	2.98	15.77	2.86
	12	9.73	1.93	11.57	2.35	13.46	2.80	14.40	3.03	14.87	3.08	15.21	2.97	15.56	2.84
	14	9.73	1.97	11.57	2.40	13.46	2.86	14.40	3.09	14.66	3.06	15.04	2.95	15.39	2.97
	16	9.73	2.00	11.57	2.45	13.46	2.91	14.31	3.11	14.49	3.07	14.83	3.10	15.17	3.12
	18	9.73	2.04	11.57	2.50	13.46	3.01	14.10	3.21	14.27	3.23	14.61	3.26	15.00	3.29
	20	9.73	2.08	11.57	2.60	13.46	3.24	13.93	3.37	14.10	3.38	14.44	3.41	14.79	3.44
	21	9.73	2.10	11.57	2.69	13.46	3.35	13.80	3.45	13.97	3.46	14.36	3.49	14.70	3.53
	23	9.73	2.24	11.57	2.88	13.46	3.59	13.63	3.60	13.80	3.62	14.14	3.66	14.49	3.69
	25	9.73	2.40	11.57	3.08	13.24	3.75	13.41	3.76	13.59	3.78	13.97	3.81	14.31	3.85
	27	9.73	2.56	11.57	3.29	13.07	3.90	13.24	3.92	13.41	3.94	13.76	3.98	14.10	4.01
	29	9.73	2.73	11.57	3.52	12.86	4.06	13.03	4.08	13.20	4.10	13.54	4.14	13.93	4.18
	31	9.73	2.91	11.57	3.75	12.64	4.22	12.86	4.24	13.03	4.26	13.37	4.31	13.71	4.35
	33	9.73	3.10	11.57	4.00	12.47	4.38	12.64	4.40	12.81	4.42	13.16	4.47	13.50	4.51
	35	9.73	3.30	11.57	4.27	12.26	4.54	12.43	4.56	12.64	4.58	12.99	4.63	13.33	4.68
	37	9.73	3.51	11.57	4.55	12.09	4.70	12.26	4.72	12.43	4.75	12.77	4.80	13.11	4.85
	39	9.73	3.74	11.53	4.80	11.87	4.86	12.04	4.89	12.21	4.91	12.60	4.97	12.94	5.02
42	9.73	3.87	11.40	4.85	11.75	4.90	11.92	4.93	12.09	4.96	12.48	4.99	12.45	5.07	
44	9.73	3.92	11.34	4.89	11.62	4.94	11.79	4.95	11.97	4.97	12.10	5.00	12.30	5.24	
46	9.73	3.96	11.28	4.94	11.52	4.99	11.67	5.03	11.88	5.03	11.98	5.02	12.20	5.29	
110%	10	8.91	1.72	10.63	2.09	12.34	2.49	13.20	2.69	14.06	2.89	15.13	3.07	15.47	2.97
	12	8.91	1.75	10.63	2.13	12.34	2.54	13.20	2.74	14.06	2.95	14.96	3.06	15.26	2.95
	14	8.91	1.78	10.63	2.17	12.34	2.58	13.20	2.79	14.06	3.00	14.74	3.04	15.09	2.94
	16	8.91	1.81	10.63	2.21	12.34	2.63	13.20	2.84	14.06	3.06	14.57	3.07	14.87	3.11
	18	8.91	1.85	10.63	2.26	12.34	2.69	13.20	2.92	14.06	3.21	14.36	3.23	14.70	3.26
	20	8.91	1.89	10.63	2.30	12.34	2.84	13.20	3.14	13.84	3.37	14.19	3.39	14.49	3.42
	21	8.91	1.90	10.63	2.37	12.34	2.95	13.20	3.26	13.76	3.45	14.06	3.47	14.40	3.50
	23	8.91	2.00	10.63	2.54	12.34	3.16	13.20	3.49	13.54	3.60	13.89	3.63	14.19	3.66
	25	8.91	2.13	10.63	2.72	12.34	3.38	13.20	3.74	13.37	3.75	13.67	3.79	14.01	3.82
	27	8.91	2.27	10.63	2.91	12.34	3.61	12.99	3.90	13.16	3.91	13.50	3.95	13.80	3.98
	29	8.91	2.42	10.63	3.10	12.34	3.86	12.81	4.06	12.99	4.08	13.29	4.11	13.63	4.15
	31	8.91	2.58	10.63	3.31	12.34	4.12	12.60	4.22	12.77	4.23	13.12	4.27	13.41	4.31
	33	8.91	2.74	10.63	3.52	12.26	4.35	12.43	4.37	12.60	4.39	12.90	4.43	13.24	4.48
	35	8.91	2.92	10.63	3.75	12.04	4.51	12.21	4.53	12.39	4.56	12.69	4.60	13.03	4.64
	37	8.91	3.11	10.63	4.00	11.87	4.67	12.04	4.69	12.17	4.71	12.52	4.76	12.81	4.80
	39	8.91	3.30	10.63	4.26	11.66	4.83	11.83	4.85	12.00	4.88	12.30	4.92	12.64	4.97
42	8.91	3.34	10.63	4.30	11.54	4.87	11.71	4.90	11.88	4.92	12.09	4.97	12.14	5.02	
44	8.91	3.39	10.63	4.35	11.41	4.92	11.58	4.94	11.76	4.97	11.98	4.98	12.01	5.20	
46	8.91	3.48	10.63	4.39	11.30	4.96	11.46	5.02	11.67	5.01	11.85	5.24	11.91	5.26	

100%	10	8.10	1.55	9.64	1.88	11.23	2.23	12.00	2.41	12.77	2.59	14.36	2.96	15.17	3.06
	12	8.10	1.58	9.64	1.92	11.23	2.27	12.00	2.45	12.77	2.64	14.36	3.01	14.96	3.04
	14	8.10	1.61	9.64	1.95	11.23	2.31	12.00	2.50	12.77	2.69	14.36	3.07	14.79	3.03
	16	8.10	1.64	9.64	1.99	11.23	2.36	12.00	2.55	12.77	2.74	14.27	3.11	14.57	3.08
	18	8.10	1.67	9.64	2.03	11.23	2.40	12.00	2.60	12.77	2.80	14.10	3.21	14.40	3.24
	20	8.10	1.70	9.64	2.07	11.23	2.47	12.00	2.73	12.77	3.00	13.89	3.37	14.19	3.40
	21	8.10	1.72	9.64	2.09	11.23	2.57	12.00	2.83	12.77	3.10	13.80	3.44	14.10	3.47
	23	8.10	1.76	9.64	2.23	11.23	2.75	12.00	3.03	12.77	3.32	13.63	3.60	13.89	3.63
	25	8.10	1.87	9.64	2.38	11.23	2.94	12.00	3.24	12.77	3.56	13.41	3.76	13.71	3.79
	27	8.10	2.00	9.64	2.53	11.23	3.14	12.00	3.47	12.77	3.81	13.20	3.92	13.50	3.95
	29	8.10	2.13	9.64	2.70	11.23	3.35	12.00	3.71	12.73	4.05	13.03	4.08	13.33	4.11
	31	8.10	2.27	9.64	2.89	11.23	3.58	12.00	3.95	12.56	4.20	12.81	4.24	13.11	4.28
	33	8.10	2.41	9.64	3.07	11.23	3.81	12.00	4.22	12.34	4.36	12.64	4.40	12.94	4.44
	35	8.10	2.56	9.64	3.27	11.23	4.07	12.00	4.50	12.13	4.52	12.43	4.56	12.73	4.60
	37	8.10	2.72	9.64	3.48	11.23	4.34	11.78	4.66	11.96	4.68	12.26	4.72	12.51	4.76
	39	8.10	2.89	9.64	3.70	11.23	4.62	11.61	4.82	11.74	4.84	12.04	4.88	12.34	4.93
42	8.10	3.07	9.64	3.88	11.23	4.84	11.37	4.86	11.62	4.94	11.76	5.00	12.10	5.07	
44	8.10	3.25	9.64	4.06	11.23	4.91	11.13	4.95	11.51	4.98	12.04	5.06	11.79	5.11	
46	8.10	3.43	9.64	4.24	11.23	5.01	10.89	5.00	11.50	5.12	11.56	5.15	11.62	5.20	
90%	10	7.29	1.39	8.70	1.67	10.11	1.98	10.80	2.13	11.49	2.29	12.90	2.62	14.31	2.95
	12	7.29	1.41	8.70	1.70	10.11	2.01	10.80	2.17	11.49	2.33	12.90	2.67	14.31	3.01
	14	7.29	1.44	8.70	1.73	10.11	2.05	10.80	2.21	11.49	2.38	12.90	2.72	14.31	3.06
	16	7.29	1.46	8.70	1.76	10.11	2.09	10.80	2.26	11.49	2.43	12.90	2.77	14.27	3.12
	18	7.29	1.49	8.70	1.80	10.11	2.13	10.80	2.30	11.49	2.47	12.90	2.83	14.10	3.21
	20	7.29	1.52	8.70	1.84	10.11	2.17	10.80	2.35	11.49	2.57	12.90	3.04	13.89	3.37
	21	7.29	1.53	8.70	1.86	10.11	2.21	10.80	2.43	11.49	2.66	12.90	3.15	13.80	3.44
	23	7.29	1.56	8.70	1.93	10.11	2.36	10.80	2.60	11.49	2.85	12.90	3.38	13.59	3.60
	25	7.29	1.64	8.70	2.06	10.11	2.53	10.80	2.78	11.49	3.04	12.90	3.61	13.41	3.76
	27	7.29	1.75	8.70	2.20	10.11	2.70	10.80	2.97	11.49	3.26	12.90	3.87	13.20	3.92
	29	7.29	1.86	8.70	2.34	10.11	2.88	10.80	3.17	11.49	3.48	12.77	4.05	13.03	4.08
	31	7.29	1.98	8.70	2.49	10.11	3.07	10.80	3.38	11.49	3.71	12.56	4.20	12.81	4.24
	33	7.29	2.10	8.70	2.65	10.11	3.27	10.80	3.61	11.49	3.96	12.39	4.37	12.64	4.40
	35	7.29	2.23	8.70	2.82	10.11	3.49	10.80	3.84	11.49	4.22	12.17	4.52	12.43	4.56
	37	7.29	2.36	8.70	3.00	10.11	3.71	10.80	4.09	11.49	4.50	11.96	4.68	12.26	4.72
	39	7.29	2.51	8.70	3.19	10.11	3.95	10.80	4.36	11.49	4.79	11.79	4.85	12.04	4.88
42	7.29	2.63	8.70	3.38	10.11	4.14	10.80	4.51	11.49	4.83	11.68	5.01	11.94	5.04	
44	7.29	2.82	8.70	3.57	10.11	4.33	10.80	4.67	11.49	5.02	11.61	5.06	11.78	5.11	
46	7.29	2.97	8.70	3.73	10.11	4.49	10.80	4.82	11.49	5.10	11.55	5.11	11.57	5.17	
80%	10	6.47	1.23	7.71	1.47	8.96	1.73	9.60	1.87	10.24	2.00	11.49	2.29	12.73	2.58
	12	6.47	1.25	7.71	1.50	8.96	1.76	9.60	1.90	10.24	2.04	11.49	2.33	12.73	2.63
	14	6.47	1.27	7.71	1.53	8.96	1.80	9.60	1.93	10.24	2.08	11.49	2.37	12.73	2.67
	16	6.47	1.29	7.71	1.55	8.96	1.83	9.60	1.97	10.24	2.12	11.49	2.42	12.73	2.72
	18	6.47	1.32	7.71	1.58	8.96	1.87	9.60	2.01	10.24	2.16	11.49	2.47	12.73	2.78
	20	6.47	1.34	7.71	1.61	8.96	1.90	9.60	2.05	10.24	2.20	11.49	2.56	12.73	2.97
	21	6.47	1.35	7.71	1.63	8.96	1.92	9.60	2.07	10.24	2.25	11.49	2.65	12.73	3.08
	23	6.47	1.38	7.71	1.66	8.96	2.01	9.60	2.21	10.24	2.41	11.49	2.84	12.73	3.31
	25	6.47	1.42	7.71	1.76	8.96	2.15	9.60	2.36	10.24	2.57	11.49	3.04	12.73	3.54
	27	6.47	1.51	7.71	1.88	8.96	2.29	9.60	2.52	10.24	2.75	11.49	3.24	12.73	3.78
	29	6.47	1.61	7.71	2.00	8.96	2.44	9.60	2.68	10.24	2.94	11.49	3.46	12.73	4.05
	31	6.47	1.70	7.71	2.13	8.96	2.60	9.60	2.86	10.24	3.13	11.49	3.70	12.51	4.20
	33	6.47	1.81	7.71	2.26	8.96	2.77	9.60	3.04	10.24	3.33	11.49	3.94	12.34	4.36
	35	6.47	1.92	7.71	2.41	8.96	2.95	9.60	3.24	10.24	3.55	11.49	4.20	12.13	4.52
	37	6.47	2.04	7.71	2.55	8.96	3.14	9.60	3.45	10.24	3.78	11.49	4.48	11.96	4.68
	39	6.47	2.16	7.71	2.72	8.96	3.34	9.60	3.67	10.24	4.02	11.49	4.77	11.74	4.84
42	6.47	2.22	7.71	2.76	8.96	3.40	9.60	3.80	10.24	4.12	11.49	4.94	11.65	4.95	
44	6.47	2.32	7.71	2.79	8.96	3.47	9.60	3.86	10.24	4.18	11.49	4.97	11.55	5.00	
46	6.47	2.35	7.71	2.82	8.96	3.53	9.60	3.96	10.24	4.26	11.49	5.04	11.45	5.12	
70%	10	5.66	1.09	6.77	1.29	7.84	1.50	8.40	1.61	8.96	1.73	10.03	1.96	11.14	2.21
	12	5.66	1.10	6.77	1.30	7.84	1.53	8.40	1.64	8.96	1.76	10.03	2.00	11.14	2.25
	14	5.66	1.12	6.77	1.33	7.84	1.55	8.40	1.67	8.96	1.79	10.03	2.04	11.14	2.29
	16	5.66	1.13	6.77	1.35	7.84	1.58	8.40	1.70	8.96	1.83	10.03	2.07	11.14	2.33
	18	5.66	1.15	6.77	1.38	7.84	1.61	8.40	1.73	8.96	1.86	10.03	2.12	11.14	2.38
	20	5.66	1.17	6.77	1.40	7.84	1.64	8.40	1.76	8.96	1.89	10.03	2.16	11.14	2.45
	21	5.66	1.18	6.77	1.41	7.84	1.66	8.40	1.78	8.96	1.91	10.03	2.19	11.14	2.54
23	5.66	1.20	6.77	1.44	7.84	1.69	8.40	1.84	8.96	2.01	10.03	2.35	11.14	2.72	

	25	5.66	1.23	6.77	1.50	7.84	1.80	8.40	1.97	8.96	2.14	10.03	2.51	11.14	2.90
	27	5.66	1.30	6.77	1.59	7.84	1.92	8.40	2.10	8.96	2.29	10.03	2.68	11.14	3.11
	29	5.66	1.38	6.77	1.69	7.84	2.04	8.40	2.24	8.96	2.43	10.03	2.86	11.14	3.32
	31	5.66	1.46	6.77	1.80	7.84	2.18	8.40	2.38	8.96	2.59	10.03	3.04	11.14	3.54
	33	5.66	1.55	6.77	1.91	7.84	2.32	8.40	2.53	8.96	2.76	10.03	3.24	11.14	3.77
	35	5.66	1.64	6.77	2.03	7.84	2.46	8.40	2.69	8.96	2.94	10.03	3.46	11.14	4.02
	37	5.66	1.73	6.77	2.15	7.84	2.61	8.40	2.86	8.96	3.12	10.03	3.68	11.14	4.28
	39	5.66	1.83	6.77	2.27	7.84	2.77	8.40	3.04	8.96	3.32	10.03	3.91	11.14	4.56
	42	5.66	1.94	6.77	2.38	7.84	2.88	8.40	3.17	8.96	3.45	10.03	4.13	11.14	4.83
	44	5.66	2.07	6.77	2.52	7.84	2.97	8.40	3.31	8.96	3.59	10.03	4.32	11.14	4.99
46	5.66	2.16	6.77	2.62	7.84	3.09	8.40	3.42	8.96	3.69	10.03	4.45	11.14	5.10	
60%	10	4.84	0.94	5.79	1.10	6.73	1.28	7.20	1.37	7.67	1.46	8.61	1.66	9.56	1.86
	12	4.84	0.96	5.79	1.12	6.73	1.30	7.20	1.39	7.67	1.49	8.61	1.69	9.56	1.89
	14	4.84	0.97	5.79	1.14	6.73	1.32	7.20	1.42	7.67	1.52	8.61	1.72	9.56	1.92
	16	4.84	0.98	5.79	1.16	6.73	1.35	7.20	1.44	7.67	1.54	8.61	1.75	9.56	1.96
	18	4.84	1.00	5.79	1.18	6.73	1.37	7.20	1.47	7.67	1.57	8.61	1.78	9.56	1.99
	20	4.84	1.01	5.79	1.20	6.73	1.39	7.20	1.50	7.67	1.60	8.61	1.81	9.56	2.04
	21	4.84	1.02	5.79	1.21	6.73	1.41	7.20	1.51	7.67	1.61	8.61	1.83	9.56	2.06
	23	4.84	1.04	5.79	1.23	6.73	1.43	7.20	1.54	7.67	1.64	8.61	1.90	9.56	2.19
	25	4.84	1.06	5.79	1.25	6.73	1.49	7.20	1.61	7.67	1.75	8.61	2.03	9.56	2.33
	27	4.84	1.10	5.79	1.33	6.73	1.58	7.20	1.72	7.67	1.86	8.61	2.16	9.56	2.49
	29	4.84	1.16	5.79	1.41	6.73	1.69	7.20	1.83	7.67	1.98	8.61	2.31	9.56	2.66
	31	4.84	1.23	5.79	1.49	6.73	1.79	7.20	1.95	7.67	2.11	8.61	2.46	9.56	2.83
	33	4.84	1.30	5.79	1.58	6.73	1.90	7.20	2.07	7.67	2.24	8.61	2.61	9.56	3.02
	35	4.84	1.38	5.79	1.68	6.73	2.01	7.20	2.20	7.67	2.38	8.61	2.78	9.56	3.21
37	4.84	1.46	5.79	1.78	6.73	2.13	7.20	2.33	7.67	2.53	8.61	2.96	9.56	3.42	
39	4.84	1.53	5.79	1.88	6.73	2.26	7.20	2.47	7.67	2.69	8.61	3.14	9.56	3.64	
42	4.84	1.60	5.79	1.99	6.73	2.37	7.20	2.60	7.67	2.82	8.61	3.34	9.56	3.86	
44	4.84	1.67	5.79	2.10	6.73	2.48	7.20	2.69	7.67	2.95	8.61	3.52	9.56	4.08	
46	4.84	1.75	5.79	2.20	6.73	2.57	7.20	2.80	7.67	3.10	8.61	3.65	9.56	4.30	
50%	10	4.05	0.81	4.84	0.94	5.61	1.07	6.00	1.15	6.39	1.21	7.16	1.36	7.97	1.52
	12	4.05	0.82	4.84	0.95	5.61	1.09	6.00	1.16	6.39	1.24	7.16	1.39	7.97	1.55
	14	4.05	0.83	4.84	0.96	5.61	1.10	6.00	1.18	6.39	1.26	7.16	1.41	7.97	1.58
	16	4.05	0.84	4.84	0.98	5.61	1.12	6.00	1.20	6.39	1.27	7.16	1.44	7.97	1.60
	18	4.05	0.86	4.84	0.99	5.61	1.14	6.00	1.22	6.39	1.30	7.16	1.46	7.97	1.63
	20	4.05	0.87	4.84	1.01	5.61	1.16	6.00	1.24	6.39	1.32	7.16	1.49	7.97	1.66
	21	4.05	0.87	4.84	1.02	5.61	1.17	6.00	1.25	6.39	1.33	7.16	1.50	7.97	1.68
	23	4.05	0.89	4.84	1.03	5.61	1.19	6.00	1.27	6.39	1.36	7.16	1.53	7.97	1.72
	25	4.05	0.90	4.84	1.05	5.61	1.21	6.00	1.30	6.39	1.40	7.16	1.61	7.97	1.83
	27	4.05	0.92	4.84	1.09	5.61	1.28	6.00	1.38	6.39	1.49	7.16	1.71	7.97	1.95
	29	4.05	0.96	4.84	1.15	5.61	1.36	6.00	1.47	6.39	1.58	7.16	1.82	7.97	2.08
	31	4.05	1.02	4.84	1.22	5.61	1.44	6.00	1.56	6.39	1.68	7.16	1.93	7.97	2.21
	33	4.05	1.08	4.84	1.29	5.61	1.53	6.00	1.65	6.39	1.78	7.16	2.06	7.97	2.35
	35	4.05	1.14	4.84	1.36	5.61	1.61	6.00	1.75	6.39	1.89	7.16	2.18	7.97	2.50
37	4.05	1.20	4.84	1.44	5.61	1.71	6.00	1.85	6.39	2.00	7.16	2.32	7.97	2.66	
39	4.05	1.27	4.84	1.52	5.61	1.81	6.00	1.96	6.39	2.12	7.16	2.46	7.97	2.82	
42	4.05	1.34	4.84	1.61	5.61	1.89	6.00	2.08	6.39	2.24	7.16	2.63	7.97	2.99	
44	4.05	1.41	4.84	1.70	5.61	1.98	6.00	2.20	6.39	2.30	7.16	2.81	7.97	3.17	
46	4.05	1.47	4.84	1.78	5.61	2.07	6.00	2.31	6.39	2.37	7.16	2.98	7.97	3.34	

Note:

- 1, [shaded] is shown as reference
- 2, In cooling mode, avoid the outdoor air temperature range from 42-46 degree C, when selecting the models
- 3, The above table shows the average value of conditions may operate
- 4, It is recommended to connect less than 130%.

Heating

Combination (%) (Capacity index)	Outdoor Air temperature (°C DB)		Indoor temperature(°C WB)											
			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	8.55	2.72	8.51	2.91	8.47	3.11	8.47	3.20	8.42	3.29	8.42	3.49
	-18.8	-19	8.67	2.78	8.63	2.97	8.63	3.16	8.59	3.25	8.59	3.34	8.55	3.54
	-16.7	-17	9.01	2.91	8.97	3.09	8.92	3.27	8.92	3.36	8.92	3.45	8.88	3.64
	-13.7	-15	9.39	3.04	9.35	3.22	9.30	3.39	9.30	3.48	9.26	3.57	9.26	3.75
	-11.8	-13	9.76	3.18	9.76	3.35	9.72	3.52	9.68	3.60	9.68	3.68	9.64	3.85
	-9.8	-11	10.23	3.32	10.18	3.48	10.14	3.64	10.14	3.72	10.14	3.80	10.10	3.96
	-9.5	-10	10.48	3.39	10.43	3.55	10.39	3.70	10.39	3.78	10.35	3.86	10.35	4.01
	-8.5	-9.1	10.68	3.45	10.64	3.60	10.64	3.76	10.60	3.83	10.60	3.90	10.56	4.06
	-7	-7.6	11.06	3.55	11.06	3.70	11.02	3.85	11.02	3.92	10.98	3.99	10.94	4.14
	-5	-5.6	11.65	3.68	11.61	3.82	11.56	3.97	11.56	4.03	11.52	4.10	11.52	4.24
	-3	-3.7	12.19	3.80	12.15	3.94	12.15	4.07	12.11	4.14	12.11	4.20	12.07	4.33
	0	-0.7	13.16	3.99	13.16	4.11	13.12	4.23	13.12	4.28	13.07	4.36	13.07	4.48
	3	2.2	14.20	4.16	14.16	4.27	14.12	4.39	14.12	4.44	14.12	4.50	14.08	4.61
	5	4.1	14.92	4.26	14.88	4.37	14.88	4.48	14.83	4.53	14.83	4.59	14.79	4.69
	7	6	15.67	4.36	15.63	4.46	15.63	4.56	15.59	4.62	15.59	4.66	14.96	4.48
9	7.9	16.47	4.45	16.43	4.55	16.43	4.64	16.39	4.70	16.05	4.60	14.96	4.21	
11	9.8	17.31	4.54	17.27	4.63	17.18	4.69	16.59	4.51	16.05	4.32	14.96	3.97	
13	11.8	18.23	4.62	18.19	4.72	17.18	4.40	16.59	4.22	16.05	4.06	14.96	3.72	
15	13.7	19.11	4.71	18.27	4.46	17.18	4.14	16.59	3.98	16.05	3.82	14.96	3.51	
120%	-19.8	-20	8.51	2.98	8.46	3.15	8.42	3.33	8.42	3.42	8.42	3.51	8.38	3.69
	-18.8	-19	8.63	3.03	8.59	3.21	8.59	3.38	8.55	3.47	8.55	3.56	8.51	3.73
	-16.7	-17	8.97	3.15	8.93	3.32	8.87	3.49	8.88	3.58	8.88	3.66	8.84	3.82
	-13.7	-15	9.35	3.28	9.30	3.44	9.26	3.60	9.26	3.69	9.26	3.76	9.22	3.93
	-11.8	-13	9.72	3.41	9.72	3.56	9.68	3.72	9.68	3.79	9.64	3.87	9.64	4.02
	-9.8	-11	10.18	3.53	10.14	3.68	10.14	3.83	10.10	3.91	10.10	3.98	10.06	4.13
	-9.5	-10	10.44	3.60	10.39	3.75	10.35	3.88	10.35	3.96	10.35	4.03	10.31	4.17
	-8.5	-9.1	10.64	3.65	10.60	3.79	10.60	3.93	10.56	4.01	10.56	4.08	10.52	4.22
	-7	-7.6	11.02	3.75	11.02	3.88	10.98	4.02	10.98	4.09	10.94	4.16	10.94	4.29
	-5	-5.6	11.61	3.87	11.57	4.00	11.52	4.13	11.52	4.20	11.52	4.26	11.48	4.39
	-3	-3.7	12.15	3.99	12.15	4.11	12.11	4.23	12.11	4.29	12.07	4.36	12.07	4.48
	0	-0.7	13.12	4.16	13.12	4.27	13.07	4.38	13.07	4.44	13.03	4.49	13.03	4.61
	3	2.2	14.16	4.31	14.12	4.42	14.12	4.52	14.08	4.57	14.08	4.63	13.79	4.60
	5	4.1	14.88	4.40	14.83	4.51	14.83	4.60	14.79	4.66	14.79	4.71	13.79	4.32
	7	6	15.63	4.49	15.63	4.59	15.59	4.69	15.34	4.62	14.83	4.43	13.79	4.07
9	7.9	16.43	4.59	16.39	4.68	15.84	4.52	15.34	4.34	14.83	4.17	13.79	3.82	
11	9.8	17.27	4.66	16.85	4.59	15.84	4.25	15.34	4.08	14.83	3.92	13.79	3.61	
13	11.8	17.89	4.62	16.85	4.30	15.84	3.99	15.34	3.84	14.83	3.69	13.79	3.39	
15	13.7	17.89	4.35	16.85	4.05	15.84	3.76	15.34	3.61	14.83	3.47	13.79	3.20	
110%	-19.8	-20	8.46	3.24	8.42	3.40	8.38	3.56	8.38	3.65	8.38	3.73	8.34	3.89
	-18.8	-19	8.59	3.29	8.55	3.45	8.55	3.61	8.55	3.69	8.51	3.77	8.51	3.93
	-16.7	-17	8.93	3.40	8.88	3.55	9.01	3.71	8.84	3.79	8.84	3.87	8.80	4.02
	-13.7	-15	9.30	3.52	9.26	3.67	9.22	3.81	9.22	3.89	9.22	3.96	9.18	4.10
	-11.8	-13	9.68	3.63	9.68	3.77	9.64	3.92	9.64	3.99	9.60	4.06	9.60	4.20
	-9.8	-11	10.14	3.75	10.10	3.89	10.10	4.02	10.06	4.09	10.06	4.16	10.06	4.29
	-9.5	-10	10.39	3.81	10.35	3.94	10.31	4.08	10.31	4.14	10.31	4.21	10.27	4.34
	-8.5	-9.1	10.60	3.86	10.56	3.99	10.56	4.12	10.52	4.19	10.52	4.25	10.52	3.88
	-7	-7.6	10.98	3.95	10.98	4.07	10.94	4.20	10.94	4.26	10.94	4.32	10.90	4.44
	-5	-5.6	11.57	4.06	11.52	4.18	11.48	4.30	11.48	4.36	11.48	4.42	11.44	4.54
	-3	-3.7	12.11	4.16	12.11	4.28	12.07	4.39	12.07	4.44	12.03	4.50	12.03	4.62
	0	-0.7	13.07	4.32	13.07	4.43	13.03	4.53	13.03	4.58	13.03	4.64	12.66	4.54
	3	2.2	14.12	4.47	14.08	4.56	14.08	4.65	14.04	4.70	13.58	4.51	12.66	4.14
	5	4.1	14.83	4.55	14.83	4.64	14.54	4.60	14.04	4.42	13.58	4.24	12.66	3.89
	7	6	15.59	4.64	15.46	4.67	14.54	4.32	14.04	4.15	13.58	3.99	12.66	3.66
9	7.9	16.38	4.71	15.46	4.38	14.54	4.06	14.04	3.90	13.58	3.75	12.66	3.45	
11	9.8	16.38	4.43	15.46	4.13	14.54	3.83	14.04	3.68	13.58	3.54	12.66	3.26	
13	11.8	16.38	4.16	15.46	3.87	14.54	3.60	14.04	3.46	13.58	3.33	12.66	3.07	
15	13.7	16.38	3.69	15.46	3.65	14.54	3.40	14.04	3.27	13.58	3.15	12.66	2.90	
100%	-19.8	-20	8.42	3.50	8.38	3.65	8.38	3.79	8.34	3.87	8.34	3.94	8.30	4.09
	-18.8	-19	8.55	3.55	8.55	3.69	8.51	3.83	8.51	3.91	8.47	3.99	8.47	4.13
	-16.7	-17	8.88	3.65	8.84	3.78	8.84	3.93	8.80	4.00	8.80	4.06	8.80	4.20

	-13.7	-15	9.26	3.75	9.22	3.89	9.18	4.02	9.18	4.09	9.18	4.15	9.14	4.29
	-11.8	-13	9.64	3.86	9.64	3.99	9.60	4.11	9.60	4.18	9.60	4.25	9.55	4.38
	-9.8	-11	10.10	3.97	10.06	4.09	10.06	4.21	10.06	4.28	10.01	4.34	10.01	4.45
	-9.5	-10	10.35	4.02	10.31	4.14	10.31	4.26	10.27	4.32	10.27	4.38	10.22	4.50
	-8.5	-9.1	10.56	4.06	10.52	4.18	10.52	4.30	10.52	4.36	10.48	4.42	10.48	4.53
	-7	-7.6	10.94	4.14	10.94	4.26	10.90	4.37	10.90	4.43	10.90	4.48	10.85	4.60
	-5	-5.6	11.52	4.25	11.48	4.36	11.48	4.46	11.44	4.51	11.44	4.57	11.40	4.68
	-3	-3.7	12.07	4.35	12.07	3.95	12.03	4.55	12.03	4.60	12.03	4.65	11.52	4.45
	0	-0.7	13.03	4.48	13.03	4.58	12.99	4.68	12.78	4.60	12.36	4.41	11.52	4.04
	3	2.2	14.08	4.61	14.04	4.70	13.20	4.35	12.78	4.18	12.36	4.02	11.52	3.68
	5	4.1	14.79	4.70	14.04	4.42	13.20	4.09	12.78	3.93	12.36	3.78	11.52	3.48
	7	6	14.88	4.46	14.04	4.15	13.20	3.85	12.78	3.70	12.36	3.56	11.52	3.27
	9	7.9	14.88	4.19	14.04	3.91	13.20	3.63	12.78	3.44	12.36	3.35	11.52	3.09
	11	9.8	14.88	3.95	14.04	3.68	13.20	3.42	12.78	3.29	12.36	3.17	11.52	2.92
	13	11.8	14.88	3.70	14.04	3.46	13.20	3.22	12.78	3.10	12.36	2.98	11.52	2.76
15	13.7	14.88	3.50	14.04	3.27	13.20	3.04	12.78	2.93	12.36	2.82	11.52	2.61	
90%	-19.8	-20	8.37	3.76	8.32	3.89	8.32	4.02	8.28	4.09	8.28	4.16	8.28	4.29
	-18.8	-19	8.49	3.80	8.49	3.93	8.45	4.06	8.45	4.13	8.45	4.19	8.41	4.33
	-16.7	-17	8.83	3.89	8.78	4.02	8.78	4.14	8.78	4.21	8.74	4.27	8.74	4.39
	-13.7	-15	9.20	3.99	9.16	4.11	9.16	4.23	9.12	4.29	9.12	4.35	9.12	4.47
	-11.8	-13	9.58	4.09	9.58	4.20	9.54	4.31	9.54	4.38	9.54	4.43	9.50	4.55
	-9.8	-11	10.04	4.18	10.04	4.29	10.00	4.40	10.00	4.45	10.00	4.51	9.96	4.62
	-9.5	-10	10.29	4.23	10.25	4.34	10.25	4.45	10.21	4.50	10.21	4.55	10.21	4.66
	-8.5	-9.1	10.50	4.28	10.50	4.38	10.46	4.48	10.46	4.53	10.46	4.59	10.33	4.63
	-7	-7.6	10.88	4.35	10.88	4.45	10.83	4.55	10.83	4.60	10.83	4.65	10.33	4.43
	-5	-5.6	11.46	4.44	11.42	4.53	11.42	4.63	11.38	4.68	11.09	4.53	10.33	4.16
	-3	-3.7	12.01	4.52	12.01	4.62	11.88	4.63	11.46	4.45	11.09	4.27	10.33	3.92
	0	-0.7	13.01	4.65	12.63	4.54	11.88	4.21	11.46	4.04	11.09	3.88	10.33	3.56
	3	2.2	13.39	4.43	12.63	4.13	11.88	3.83	11.46	3.68	11.09	3.54	10.33	3.26
	5	4.1	13.39	4.17	12.63	3.88	11.88	3.61	11.46	3.47	11.09	3.34	10.33	3.07
	7	6	13.39	3.92	12.63	3.66	11.88	3.40	11.46	3.27	11.09	3.15	10.33	2.90
9	7.9	13.39	3.70	12.63	3.44	11.88	3.20	11.46	3.09	11.09	2.97	10.33	2.75	
11	9.8	13.39	3.48	12.63	3.25	11.88	3.03	11.46	2.92	11.09	2.81	10.33	2.60	
13	11.8	13.39	3.27	12.63	3.07	11.88	2.85	11.46	2.75	11.09	2.66	10.33	2.46	
15	13.7	13.39	3.09	12.63	2.90	11.88	2.70	11.46	2.61	11.09	2.51	10.33	2.33	
80%	-19.8	-20	8.34	4.02	8.30	4.13	8.30	4.25	8.30	4.31	8.25	4.37	8.25	4.49
	-18.8	-19	8.46	4.05	8.46	4.17	8.42	4.29	8.42	4.35	8.42	4.40	8.38	4.52
	-16.7	-17	8.80	4.14	8.76	4.25	8.76	4.36	8.76	4.42	8.76	4.47	8.72	4.58
	-13.7	-15	9.18	4.22	9.14	4.33	9.14	4.44	9.14	4.49	9.09	4.54	9.09	4.65
	-11.8	-13	9.55	4.31	9.55	4.41	9.51	4.51	9.51	4.56	9.51	4.62	9.22	4.49
	-9.8	-11	10.02	4.39	10.02	4.49	9.97	4.59	9.97	4.64	9.89	4.63	9.22	4.24
	-9.5	-10	10.27	4.44	10.22	4.53	10.23	4.63	10.23	4.68	9.89	4.49	9.22	4.12
	-8.5	-9.1	10.48	4.48	9.74	4.57	10.43	4.66	10.23	4.56	9.89	4.37	9.22	4.01
	-7	-7.6	10.85	4.54	10.85	4.63	10.56	4.53	10.23	4.35	9.89	4.18	9.22	3.83
	-5	-5.6	11.44	4.62	11.23	4.60	10.56	4.26	10.23	4.09	9.89	3.93	9.22	3.61
	-3	-3.7	11.90	4.65	11.23	4.33	10.56	4.01	10.23	3.86	9.89	3.70	9.22	3.41
	0	-0.7	11.90	4.22	11.23	3.93	10.56	3.65	10.23	3.51	9.89	3.37	9.22	3.11
	3	2.2	11.90	3.84	11.23	3.58	10.56	3.33	10.23	3.21	9.89	3.09	9.22	2.85
	5	4.1	11.90	3.62	11.23	3.38	10.56	3.14	10.23	3.03	9.89	2.92	9.22	2.69
	7	6	11.90	3.41	11.23	3.19	10.56	2.97	10.23	2.86	9.89	2.76	9.22	2.55
9	7.9	11.90	3.22	11.23	3.01	10.56	2.80	10.23	2.70	9.89	2.61	9.22	2.41	
11	9.8	11.90	3.04	11.23	2.84	10.56	2.65	10.23	2.56	9.89	2.47	9.22	2.29	
13	11.8	11.90	2.86	11.23	2.68	10.56	2.51	10.23	2.42	9.89	2.33	9.22	2.17	
15	13.7	11.90	2.71	11.23	2.54	10.56	2.38	10.23	2.29	9.89	2.21	9.22	2.06	
70%	-19.8	-20	8.28	4.28	8.24	4.38	8.24	4.48	8.24	4.53	8.24	4.59	8.03	4.54
	-18.8	-19	8.40	4.31	8.40	4.41	8.36	4.51	8.36	4.56	8.36	4.62	8.03	4.44
	-16.7	-17	8.74	4.38	8.74	4.48	8.70	4.58	8.70	4.63	8.61	4.12	8.03	4.24
	-13.7	-15	9.11	4.46	9.07	4.55	9.07	4.65	8.91	4.58	8.61	4.39	8.03	4.03
	-11.8	-13	9.49	4.53	9.49	4.62	9.24	4.51	8.91	4.34	8.61	4.16	8.03	3.82
	-9.8	-11	9.95	4.61	9.82	4.60	9.24	4.26	8.91	4.10	8.61	3.93	8.03	3.61
	-9.5	-10	10.20	4.65	9.82	4.47	9.24	4.14	8.91	3.98	8.61	3.82	8.03	3.51
	-8.5	-9.1	10.41	4.67	9.82	4.35	9.24	4.03	8.91	3.87	8.61	3.72	8.03	3.42
	-7	-7.6	10.41	4.46	9.82	4.15	9.24	3.85	8.91	3.71	8.61	3.56	8.03	3.28
-5	-5.6	10.41	4.19	9.82	3.91	9.24	3.63	8.91	3.49	8.61	4.12	8.03	3.09	
-3	-3.7	10.41	3.95	9.82	3.68	9.24	3.42	8.91	3.29	8.61	3.17	8.03	2.92	

	0	-0.7	10.41	3.59	9.82	3.36	9.24	3.12	8.91	3.01	8.61	2.90	8.03	2.68
	3	2.2	10.41	3.28	9.82	3.07	9.24	2.86	8.91	2.76	8.61	2.66	8.03	2.46
	5	4.1	10.41	3.10	9.82	2.90	9.24	2.71	8.91	2.61	8.61	2.51	8.03	2.33
	7	6	10.41	2.93	9.82	2.74	9.24	2.56	8.91	2.47	8.61	2.38	8.03	2.21
	9	7.9	10.41	2.77	9.82	2.59	9.24	2.42	8.91	2.34	8.61	2.26	8.03	2.09
	11	9.8	10.41	2.62	9.82	2.45	9.24	2.30	8.91	2.22	8.61	2.14	8.03	1.99
	13	11.8	10.41	2.47	9.82	2.32	9.24	2.17	8.91	2.10	8.61	2.03	8.03	1.89
	15	13.7	10.41	2.34	9.82	2.20	9.24	2.06	8.91	2.00	8.61	1.93	8.03	1.80
60%	-19.8	-20	8.26	4.54	8.21	4.62	7.92	4.45	7.67	4.27	7.42	4.10	6.91	3.76
	-18.8	-19	8.38	4.57	8.38	4.65	7.92	4.35	7.67	4.18	7.42	4.01	6.91	3.68
	-16.7	-17	8.72	4.63	8.42	4.48	7.92	4.15	7.67	3.99	7.42	3.83	6.91	3.52
	-13.7	-15	8.93	4.58	8.42	4.26	7.92	3.95	7.67	3.80	7.42	3.65	6.91	3.35
	-11.8	-13	8.93	4.33	8.42	4.03	7.92	3.74	7.67	3.60	7.42	3.46	6.91	3.20
	-9.8	-11	8.93	4.09	8.42	3.81	7.92	3.54	7.67	3.41	7.42	3.28	6.91	3.02
	-9.5	-10	8.93	3.98	8.42	3.71	7.92	3.44	7.67	3.32	7.42	3.19	6.91	2.94
	-8.5	-9.1	8.93	3.87	8.42	3.61	7.92	3.36	7.67	3.23	7.42	3.11	6.91	2.87
	-7	-7.6	8.93	3.70	8.42	3.46	7.92	3.21	7.67	3.10	7.42	2.98	6.91	2.75
	-5	-5.6	8.93	3.49	8.42	3.26	7.92	3.03	7.67	2.92	7.42	2.81	6.91	2.60
	-3	-3.7	8.93	3.29	8.42	3.08	7.92	2.87	7.67	2.77	7.42	2.66	6.91	2.46
	0	-0.7	8.93	3.01	8.42	2.82	7.92	2.63	7.67	2.54	7.42	2.44	6.91	2.26
	3	2.2	8.93	2.76	8.42	2.59	7.92	2.42	7.67	2.33	7.42	2.25	6.91	2.09
	5	4.1	8.93	2.61	8.42	2.45	7.92	2.29	7.67	2.21	7.42	2.13	6.91	1.98
	7	6	8.93	2.47	8.42	2.32	7.92	2.17	7.67	2.10	7.42	2.03	6.91	1.88
	9	7.9	8.93	2.34	8.42	2.20	7.92	2.06	7.67	1.99	7.42	1.92	6.91	1.79
11	9.8	8.93	2.22	8.42	2.09	7.92	1.96	7.67	1.89	7.42	1.83	6.91	1.71	
13	11.8	8.93	2.10	8.42	1.98	7.92	1.86	7.67	1.80	7.42	1.74	6.91	1.62	
15	13.7	8.93	2.00	8.42	1.88	7.92	1.77	7.67	1.71	7.42	1.66	6.91	1.55	
50%	-19.8	-20	7.44	4.13	7.02	3.84	6.60	3.57	6.35	3.44	6.14	3.30	5.72	3.04
	-18.8	-19	7.44	4.04	7.02	3.76	6.60	3.50	6.35	3.36	6.14	3.23	5.72	2.98
	-16.7	-17	7.44	3.85	7.02	3.59	6.60	3.34	6.35	3.22	6.14	3.10	5.72	2.86
	-13.7	-15	7.44	3.67	7.02	3.42	6.60	3.18	6.35	3.07	6.14	2.95	5.72	2.73
	-11.8	-13	7.44	3.48	7.02	3.25	6.60	3.03	6.35	2.92	6.14	2.81	5.72	2.60
	-9.8	-11	7.44	3.30	7.02	3.08	6.60	2.87	6.35	2.77	6.14	2.67	5.72	2.47
	-9.5	-10	7.44	3.21	7.02	3.00	6.60	2.80	6.35	2.70	6.14	2.60	5.72	2.40
	-8.5	-9.1	7.44	3.13	7.02	2.93	6.60	2.73	6.35	2.63	6.14	2.54	5.72	2.35
	-7	-7.6	7.44	3.00	7.02	2.81	6.60	2.62	6.35	2.53	6.14	2.44	5.72	2.26
	-5	-5.6	7.44	2.83	7.02	2.65	6.60	2.48	6.35	2.39	6.14	2.31	5.72	2.14
	-3	-3.7	7.44	2.68	7.02	2.51	6.60	2.35	6.35	2.27	6.14	2.19	5.72	2.03
	0	-0.7	7.44	2.46	7.02	2.31	6.60	2.16	6.35	2.09	6.14	2.02	5.72	1.88
	3	2.2	7.44	2.26	7.02	2.13	6.60	1.99	6.35	1.93	6.14	1.86	5.72	1.74
	5	4.1	7.44	2.15	7.02	2.02	6.60	1.89	6.35	1.83	6.14	1.77	5.72	1.65
	7	6	7.44	2.04	7.02	1.92	6.60	1.80	6.35	1.74	6.14	1.69	5.72	1.58
	9	7.9	7.44	1.93	7.02	1.82	6.60	1.71	6.35	1.66	6.14	1.61	5.72	1.50
11	9.8	7.44	1.84	7.02	1.73	6.60	1.63	6.35	1.58	6.14	1.53	5.72	1.43	
13	11.8	7.44	1.75	7.02	1.65	6.60	1.55	6.35	1.51	6.14	1.46	5.72	1.37	
15	13.7	7.44	1.66	7.02	1.57	6.60	1.48	6.35	1.44	6.14	1.39	5.72	1.31	

Note:

- 1, is shown as reference
- 2, In heating mode, avoid the outdoor air temperature range from -15 to -20 degree C, when selecting the models
- 3, The above table shows the average value of conditions may operate
- 4, It is recommended to connect less than 130%

38VR005H119010

Cooling

Combi nation (% Capa city)	Outdoor Air tempera ture(°C DB)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
130%	10	12.30	2.30	14.65	2.82	17.00	3.35	17.65	3.42	17.85	3.36	18.30	3.21	18.75	3.07
	12	12.30	2.35	14.65	2.87	17.00	3.42	17.40	3.40	17.65	3.34	18.05	3.19	18.50	3.14
	14	12.30	2.39	14.65	2.92	16.95	3.46	17.20	3.42	17.40	3.32	17.85	3.29	18.30	3.32
	16	12.30	2.43	14.65	2.99	16.75	3.44	16.95	3.39	17.15	3.43	17.60	3.46	18.05	3.50
	18	12.30	2.48	14.65	3.05	16.50	3.57	16.70	3.59	16.95	3.61	17.40	3.65	17.85	3.68
	20	12.30	2.53	14.65	3.24	16.25	3.75	16.50	3.77	16.70	3.79	17.15	3.82	17.60	3.86
	21	12.30	2.60	14.65	3.36	16.15	3.83	16.40	3.85	16.60	3.88	17.05	3.92	17.50	3.95
	23	12.30	2.79	14.65	3.60	15.95	4.01	16.15	4.03	16.35	4.05	16.80	4.09	17.25	4.13
	25	12.30	2.98	14.65	3.85	15.70	4.18	15.90	4.21	16.15	4.23	16.60	4.27	17.05	4.31
	27	12.30	3.18	14.65	4.12	15.50	4.36	15.70	4.39	15.90	4.41	16.35	4.45	16.80	4.50
	29	12.30	3.40	14.65	4.41	15.25	4.54	15.45	4.56	15.70	4.59	16.15	4.64	16.60	4.68
	31	12.30	3.63	14.60	4.66	15.00	4.72	15.25	4.74	15.45	4.76	15.90	4.82	16.35	4.87
	33	12.30	3.86	14.35	4.84	14.80	4.89	15.00	4.92	15.25	4.95	15.70	5.00	16.10	5.05
	35	12.30	4.12	14.10	5.01	14.55	5.07	14.80	5.10	15.00	5.13	15.45	5.19	15.90	5.24
	37	12.30	4.38	13.90	5.20	14.35	5.26	14.55	5.28	14.80	5.32	15.20	5.38	15.65	5.44
	39	12.30	4.66	13.65	5.25	14.10	5.43	14.35	5.47	14.55	5.50	15.00	5.56	15.45	5.63
42	12.30	4.91	13.51	5.30	13.95	5.48	14.20	5.52	14.40	5.55	14.85	5.57	14.86	5.68	
44	12.30	5.16	13.37	5.35	13.80	5.51	14.05	5.57	14.11	5.57	14.31	5.59	14.50	5.70	
46	12.30	5.41	13.31	5.40	13.66	5.58	13.91	5.59	13.99	5.60	14.06	5.61	14.28	5.89	
120%	10	11.35	2.10	13.50	2.57	15.70	3.05	16.80	3.30	17.60	3.44	18.00	3.31	18.40	3.18
	12	11.35	2.14	13.50	2.61	15.70	3.11	16.80	3.36	17.35	3.42	17.75	3.30	18.15	3.16
	14	11.35	2.18	13.50	2.67	15.70	3.17	16.80	3.43	17.10	3.40	17.55	3.28	17.95	3.30
	16	11.35	2.22	13.50	2.72	15.70	3.23	16.70	3.46	16.90	3.41	17.30	3.44	17.70	3.47
	18	11.35	2.26	13.50	2.78	15.70	3.34	16.45	3.57	16.65	3.58	17.05	3.62	17.50	3.65
	20	11.35	2.31	13.50	2.88	15.70	3.60	16.25	3.75	16.45	3.76	16.85	3.79	17.25	3.83
	21	11.35	2.33	13.50	2.99	15.70	3.73	16.10	3.83	16.30	3.85	16.75	3.88	17.15	3.92
	23	11.35	2.49	13.50	3.20	15.70	3.99	15.90	4.00	16.10	4.02	16.50	4.06	16.90	4.10
	25	11.35	2.66	13.50	3.42	15.45	4.16	15.65	4.18	15.85	4.20	16.30	4.24	16.70	4.28
	27	11.35	2.84	13.50	3.66	15.25	4.33	15.45	4.36	15.65	4.38	16.05	4.42	16.45	4.46
	29	11.35	3.03	13.50	3.91	15.00	4.51	15.20	4.53	15.40	4.56	15.80	4.60	16.25	4.64
	31	11.35	3.23	13.50	4.17	14.75	4.69	15.00	4.71	15.20	4.74	15.60	4.78	16.00	4.83
	33	11.35	3.44	13.50	4.45	14.55	4.87	14.75	4.89	14.95	4.91	15.35	4.97	15.75	5.01
	35	11.35	3.67	13.50	4.74	14.30	5.04	14.50	5.07	14.75	5.09	15.15	5.15	15.55	5.20
	37	11.35	3.90	13.50	5.05	14.10	5.22	14.30	5.25	14.50	5.28	14.90	5.33	15.30	5.39
	39	11.35	4.15	13.45	5.34	13.85	5.40	14.05	5.43	14.25	5.46	14.70	5.52	15.10	5.57
42	11.35	4.30	13.31	5.39	13.71	5.45	13.91	5.48	14.11	5.51	14.55	5.54	14.52	5.63	
44	11.35	4.35	13.23	5.44	13.56	5.49	13.76	5.50	13.96	5.52	14.12	5.56	14.36	5.83	
46	11.35	4.40	13.16	5.49	13.44	5.55	13.62	5.59	13.86	5.59	13.97	5.57	14.23	5.88	
110%	10	10.40	1.91	12.40	2.32	14.40	2.76	15.40	2.99	16.40	3.21	17.65	3.41	18.05	3.30
	12	10.40	1.95	12.40	2.37	14.40	2.82	15.40	3.05	16.40	3.28	17.45	3.40	17.80	3.28
	14	10.40	1.98	12.40	2.41	14.40	2.87	15.40	3.10	16.40	3.34	17.20	3.38	17.60	3.27
	16	10.40	2.02	12.40	2.46	14.40	2.92	15.40	3.16	16.40	3.40	17.00	3.42	17.35	3.45
	18	10.40	2.06	12.40	2.51	14.40	2.99	15.40	3.25	16.40	3.57	16.75	3.59	17.15	3.63
	20	10.40	2.10	12.40	2.56	14.40	3.16	15.40	3.49	16.15	3.74	16.55	3.77	16.90	3.80
	21	10.40	2.12	12.40	2.63	14.40	3.28	15.40	3.62	16.05	3.83	16.40	3.85	16.80	3.89
	23	10.40	2.22	12.40	2.82	14.40	3.51	15.40	3.88	15.80	4.00	16.20	4.04	16.55	4.07
	25	10.40	2.37	12.40	3.02	14.40	3.75	15.40	4.16	15.60	4.17	15.95	4.21	16.35	4.25
	27	10.40	2.52	12.40	3.23	14.40	4.02	15.15	4.33	15.35	4.35	15.75	4.39	16.10	4.43
	29	10.40	2.69	12.40	3.44	14.40	4.29	14.95	4.51	15.15	4.53	15.50	4.57	15.90	4.61
	31	10.40	2.86	12.40	3.67	14.40	4.58	14.70	4.68	14.90	4.70	15.30	4.74	15.65	4.79
	33	10.40	3.05	12.40	3.92	14.30	4.83	14.50	4.86	14.70	4.88	15.05	4.93	15.45	4.97
	35	10.40	3.24	12.40	4.17	14.05	5.01	14.25	5.03	14.45	5.06	14.80	5.11	15.20	5.16
	37	10.40	3.45	12.40	4.44	13.85	5.19	14.05	5.21	14.20	5.24	14.60	5.29	14.95	5.34
	39	10.40	3.67	12.40	4.73	13.60	5.36	13.80	5.39	14.00	5.42	14.35	5.47	14.75	5.53
42	10.40	3.72	12.40	4.78	13.46	5.41	13.66	5.44	13.86	5.47	14.11	5.52	14.16	5.58	
44	10.40	3.77	12.40	4.83	13.32	5.46	13.52	5.49	13.72	5.52	13.98	5.54	14.02	5.78	
46	10.40	3.86	12.40	4.88	13.19	5.52	13.37	5.57	13.61	5.57	13.82	5.82	13.90	5.84	
100%	10	9.45	1.73	11.25	2.09	13.10	2.47	14.00	2.68	14.90	2.88	16.75	3.29	17.70	3.40
	12	9.45	1.75	11.25	2.13	13.10	2.52	14.00	2.72	14.90	2.93	16.75	3.35	17.45	3.38

	14	9.45	1.79	11.25	2.17	13.10	2.57	14.00	2.78	14.90	2.99	16.75	3.42	17.25	3.36
	16	9.45	1.82	11.25	2.21	13.10	2.62	14.00	2.83	14.90	3.05	16.65	3.46	17.00	3.42
	18	9.45	1.85	11.25	2.25	13.10	2.67	14.00	2.88	14.90	3.11	16.45	3.57	16.80	3.60
	20	9.45	1.89	11.25	2.30	13.10	2.75	14.00	3.03	14.90	3.33	16.20	3.74	16.55	3.77
	21	9.45	1.91	11.25	2.32	13.10	2.85	14.00	3.14	14.90	3.44	16.10	3.83	16.45	3.86
	23	9.45	1.95	11.25	2.47	13.10	3.05	14.00	3.36	14.90	3.69	15.90	4.00	16.20	4.04
	25	9.45	2.08	11.25	2.64	13.10	3.27	14.00	3.61	14.90	3.96	15.65	4.18	16.00	4.21
	27	9.45	2.22	11.25	2.82	13.10	3.49	14.00	3.85	14.90	4.23	15.40	4.35	15.75	4.39
	29	9.45	2.37	11.25	3.01	13.10	3.73	14.00	4.12	14.85	4.49	15.20	4.54	15.55	4.57
	31	9.45	2.52	11.25	3.21	13.10	3.98	14.00	4.39	14.65	4.67	14.95	4.71	15.30	4.75
	33	9.45	2.68	11.25	3.42	13.10	4.24	14.00	4.69	14.40	4.85	14.75	4.89	15.10	4.93
	35	9.45	2.84	11.25	3.63	13.10	4.52	14.00	5.00	14.15	5.02	14.50	5.07	14.85	5.11
	37	9.45	3.03	11.25	3.87	13.10	4.82	13.75	5.18	13.95	5.20	14.30	5.25	14.60	5.29
	39	9.45	3.21	11.25	4.11	13.10	5.13	13.55	5.35	13.70	5.38	14.05	5.42	14.40	5.48
	42	9.45	3.41	11.25	4.31	13.10	5.38	13.27	5.40	13.56	5.49	13.73	5.55	14.12	5.63
	44	9.45	3.61	11.25	4.51	13.10	5.45	12.99	5.50	13.43	5.54	14.05	5.62	13.76	5.68
46	9.45	3.81	11.25	4.71	13.10	5.56	12.71	5.55	13.42	5.69	13.49	5.72	13.56	5.78	
90%	10	8.50	1.54	10.15	1.86	11.80	2.20	12.60	2.37	13.40	2.55	15.05	2.91	16.70	3.28
	12	8.50	1.57	10.15	1.89	11.80	2.24	12.60	2.41	13.40	2.59	15.05	2.96	16.70	3.34
	14	8.50	1.60	10.15	1.93	11.80	2.28	12.60	2.46	13.40	2.64	15.05	3.02	16.70	3.40
	16	8.50	1.62	10.15	1.96	11.80	2.32	12.60	2.51	13.40	2.70	15.05	3.08	16.65	3.46
	18	8.50	1.65	10.15	2.00	11.80	2.36	12.60	2.55	13.40	2.75	15.05	3.14	16.45	3.57
	20	8.50	1.68	10.15	2.05	11.80	2.41	12.60	2.61	13.40	2.85	15.05	3.38	16.20	3.74
	21	8.50	1.70	10.15	2.06	11.80	2.45	12.60	2.70	13.40	2.95	15.05	3.50	16.10	3.83
	23	8.50	1.73	10.15	2.14	11.80	2.63	12.60	2.89	13.40	3.17	15.05	3.75	15.85	4.00
	25	8.50	1.83	10.15	2.29	11.80	2.81	12.60	3.09	13.40	3.38	15.05	4.02	15.65	4.18
	27	8.50	1.94	10.15	2.44	11.80	3.00	12.60	3.30	13.40	3.62	15.05	4.30	15.40	4.35
	29	8.50	2.07	10.15	2.60	11.80	3.20	12.60	3.52	13.40	3.87	14.90	4.49	15.20	4.53
	31	8.50	2.20	10.15	2.77	11.80	3.41	12.60	3.76	13.40	4.12	14.65	4.67	14.95	4.71
	33	8.50	2.33	10.15	2.94	11.80	3.64	12.60	4.01	13.40	4.40	14.45	4.85	14.75	4.89
	35	8.50	2.48	10.15	3.13	11.80	3.87	12.60	4.27	13.40	4.69	14.20	5.03	14.50	5.07
	37	8.50	2.63	10.15	3.33	11.80	4.12	12.60	4.55	13.40	5.00	13.95	5.20	14.30	5.24
	39	8.50	2.79	10.15	3.54	11.80	4.39	12.60	4.84	13.40	5.32	13.75	5.38	14.05	5.42
42	8.50	2.92	10.15	3.76	11.80	4.60	12.60	5.02	13.40	5.37	13.62	5.57	13.92	5.60	
44	8.50	3.13	10.15	3.97	11.80	4.81	12.60	5.19	13.40	5.57	13.55	5.62	13.75	5.68	
46	8.50	3.30	10.15	4.14	11.80	4.98	12.60	5.36	13.40	5.67	13.47	5.68	13.50	5.75	
80%	10	7.55	1.37	9.00	1.64	10.45	1.93	11.20	2.08	11.95	2.22	13.40	2.54	14.85	2.86
	12	7.55	1.39	9.00	1.66	10.45	1.96	11.20	2.12	11.95	2.27	13.40	2.59	14.85	2.92
	14	7.55	1.42	9.00	1.70	10.45	1.99	11.20	2.15	11.95	2.31	13.40	2.63	14.85	2.97
	16	7.55	1.44	9.00	1.73	10.45	2.03	11.20	2.19	11.95	2.35	13.40	2.69	14.85	3.03
	18	7.55	1.46	9.00	1.76	10.45	2.08	11.20	2.24	11.95	2.40	13.40	2.74	14.85	3.09
	20	7.55	1.49	9.00	1.79	10.45	2.12	11.20	2.28	11.95	2.45	13.40	2.84	14.85	3.30
	21	7.55	1.50	9.00	1.81	10.45	2.14	11.20	2.30	11.95	2.50	13.40	2.95	14.85	3.42
	23	7.55	1.53	9.00	1.85	10.45	2.24	11.20	2.45	11.95	2.68	13.40	3.15	14.85	3.67
	25	7.55	1.58	9.00	1.96	10.45	2.39	11.20	2.62	11.95	2.86	13.40	3.38	14.85	3.93
	27	7.55	1.68	9.00	2.09	10.45	2.55	11.20	2.80	11.95	3.05	13.40	3.61	14.85	4.20
	29	7.55	1.79	9.00	2.22	10.45	2.72	11.20	2.98	11.95	3.26	13.40	3.85	14.85	4.49
	31	7.55	1.89	9.00	2.37	10.45	2.89	11.20	3.17	11.95	3.48	13.40	4.11	14.60	4.67
	33	7.55	2.01	9.00	2.51	10.45	3.08	11.20	3.38	11.95	3.70	13.40	4.38	14.40	4.85
	35	7.55	2.14	9.00	2.68	10.45	3.27	11.20	3.60	11.95	3.94	13.40	4.67	14.15	5.02
	37	7.55	2.26	9.00	2.84	10.45	3.48	11.20	3.83	11.95	4.20	13.40	4.98	13.95	5.20
	39	7.55	2.40	9.00	3.03	10.45	3.71	11.20	4.08	11.95	4.47	13.40	5.30	13.70	5.38
42	7.55	2.47	9.00	3.06	10.45	3.78	11.20	4.22	11.95	4.58	13.40	5.48	13.59	5.50	
44	7.55	2.58	9.00	3.10	10.45	3.85	11.20	4.29	11.95	4.65	13.40	5.52	13.48	5.56	
46	7.55	2.62	9.00	3.13	10.45	3.93	11.20	4.40	11.95	4.74	13.40	5.60	13.36	5.69	
70%	10	6.60	1.21	7.90	1.43	9.15	1.66	9.80	1.79	10.45	1.92	11.70	2.18	13.00	2.45
	12	6.60	1.22	7.90	1.45	9.15	1.70	9.80	1.83	10.45	1.95	11.70	2.22	13.00	2.50
	14	6.60	1.24	7.90	1.48	9.15	1.73	9.80	1.85	10.45	1.99	11.70	2.26	13.00	2.55
	16	6.60	1.26	7.90	1.50	9.15	1.76	9.80	1.89	10.45	2.03	11.70	2.30	13.00	2.59
	18	6.60	1.28	7.90	1.53	9.15	1.79	9.80	1.93	10.45	2.06	11.70	2.35	13.00	2.65
	20	6.60	1.30	7.90	1.56	9.15	1.83	9.80	1.96	10.45	2.10	11.70	2.40	13.00	2.72
	21	6.60	1.31	7.90	1.57	9.15	1.84	9.80	1.98	10.45	2.12	11.70	2.43	13.00	2.82
	23	6.60	1.33	7.90	1.60	9.15	1.88	9.80	2.05	10.45	2.23	11.70	2.61	13.00	3.02
25	6.60	1.36	7.90	1.66	9.15	2.00	9.80	2.19	10.45	2.38	11.70	2.79	13.00	3.23	
27	6.60	1.44	7.90	1.77	9.15	2.14	9.80	2.33	10.45	2.54	11.70	2.98	13.00	3.45	

	29	6.60	1.53	7.90	1.88	9.15	2.27	9.80	2.49	10.45	2.70	11.70	3.17	13.00	3.69
	31	6.60	1.62	7.90	1.99	9.15	2.42	9.80	2.64	10.45	2.88	11.70	3.38	13.00	3.93
	33	6.60	1.72	7.90	2.12	9.15	2.57	9.80	2.81	10.45	3.07	11.70	3.61	13.00	4.19
	35	6.60	1.82	7.90	2.25	9.15	2.73	9.80	2.99	10.45	3.26	11.70	3.84	13.00	4.47
	37	6.60	1.92	7.90	2.39	9.15	2.90	9.80	3.17	10.45	3.47	11.70	4.09	13.00	4.76
	39	6.60	2.04	7.90	2.53	9.15	3.08	9.80	3.38	10.45	3.69	11.70	4.35	13.00	5.07
	42	6.60	2.15	7.90	2.65	9.15	3.20	9.80	3.53	10.45	3.84	11.70	4.59	13.00	5.37
	44	6.60	2.30	7.90	2.80	9.15	3.30	9.80	3.68	10.45	3.99	11.70	4.80	13.00	5.55
	46	6.60	2.40	7.90	2.92	9.15	3.44	9.80	3.80	10.45	4.11	11.70	4.94	13.00	5.67
	60%	10	5.65	1.04	6.75	1.23	7.85	1.42	8.40	1.52	8.95	1.62	10.05	1.84	11.15
12		5.65	1.06	6.75	1.25	7.85	1.45	8.40	1.55	8.95	1.65	10.05	1.87	11.15	2.10
14		5.65	1.08	6.75	1.27	7.85	1.47	8.40	1.58	8.95	1.68	10.05	1.91	11.15	2.14
16		5.65	1.09	6.75	1.29	7.85	1.50	8.40	1.60	8.95	1.71	10.05	1.94	11.15	2.18
18		5.65	1.11	6.75	1.31	7.85	1.52	8.40	1.63	8.95	1.75	10.05	1.97	11.15	2.22
20		5.65	1.13	6.75	1.33	7.85	1.55	8.40	1.66	8.95	1.78	10.05	2.01	11.15	2.26
21		5.65	1.14	6.75	1.34	7.85	1.56	8.40	1.68	8.95	1.79	10.05	2.03	11.15	2.28
23		5.65	1.15	6.75	1.37	7.85	1.59	8.40	1.71	8.95	1.83	10.05	2.12	11.15	2.43
25		5.65	1.17	6.75	1.39	7.85	1.65	8.40	1.79	8.95	1.94	10.05	2.26	11.15	2.59
27		5.65	1.22	6.75	1.48	7.85	1.76	8.40	1.91	8.95	2.07	10.05	2.41	11.15	2.77
29		5.65	1.29	6.75	1.56	7.85	1.87	8.40	2.03	8.95	2.20	10.05	2.57	11.15	2.96
31		5.65	1.37	6.75	1.66	7.85	1.99	8.40	2.16	8.95	2.34	10.05	2.73	11.15	3.15
33		5.65	1.44	6.75	1.76	7.85	2.11	8.40	2.30	8.95	2.49	10.05	2.90	11.15	3.36
35		5.65	1.53	6.75	1.87	7.85	2.24	8.40	2.44	8.95	2.65	10.05	3.09	11.15	3.57
37		5.65	1.62	6.75	1.97	7.85	2.37	8.40	2.59	8.95	2.81	10.05	3.29	11.15	3.80
39		5.65	1.70	6.75	2.09	7.85	2.51	8.40	2.74	8.95	2.98	10.05	3.49	11.15	4.04
42		5.65	1.78	6.75	2.21	7.85	2.64	8.40	2.89	8.95	3.13	10.05	3.71	11.15	4.29
44		5.65	1.85	6.75	2.33	7.85	2.76	8.40	2.99	8.95	3.27	10.05	3.91	11.15	4.53
46	5.65	1.95	6.75	2.44	7.85	2.85	8.40	3.11	8.95	3.45	10.05	4.05	11.15	4.77	
50%	10	4.73	0.90	5.65	1.04	6.55	1.19	7.00	1.27	7.45	1.35	8.35	1.52	9.30	1.69
	12	4.73	0.91	5.65	1.06	6.55	1.21	7.00	1.29	7.45	1.37	8.35	1.54	9.30	1.72
	14	4.73	0.92	5.65	1.07	6.55	1.23	7.00	1.31	7.45	1.39	8.35	1.57	9.30	1.75
	16	4.73	0.94	5.65	1.08	6.55	1.25	7.00	1.33	7.45	1.42	8.35	1.60	9.30	1.78
	18	4.73	0.95	5.65	1.10	6.55	1.27	7.00	1.35	7.45	1.44	8.35	1.62	9.30	1.81
	20	4.73	0.96	5.65	1.12	6.55	1.29	7.00	1.37	7.45	1.47	8.35	1.65	9.30	1.85
	21	4.73	0.97	5.65	1.13	6.55	1.30	7.00	1.39	7.45	1.48	8.35	1.67	9.30	1.87
	23	4.73	0.98	5.65	1.15	6.55	1.32	7.00	1.42	7.45	1.51	8.35	1.70	9.30	1.91
	25	4.73	1.00	5.65	1.17	6.55	1.35	7.00	1.44	7.45	1.56	8.35	1.79	9.30	2.03
	27	4.73	1.02	5.65	1.21	6.55	1.42	7.00	1.54	7.45	1.65	8.35	1.90	9.30	2.17
	29	4.73	1.07	5.65	1.28	6.55	1.51	7.00	1.63	7.45	1.76	8.35	2.02	9.30	2.31
	31	4.73	1.13	5.65	1.35	6.55	1.60	7.00	1.73	7.45	1.87	8.35	2.15	9.30	2.46
	33	4.73	1.20	5.65	1.44	6.55	1.70	7.00	1.83	7.45	1.98	8.35	2.28	9.30	2.61
	35	4.73	1.27	5.65	1.52	6.55	1.79	7.00	1.94	7.45	2.10	8.35	2.43	9.30	2.78
	37	4.73	1.33	5.65	1.60	6.55	1.90	7.00	2.05	7.45	2.22	8.35	2.57	9.30	2.95
	39	4.73	1.41	5.65	1.69	6.55	2.01	7.00	2.18	7.45	2.36	8.35	2.73	9.30	3.13
	42	4.73	1.49	5.65	1.79	6.55	2.10	7.00	2.31	7.45	2.49	8.35	2.92	9.30	3.33
	44	4.73	1.56	5.65	1.89	6.55	2.20	7.00	2.45	7.45	2.55	8.35	3.12	9.30	3.52
46	4.73	1.64	5.65	1.98	6.55	2.30	7.00	2.56	7.45	2.63	8.35	3.31	9.30	3.72	

Note:

- 1, is shown as reference
- 2, In cooling mode, avoid the outdoor air temperature range from 42-46 degree C, when selecting the models
- 3, The above table shows the average value of conditions may operate
- 4, It is recommended to connect less than 130%

Heating

Combination (%) (Capacity index)	Outdoor Air temperature (°C DB)		Indoor temperature(°C WB)											
			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	9.97	3.11	9.92	3.33	9.88	3.55	9.88	3.66	9.83	3.77	9.83	3.99
	-18.8	-19	10.12	3.18	10.07	3.39	10.07	3.61	10.02	3.72	10.02	3.82	9.97	4.04
	-16.7	-17	10.51	3.33	10.46	3.53	10.41	3.74	10.41	3.85	10.41	3.95	10.36	4.15
	-13.7	-15	10.95	3.48	10.90	3.68	10.85	3.88	10.85	3.98	10.80	4.08	10.80	4.28
	-11.8	-13	11.39	3.63	11.39	3.83	11.34	4.02	11.29	4.11	11.29	4.21	11.24	4.40
	-9.8	-11	11.93	3.79	11.88	3.98	11.83	4.16	11.83	4.25	11.83	4.34	11.78	4.53
	-9.5	-10	12.22	3.87	12.17	4.05	12.12	4.23	12.12	4.32	12.08	4.41	12.08	4.58
	-8.5	-9.1	12.47	3.94	12.42	4.11	12.42	4.29	12.37	4.38	12.37	4.46	12.32	4.64
	-7	-7.6	12.91	4.06	12.91	4.23	12.86	4.39	12.86	4.48	12.81	4.56	12.76	4.73
	-5	-5.6	13.59	4.21	13.54	4.37	13.49	4.53	13.49	4.61	13.44	4.69	13.44	4.85
	-3	-3.7	14.23	4.35	14.18	4.50	14.18	4.65	14.13	4.73	14.13	4.81	14.08	4.95
	0	-0.7	15.35	4.56	15.35	4.70	15.30	4.84	15.30	4.89	15.25	4.98	15.25	5.12
	3	2.2	16.57	4.75	16.52	4.88	16.48	5.01	16.48	5.07	16.48	5.14	16.43	5.27
	5	4.1	17.40	4.87	17.35	4.99	17.35	5.11	17.31	5.18	17.31	5.24	17.26	5.36
	7	6	18.28	4.98	18.24	5.10	18.24	5.22	18.19	5.27	18.19	5.33	17.45	5.12
9	7.9	19.21	5.09	19.16	5.20	19.16	5.31	19.12	5.37	18.72	5.25	17.45	4.81	
11	9.8	20.19	5.19	20.14	5.29	20.04	5.36	19.36	5.15	18.72	4.94	17.45	4.53	
13	11.8	21.27	5.29	21.22	5.39	20.04	5.02	19.36	4.82	18.72	4.63	17.45	4.25	
15	13.7	22.29	5.38	21.32	5.10	20.04	4.73	19.36	4.55	18.72	4.37	17.45	4.01	
120%	-19.8	-20	9.92	3.41	9.88	3.61	9.83	3.81	9.83	3.91	9.83	4.01	9.78	4.22
	-18.8	-19	10.07	3.47	10.02	3.67	10.02	3.87	9.97	3.97	9.97	4.07	9.92	4.27
	-16.7	-17	10.46	3.61	10.41	3.80	10.35	3.99	10.36	4.09	10.36	4.18	10.32	4.37
	-13.7	-15	10.90	3.75	10.85	3.93	10.81	4.11	10.81	4.21	10.81	4.30	10.76	4.49
	-11.8	-13	11.34	3.89	11.34	4.07	11.29	4.25	11.29	4.34	11.25	4.42	11.25	4.60
	-9.8	-11	11.88	4.04	11.83	4.21	11.83	4.38	11.78	4.46	11.78	4.54	11.73	4.71
	-9.5	-10	12.17	4.11	12.13	4.28	12.08	4.44	12.08	4.53	12.08	4.61	12.03	4.77
	-8.5	-9.1	12.42	4.18	12.37	4.34	12.37	4.50	12.32	4.58	12.32	4.66	12.27	4.82
	-7	-7.6	12.86	4.29	12.86	4.44	12.81	4.59	12.81	4.67	12.76	4.75	12.76	4.90
	-5	-5.6	13.54	4.42	13.49	4.57	13.44	4.72	13.44	4.79	13.44	4.87	13.40	5.01
	-3	-3.7	14.18	4.55	14.18	4.70	14.13	4.83	14.13	4.90	14.08	4.98	14.08	5.11
	0	-0.7	15.30	4.75	15.30	4.88	15.25	5.01	15.25	5.07	15.20	5.14	15.20	5.27
	3	2.2	16.53	4.93	16.48	5.05	16.48	5.17	16.43	5.23	16.43	5.29	16.08	5.26
	5	4.1	17.36	5.03	17.31	5.15	17.31	5.26	17.26	5.32	17.26	5.38	16.08	4.94
	7	6	18.24	5.14	18.24	5.25	18.19	5.35	17.89	5.28	17.31	5.06	16.08	4.65
9	7.9	19.17	5.24	19.12	5.34	18.48	5.17	17.89	4.96	17.31	4.76	16.08	4.37	
11	9.8	20.14	5.33	19.65	5.24	18.48	4.86	17.89	4.67	17.31	4.48	16.08	4.12	
13	11.8	20.88	5.28	19.65	4.91	18.48	4.55	17.89	4.38	17.31	4.21	16.08	3.87	
15	13.7	20.88	4.97	19.65	4.63	18.48	4.30	17.89	4.13	17.31	3.97	16.08	3.66	
110%	-19.8	-20	9.88	3.70	9.83	3.89	9.78	4.07	9.78	4.17	9.78	4.26	9.73	4.45
	-18.8	-19	10.02	3.76	9.97	3.94	9.97	4.13	9.97	4.22	9.92	4.31	9.92	4.49
	-16.7	-17	10.41	3.89	10.37	4.06	10.51	4.24	10.32	4.33	10.32	4.42	10.27	4.59
	-13.7	-15	10.85	4.02	10.81	4.19	10.76	4.35	10.76	4.44	10.76	4.53	10.71	4.69
	-11.8	-13	11.29	4.15	11.29	4.31	11.24	4.47	11.24	4.55	11.19	4.63	11.19	4.80
	-9.8	-11	11.83	4.29	11.78	4.44	11.78	4.59	11.73	4.67	11.73	4.75	11.73	4.90
	-9.5	-10	12.12	4.35	12.08	4.50	12.03	4.66	12.03	4.73	12.03	4.81	11.98	4.95
	-8.5	-9.1	12.37	4.41	12.32	4.56	12.32	4.71	12.27	4.78	12.27	4.86	12.27	4.43
	-7	-7.6	12.81	4.51	12.81	4.65	12.76	4.79	12.76	4.87	12.76	4.94	12.71	5.08
	-5	-5.6	13.49	4.64	13.44	4.78	13.40	4.91	13.40	4.98	13.40	5.05	13.35	5.18
	-3	-3.7	14.13	4.76	14.13	4.89	14.08	5.02	14.08	5.08	14.03	5.14	14.03	5.27
	0	-0.7	15.25	4.94	15.25	5.06	15.21	5.18	15.21	5.23	15.21	5.30	14.76	5.19
	3	2.2	16.48	5.10	16.43	5.21	16.43	5.32	16.38	5.37	15.84	5.15	14.76	4.73
	5	4.1	17.31	5.20	17.31	5.31	16.96	5.26	16.38	5.05	15.84	4.85	14.76	4.45
	7	6	18.19	5.30	18.04	5.33	16.96	4.94	16.38	4.74	15.84	4.55	14.76	4.18
9	7.9	19.12	5.38	18.04	5.01	16.96	4.65	16.38	4.46	15.84	4.29	14.76	3.94	
11	9.8	19.12	5.06	18.04	4.71	16.96	4.37	16.38	4.21	15.84	4.04	14.76	3.72	
13	11.8	19.12	4.75	18.04	4.42	16.96	4.11	16.38	3.95	15.84	3.80	14.76	3.50	
15	13.7	19.12	4.22	18.04	4.17	16.96	3.88	16.38	3.73	15.84	3.59	14.76	3.31	
100%	-19.8	-20	9.83	4.00	9.78	4.17	9.78	4.34	9.73	4.42	9.73	4.50	9.68	4.67
	-18.8	-19	9.97	4.05	9.97	4.22	9.92	4.38	9.92	4.47	9.88	4.55	9.88	4.72
	-16.7	-17	10.36	4.17	10.31	4.33	10.31	4.49	10.27	4.57	10.27	4.65	10.27	4.81

	-13.7	-15	10.80	4.29	10.76	4.44	10.71	4.59	10.71	4.67	10.71	4.75	10.66	4.90
	-11.8	-13	11.25	4.41	11.25	4.55	11.20	4.70	11.20	4.78	11.20	4.85	11.15	5.00
	-9.8	-11	11.78	4.53	11.73	4.67	11.73	4.81	11.73	4.89	11.68	4.95	11.68	5.09
	-9.5	-10	12.08	4.59	12.03	4.73	12.03	4.87	11.98	4.94	11.98	5.01	11.93	5.14
	-8.5	-9.1	12.32	4.65	12.27	4.78	12.27	4.91	12.27	4.98	12.22	5.05	12.22	5.18
	-7	-7.6	12.76	4.74	12.76	4.87	12.71	4.99	12.71	5.06	12.71	5.13	12.66	5.26
	-5	-5.6	13.44	4.86	13.39	4.98	13.39	5.10	13.35	5.16	13.35	5.22	13.30	5.35
	-3	-3.7	14.08	4.97	14.08	4.51	14.03	5.20	14.03	5.26	14.03	5.31	13.44	5.09
	0	-0.7	15.20	5.13	15.20	5.23	15.16	5.34	14.91	5.26	14.42	5.04	13.44	4.62
	3	2.2	16.43	5.27	16.38	5.37	15.40	4.97	14.91	4.78	14.42	4.59	13.44	4.21
	5	4.1	17.26	5.37	16.38	5.05	15.40	4.67	14.91	4.50	14.42	4.32	13.44	3.97
	7	6	17.36	5.10	16.38	4.74	15.40	4.40	14.91	4.23	14.42	4.07	13.44	3.74
	9	7.9	17.36	4.79	16.38	4.46	15.40	4.14	14.91	3.94	14.42	3.83	13.44	3.53
	11	9.8	17.36	4.51	16.38	4.21	15.40	3.91	14.91	3.76	14.42	3.62	13.44	3.34
	13	11.8	17.36	4.23	16.38	3.95	15.40	3.68	14.91	3.54	14.42	3.41	13.44	3.15
15	13.7	17.36	3.99	16.38	3.73	15.40	3.47	14.91	3.35	14.42	3.22	13.44	2.98	
90%	-19.8	-20	9.76	4.30	9.71	4.45	9.71	4.60	9.66	4.67	9.66	4.75	9.66	4.90
	-18.8	-19	9.91	4.34	9.91	4.50	9.86	4.65	9.86	4.72	9.86	4.79	9.81	4.94
	-16.7	-17	10.30	4.45	10.25	4.59	10.25	4.74	10.25	4.81	10.20	4.88	10.20	5.02
	-13.7	-15	10.74	4.56	10.69	4.70	10.69	4.83	10.64	4.90	10.64	4.97	10.64	5.11
	-11.8	-13	11.18	4.67	11.18	4.80	11.13	4.93	11.13	5.00	11.13	5.06	11.08	5.19
	-9.8	-11	11.71	4.78	11.71	4.90	11.66	5.03	11.66	5.09	11.66	5.16	11.61	5.29
	-9.5	-10	12.01	4.83	11.96	4.96	11.96	5.08	11.91	5.14	11.91	5.21	11.91	5.33
	-8.5	-9.1	12.25	4.89	12.25	5.01	12.20	5.13	12.20	5.18	12.20	5.25	12.05	5.30
	-7	-7.6	12.69	4.97	12.69	5.08	12.64	5.20	12.64	5.26	12.64	5.31	12.05	5.06
	-5	-5.6	13.37	5.07	13.32	5.18	13.32	5.29	13.27	5.35	12.93	5.18	12.05	4.75
	-3	-3.7	14.01	5.17	14.01	5.27	13.86	5.30	13.37	5.09	12.93	4.88	12.05	4.48
	0	-0.7	15.18	5.32	14.74	5.19	13.86	4.81	13.37	4.62	12.93	4.43	12.05	4.07
	3	2.2	15.62	5.07	14.74	4.72	13.86	4.38	13.37	4.21	12.93	4.05	12.05	3.73
	5	4.1	15.62	4.77	14.74	4.44	13.86	4.13	13.37	3.97	12.93	3.82	12.05	3.51
	7	6	15.62	4.48	14.74	4.18	13.86	3.89	13.37	3.74	12.93	3.60	12.05	3.32
9	7.9	15.62	4.22	14.74	3.94	13.86	3.66	13.37	3.53	12.93	3.40	12.05	3.14	
11	9.8	15.62	3.98	14.74	3.71	13.86	3.46	13.37	3.34	12.93	3.21	12.05	2.97	
13	11.8	15.62	3.74	14.74	3.50	13.86	3.26	13.37	3.15	12.93	3.03	12.05	2.81	
15	13.7	15.62	3.54	14.74	3.31	13.86	3.09	13.37	2.98	12.93	2.87	12.05	2.66	
80%	-19.8	-20	9.73	4.59	9.68	4.73	9.68	4.86	9.68	4.93	9.63	5.00	9.63	5.13
	-18.8	-19	9.88	4.63	9.88	4.77	9.83	4.90	9.83	4.97	9.83	5.03	9.78	5.17
	-16.7	-17	10.27	4.73	10.22	4.86	10.22	4.99	10.22	5.05	10.22	5.11	10.17	5.24
	-13.7	-15	10.71	4.83	10.66	4.95	10.66	5.07	10.66	5.13	10.61	5.19	10.61	5.32
	-11.8	-13	11.15	4.93	11.15	5.05	11.10	5.16	11.10	5.22	11.10	5.28	10.76	5.14
	-9.8	-11	11.68	5.02	11.68	5.14	11.64	5.25	11.64	5.30	11.54	5.29	10.76	4.85
	-9.5	-10	11.98	5.07	11.93	5.18	11.93	5.29	11.93	5.35	11.54	5.14	10.76	4.71
	-8.5	-9.1	12.22	5.12	11.36	5.23	12.17	5.33	11.93	5.21	11.54	5.00	10.76	4.58
	-7	-7.6	12.66	5.19	12.66	5.30	12.32	5.18	11.93	4.98	11.54	4.78	10.76	4.38
	-5	-5.6	13.35	5.29	13.10	5.26	12.32	4.87	11.93	4.68	11.54	4.49	10.76	4.13
	-3	-3.7	13.88	5.31	13.10	4.95	12.32	4.58	11.93	4.41	11.54	4.23	10.76	3.90
	0	-0.7	13.88	4.82	13.10	4.49	12.32	4.17	11.93	4.02	11.54	3.86	10.76	3.55
	3	2.2	13.88	4.39	13.10	4.10	12.32	3.81	11.93	3.67	11.54	3.53	10.76	3.26
	5	4.1	13.88	4.14	13.10	3.86	12.32	3.59	11.93	3.46	11.54	3.34	10.76	3.08
	7	6	13.88	3.90	13.10	3.65	12.32	3.39	11.93	3.27	11.54	3.15	10.76	2.91
9	7.9	13.88	3.68	13.10	3.44	12.32	3.21	11.93	3.09	11.54	2.98	10.76	2.76	
11	9.8	13.88	3.47	13.10	3.25	12.32	3.03	11.93	2.93	11.54	2.82	10.76	2.62	
13	11.8	13.88	3.27	13.10	3.07	12.32	2.87	11.93	2.77	11.54	2.67	10.76	2.47	
15	13.7	13.88	3.10	13.10	2.91	12.32	2.72	11.93	2.62	11.54	2.53	10.76	2.35	
70%	-19.8	-20	9.66	4.89	9.61	5.01	9.61	5.13	9.61	5.18	9.61	5.25	9.37	5.19
	-18.8	-19	9.80	4.93	9.80	5.05	9.76	5.16	9.76	5.22	9.76	5.28	9.37	5.08
	-16.7	-17	10.19	5.01	10.19	5.13	10.15	5.23	10.15	5.29	10.05	4.71	9.37	4.85
	-13.7	-15	10.63	5.10	10.58	5.21	10.58	5.31	10.39	5.23	10.05	5.02	9.37	4.61
	-11.8	-13	11.07	5.18	11.07	5.29	10.78	5.16	10.39	4.96	10.05	4.76	9.37	4.37
	-9.8	-11	11.61	5.27	11.46	5.26	10.78	4.87	10.39	4.69	10.05	4.50	9.37	4.13
	-9.5	-10	11.90	5.31	11.46	5.11	10.78	4.73	10.39	4.55	10.05	4.37	9.37	4.02
	-8.5	-9.1	12.15	5.34	11.46	4.97	10.78	4.61	10.39	4.43	10.05	4.26	9.37	3.91
	-7	-7.6	12.15	5.10	11.46	4.75	10.78	4.41	10.39	4.24	10.05	4.07	9.37	3.75
-5	-5.6	12.15	4.79	11.46	4.47	10.78	4.15	10.39	3.99	10.05	4.71	9.37	3.54	
-3	-3.7	12.15	4.51	11.46	4.21	10.78	3.91	10.39	3.77	10.05	3.62	9.37	3.34	

	0	-0.7	12.15	4.11	11.46	3.84	10.78	3.57	10.39	3.44	10.05	3.31	9.37	3.06
	3	2.2	12.15	3.75	11.46	3.51	10.78	3.27	10.39	3.15	10.05	3.04	9.37	2.81
	5	4.1	12.15	3.54	11.46	3.31	10.78	3.10	10.39	2.98	10.05	2.87	9.37	2.66
	7	6	12.15	3.35	11.46	3.14	10.78	2.93	10.39	2.82	10.05	2.73	9.37	2.53
	9	7.9	12.15	3.17	11.46	2.97	10.78	2.77	10.39	2.67	10.05	2.58	9.37	2.39
	11	9.8	12.15	2.99	11.46	2.81	10.78	2.63	10.39	2.54	10.05	2.45	9.37	2.27
	13	11.8	12.15	2.83	11.46	2.66	10.78	2.49	10.39	2.41	10.05	2.32	9.37	2.16
	15	13.7	12.15	2.68	11.46	2.52	10.78	2.36	10.39	2.29	10.05	2.21	9.37	2.06
60%	-19.8	-20	9.63	5.19	9.58	5.29	9.24	5.09	8.95	4.89	8.65	4.69	8.07	4.30
	-18.8	-19	9.78	5.22	9.78	5.32	9.24	4.98	8.95	4.78	8.65	4.59	8.07	4.21
	-16.7	-17	10.17	5.29	9.83	5.13	9.24	4.75	8.95	4.57	8.65	4.38	8.07	4.03
	-13.7	-15	10.41	5.23	9.83	4.87	9.24	4.51	8.95	4.34	8.65	4.17	8.07	3.83
	-11.8	-13	10.41	4.95	9.83	4.61	9.24	4.28	8.95	4.12	8.65	3.96	8.07	3.66
	-9.8	-11	10.41	4.68	9.83	4.36	9.24	4.05	8.95	3.90	8.65	3.75	8.07	3.46
	-9.5	-10	10.41	4.55	9.83	4.24	9.24	3.94	8.95	3.79	8.65	3.65	8.07	3.36
	-8.5	-9.1	10.41	4.43	9.83	4.13	9.24	3.84	8.95	3.70	8.65	3.55	8.07	3.28
	-7	-7.6	10.41	4.23	9.83	3.95	9.24	3.67	8.95	3.54	8.65	3.41	8.07	3.15
	-5	-5.6	10.41	3.99	9.83	3.73	9.24	3.47	8.95	3.34	8.65	3.22	8.07	2.98
	-3	-3.7	10.41	3.77	9.83	3.52	9.24	3.28	8.95	3.17	8.65	3.05	8.07	2.82
	0	-0.7	10.41	3.44	9.83	3.22	9.24	3.01	8.95	2.90	8.65	2.79	8.07	2.59
	3	2.2	10.41	3.15	9.83	2.96	9.24	2.77	8.95	2.67	8.65	2.58	8.07	2.39
	5	4.1	10.41	2.98	9.83	2.80	9.24	2.62	8.95	2.53	8.65	2.44	8.07	2.27
	7	6	10.41	2.82	9.83	2.65	9.24	2.48	8.95	2.40	8.65	2.32	8.07	2.15
	9	7.9	10.41	2.67	9.83	2.51	9.24	2.35	8.95	2.28	8.65	2.20	8.07	2.05
11	9.8	10.41	2.54	9.83	2.39	9.24	2.24	8.95	2.17	8.65	2.09	8.07	1.95	
13	11.8	10.41	2.40	9.83	2.26	9.24	2.13	8.95	2.06	8.65	1.99	8.07	1.86	
15	13.7	10.41	2.29	9.83	2.15	9.24	2.02	8.95	1.96	8.65	1.90	8.07	1.77	
50%	-19.8	-20	8.67	4.72	8.19	4.39	7.70	4.08	7.41	3.93	7.16	3.78	6.68	3.48
	-18.8	-19	8.67	4.62	8.19	4.30	7.70	4.00	7.41	3.85	7.16	3.70	6.68	3.41
	-16.7	-17	8.67	4.41	8.19	4.11	7.70	3.82	7.41	3.68	7.16	3.54	6.68	3.27
	-13.7	-15	8.67	4.19	8.19	3.91	7.70	3.64	7.41	3.51	7.16	3.38	6.68	3.12
	-11.8	-13	8.67	3.98	8.19	3.72	7.70	3.46	7.41	3.34	7.16	3.21	6.68	2.97
	-9.8	-11	8.67	3.77	8.19	3.53	7.70	3.29	7.41	3.17	7.16	3.05	6.68	2.82
	-9.5	-10	8.67	3.67	8.19	3.43	7.70	3.20	7.41	3.09	7.16	2.97	6.68	2.75
	-8.5	-9.1	8.67	3.58	8.19	3.35	7.70	3.12	7.41	3.01	7.16	2.90	6.68	2.69
	-7	-7.6	8.67	3.43	8.19	3.21	7.70	2.99	7.41	2.89	7.16	2.79	6.68	2.58
	-5	-5.6	8.67	3.23	8.19	3.03	7.70	2.83	7.41	2.74	7.16	2.64	6.68	2.45
	-3	-3.7	8.67	3.06	8.19	2.87	7.70	2.69	7.41	2.59	7.16	2.50	6.68	2.33
	0	-0.7	8.67	2.81	8.19	2.64	7.70	2.47	7.41	2.39	7.16	2.31	6.68	2.15
	3	2.2	8.67	2.59	8.19	2.43	7.70	2.28	7.41	2.21	7.16	2.13	6.68	1.99
	5	4.1	8.67	2.46	8.19	2.31	7.70	2.17	7.41	2.10	7.16	2.03	6.68	1.89
	7	6	8.67	2.33	8.19	2.19	7.70	2.06	7.41	1.99	7.16	1.93	6.68	1.81
	9	7.9	8.67	2.21	8.19	2.09	7.70	1.96	7.41	1.90	7.16	1.84	6.68	1.72
11	9.8	8.67	2.10	8.19	1.98	7.70	1.87	7.41	1.81	7.16	1.75	6.68	1.64	
13	11.8	8.67	2.00	8.19	1.89	7.70	1.78	7.41	1.73	7.16	1.67	6.68	1.57	
15	13.7	8.67	1.90	8.19	1.80	7.70	1.70	7.41	1.65	7.16	1.59	6.68	1.50	

Note:

- 1, is shown as reference
- 2, In heating mode, avoid the outdoor air temperature range from -15 to -20 degree C, when selecting the models
- 3, The above table shows the average value of conditions may operate
- 4, It is recommended to connect less than 130%

38VR006H109010

Cooling

Combi nation (%) (Capa city)	Outdo or Air tempe rature (°C)	Indoor temperature(°C WB)													
		14.00		16.00		18.00		19.00		20.00		22.00		24.00	
		TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW	TC kW	PI kW
130%	10	13.62	2.58	16.22	3.16	18.82	3.75	19.54	3.83	19.76	3.76	20.26	3.60	20.76	3.43
	12	13.62	2.63	16.22	3.22	18.82	3.83	19.26	3.81	19.54	3.74	19.98	3.57	20.48	3.52
	14	13.62	2.68	16.22	3.28	18.77	3.87	19.04	3.83	19.26	3.71	19.76	3.68	20.26	3.72
	16	13.62	2.72	16.22	3.34	18.54	3.86	18.77	3.80	18.99	3.84	19.49	3.88	19.98	3.92
	18	13.62	2.78	16.22	3.41	18.27	4.00	18.49	4.02	18.77	4.05	19.26	4.08	19.76	4.12
	20	13.62	2.84	16.22	3.63	17.99	4.20	18.27	4.22	18.49	4.24	18.99	4.28	19.49	4.32
	21	13.62	2.91	16.22	3.76	17.88	4.29	18.16	4.32	18.38	4.34	18.88	4.39	19.37	4.42
	23	13.62	3.12	16.22	4.03	17.66	4.49	17.88	4.51	18.10	4.54	18.60	4.58	19.10	4.63
	25	13.62	3.34	16.22	4.32	17.38	4.69	17.60	4.71	17.88	4.74	18.38	4.79	18.88	4.83
	27	13.62	3.56	16.22	4.62	17.16	4.88	17.38	4.91	17.60	4.94	18.10	4.99	18.60	5.04
	29	13.62	3.80	16.22	4.94	16.88	5.08	17.10	5.11	17.38	5.14	17.88	5.19	18.38	5.25
	31	13.62	4.06	16.16	5.22	16.61	5.28	16.88	5.31	17.10	5.34	17.60	5.40	18.10	5.46
	33	13.62	4.32	15.89	5.42	16.39	5.48	16.61	5.51	16.88	5.54	17.38	5.60	17.82	5.66
	35	13.62	4.61	15.61	5.62	16.11	5.68	16.39	5.71	16.61	5.74	17.10	5.81	17.60	5.87
	37	13.62	4.91	15.39	5.82	15.89	5.89	16.11	5.92	16.39	5.96	16.83	6.02	17.33	6.09
	39	13.62	5.22	15.11	5.88	15.61	6.08	15.89	6.12	16.11	6.16	16.61	6.23	17.10	6.30
42	13.62	5.50	14.96	5.94	15.45	6.14	15.72	6.18	15.94	6.22	16.44	6.24	16.45	6.36	
44	13.62	5.78	14.80	5.99	15.28	6.17	15.56	6.24	15.62	6.23	15.84	6.26	16.06	6.39	
46	13.62	6.06	14.74	6.05	15.12	6.25	15.40	6.26	15.49	6.27	15.57	6.29	15.81	6.60	
120%	10	12.57	2.35	14.95	2.88	17.38	3.42	18.60	3.70	19.49	3.86	19.93	3.71	20.37	3.56
	12	12.57	2.40	14.95	2.93	17.38	3.49	18.60	3.77	19.21	3.83	19.65	3.69	20.09	3.54
	14	12.57	2.45	14.95	2.99	17.38	3.55	18.60	3.84	18.93	3.81	19.43	3.67	19.87	3.69
	16	12.57	2.49	14.95	3.05	17.38	3.62	18.49	3.87	18.71	3.82	19.15	3.86	19.60	3.89
	18	12.57	2.54	14.95	3.11	17.38	3.74	18.21	4.00	18.43	4.01	18.88	4.05	19.37	4.09
	20	12.57	2.59	14.95	3.23	17.38	4.03	17.99	4.20	18.21	4.21	18.66	4.25	19.10	4.29
	21	12.57	2.61	14.95	3.34	17.38	4.17	17.82	4.29	18.05	4.31	18.54	4.35	18.99	4.39
	23	12.57	2.79	14.95	3.58	17.38	4.47	17.60	4.48	17.82	4.51	18.27	4.55	18.71	4.59
	25	12.57	2.98	14.95	3.83	17.10	4.66	17.33	4.68	17.55	4.70	18.05	4.75	18.49	4.79
	27	12.57	3.19	14.95	4.10	16.88	4.85	17.10	4.88	17.33	4.91	17.77	4.95	18.21	5.00
	29	12.57	3.40	14.95	4.38	16.61	5.05	16.83	5.08	17.05	5.10	17.49	5.15	17.99	5.20
	31	12.57	3.62	14.95	4.67	16.33	5.25	16.61	5.28	16.83	5.31	17.27	5.36	17.71	5.41
	33	12.57	3.86	14.95	4.98	16.11	5.45	16.33	5.48	16.55	5.50	16.99	5.56	17.44	5.62
	35	12.57	4.11	14.95	5.31	15.83	5.64	16.05	5.68	16.33	5.71	16.77	5.77	17.22	5.83
	37	12.57	4.37	14.95	5.66	15.61	5.85	15.83	5.88	16.05	5.91	16.50	5.97	16.94	6.04
	39	12.57	4.65	14.89	5.98	15.33	6.05	15.56	6.08	15.78	6.11	16.27	6.18	16.72	6.24
42	12.57	4.82	14.73	6.03	15.17	6.10	15.40	6.14	15.62	6.17	16.11	6.20	16.08	6.30	
44	12.57	4.88	14.65	6.09	15.01	6.15	15.23	6.16	15.46	6.19	15.63	6.23	15.89	6.53	
46	12.57	4.93	14.57	6.15	14.88	6.22	15.07	6.26	15.34	6.27	15.47	6.24	15.75	6.68	
110%	10	11.51	2.14	13.73	2.60	15.94	3.09	17.05	3.34	18.16	3.60	19.54	3.82	19.99	3.69
	12	11.51	2.18	13.73	2.66	15.94	3.16	17.05	3.41	18.16	3.67	19.32	3.80	19.71	3.67
	14	11.51	2.22	13.73	2.70	15.94	3.22	17.05	3.47	18.16	3.74	19.04	3.78	19.49	3.66
	16	11.51	2.26	13.73	2.75	15.94	3.28	17.05	3.54	18.16	3.81	18.82	3.83	19.21	3.86
	18	11.51	2.30	13.73	2.81	15.94	3.34	17.05	3.64	18.16	3.99	18.54	4.02	18.99	4.06
	20	11.51	2.35	13.73	2.87	15.94	3.54	17.05	3.91	17.88	4.19	18.32	4.22	18.71	4.26
	21	11.51	2.37	13.73	2.95	15.94	3.67	17.05	4.05	17.77	4.29	18.16	4.32	18.60	4.35
	23	11.51	2.48	13.73	3.16	15.94	3.93	17.05	4.35	17.49	4.48	17.94	4.52	18.32	4.56
	25	11.51	2.65	13.73	3.38	15.94	4.20	17.05	4.66	17.27	4.67	17.66	4.72	18.10	4.76
	27	11.51	2.82	13.73	3.62	15.94	4.50	16.77	4.85	17.00	4.87	17.44	4.91	17.83	4.96
	29	11.51	3.01	13.73	3.86	15.94	4.81	16.55	5.05	16.77	5.07	17.16	5.12	17.60	5.16
	31	11.51	3.21	13.73	4.11	15.94	5.13	16.28	5.25	16.50	5.27	16.94	5.31	17.33	5.37
	33	11.51	3.41	13.73	4.39	15.83	5.41	16.05	5.44	16.28	5.46	16.66	5.52	17.11	5.57
	35	11.51	3.63	13.73	4.67	15.56	5.61	15.78	5.64	16.00	5.67	16.39	5.72	16.83	5.77
	37	11.51	3.86	13.73	4.97	15.33	5.81	15.56	5.83	15.72	5.86	16.17	5.93	16.55	5.98
	39	11.51	4.11	13.73	5.30	15.06	6.01	15.28	6.04	15.50	6.07	15.89	6.13	16.33	6.19
42	11.51	4.16	13.73	5.36	14.90	6.06	15.12	6.09	15.34	6.12	15.62	6.18	15.68	6.25	
44	11.51	4.22	13.73	5.41	14.74	6.12	14.96	6.15	15.19	6.18	15.47	6.20	15.52	6.47	
46	11.51	4.33	13.73	5.47	14.60	6.18	14.81	6.24	15.07	6.24	15.30	6.52	15.38	6.54	
100%	10	10.46	1.93	12.46	2.34	14.50	2.77	15.50	3.00	16.50	3.22	18.54	3.68	19.60	3.81
	12	10.46	1.96	12.46	2.39	14.50	2.82	15.50	3.05	16.50	3.28	18.54	3.75	19.32	3.79

	14	10.46	2.00	12.46	2.43	14.50	2.88	15.50	3.11	16.50	3.34	18.54	3.83	19.10	3.77
	16	10.46	2.04	12.46	2.48	14.50	2.94	15.50	3.17	16.50	3.41	18.43	3.87	18.82	3.83
	18	10.46	2.08	12.46	2.52	14.50	2.99	15.50	3.23	16.50	3.48	18.21	4.00	18.60	4.03
	20	10.46	2.11	12.46	2.57	14.50	3.08	15.50	3.40	16.50	3.73	17.94	4.19	18.32	4.23
	21	10.46	2.14	12.46	2.60	14.50	3.19	15.50	3.52	16.50	3.86	17.83	4.29	18.21	4.32
	23	10.46	2.19	12.46	2.77	14.50	3.42	15.50	3.77	16.50	4.14	17.60	4.48	17.94	4.52
	25	10.46	2.33	12.46	2.96	14.50	3.66	15.50	4.04	16.50	4.43	17.33	4.68	17.71	4.72
	27	10.46	2.49	12.46	3.15	14.50	3.91	15.50	4.32	16.50	4.74	17.05	4.88	17.44	4.92
	29	10.46	2.65	12.46	3.37	14.50	4.17	15.50	4.61	16.44	5.03	16.83	5.08	17.22	5.12
	31	10.46	2.82	12.46	3.59	14.50	4.45	15.50	4.92	16.22	5.23	16.55	5.28	16.94	5.32
	33	10.46	3.00	12.46	3.83	14.50	4.75	15.50	5.25	15.94	5.43	16.33	5.47	16.72	5.52
	35	10.46	3.18	12.46	4.07	14.50	5.06	15.50	5.60	15.67	5.62	16.05	5.68	16.44	5.72
	37	10.46	3.39	12.46	4.33	14.50	5.40	15.22	5.80	15.44	5.83	15.83	5.88	16.16	5.92
	39	10.46	3.60	12.46	4.60	14.50	5.74	15.00	5.99	15.17	6.02	15.56	6.08	15.94	6.14
	42	10.46	3.82	12.46	4.83	14.50	6.02	14.69	6.05	15.01	6.15	15.20	6.22	15.63	6.30
	44	10.46	4.05	12.46	5.05	14.50	6.10	14.38	6.16	14.87	6.20	15.56	6.30	15.23	6.36
46	10.46	4.27	12.46	5.28	14.50	6.23	14.07	6.22	14.86	6.37	14.94	6.41	15.01	6.47	
90%	10	9.41	1.73	11.24	2.08	13.06	2.46	13.95	2.66	14.84	2.85	16.66	3.26	18.49	3.68
	12	9.41	1.76	11.24	2.12	13.06	2.51	13.95	2.70	14.84	2.91	16.66	3.32	18.49	3.74
	14	9.41	1.79	11.24	2.16	13.06	2.55	13.95	2.75	14.84	2.96	16.66	3.38	18.49	3.81
	16	9.41	1.82	11.24	2.20	13.06	2.60	13.95	2.81	14.84	3.02	16.66	3.45	18.43	3.88
	18	9.41	1.85	11.24	2.24	13.06	2.65	13.95	2.86	14.84	3.08	16.66	3.52	18.21	4.00
	20	9.41	1.89	11.24	2.29	13.06	2.70	13.95	2.92	14.84	3.19	16.66	3.78	17.94	4.19
	21	9.41	1.90	11.24	2.31	13.06	2.75	13.95	3.02	14.84	3.31	16.66	3.92	17.83	4.29
	23	9.41	1.94	11.24	2.40	13.06	2.94	13.95	3.24	14.84	3.55	16.66	4.20	17.55	4.48
	25	9.41	2.04	11.24	2.57	13.06	3.15	13.95	3.46	14.84	3.79	16.66	4.50	17.33	4.68
	27	9.41	2.17	11.24	2.73	13.06	3.36	13.95	3.70	14.84	4.05	16.66	4.81	17.05	4.88
	29	9.41	2.32	11.24	2.91	13.06	3.58	13.95	3.95	14.84	4.33	16.50	5.03	16.83	5.07
	31	9.41	2.46	11.24	3.10	13.06	3.82	13.95	4.21	14.84	4.62	16.22	5.23	16.55	5.28
	33	9.41	2.61	11.24	3.30	13.06	4.08	13.95	4.49	14.84	4.93	16.00	5.43	16.33	5.47
	35	9.41	2.78	11.24	3.51	13.06	4.34	13.95	4.78	14.84	5.25	15.72	5.63	16.05	5.68
	37	9.41	2.94	11.24	3.73	13.06	4.62	13.95	5.09	14.84	5.60	15.44	5.83	15.83	5.87
	39	9.41	3.12	11.24	3.97	13.06	4.91	13.95	5.43	14.84	5.96	15.22	6.03	15.56	6.08
42	9.41	3.27	11.24	4.21	13.06	5.15	13.95	5.62	14.84	6.01	15.08	6.23	15.42	6.27	
44	9.41	3.51	11.24	4.45	13.06	5.39	13.95	5.81	14.84	6.24	15.00	6.29	15.22	6.36	
46	9.41	3.70	11.24	4.64	13.06	5.58	13.95	6.00	14.84	6.35	14.91	6.37	14.95	6.44	
80%	10	8.36	1.53	9.96	1.83	11.57	2.16	12.40	2.32	13.23	2.49	14.84	2.85	16.44	3.21
	12	8.36	1.55	9.96	1.86	11.57	2.20	12.40	2.37	13.23	2.54	14.84	2.90	16.44	3.27
	14	8.36	1.59	9.96	1.90	11.57	2.23	12.40	2.41	13.23	2.59	14.84	2.95	16.44	3.33
	16	8.36	1.61	9.96	1.93	11.57	2.28	12.40	2.45	13.23	2.63	14.84	3.01	16.44	3.39
	18	8.36	1.64	9.96	1.97	11.57	2.32	12.40	2.51	13.23	2.69	14.84	3.07	16.44	3.46
	20	8.36	1.67	9.96	2.01	11.57	2.37	12.40	2.55	13.23	2.74	14.84	3.19	16.44	3.70
	21	8.36	1.68	9.96	2.02	11.57	2.39	12.40	2.58	13.23	2.80	14.84	3.30	16.44	3.83
	23	8.36	1.71	9.96	2.07	11.57	2.51	12.40	2.75	13.23	3.00	14.84	3.53	16.44	4.11
	25	8.36	1.77	9.96	2.20	11.57	2.68	12.40	2.94	13.23	3.20	14.84	3.78	16.44	4.40
	27	8.36	1.88	9.96	2.34	11.57	2.85	12.40	3.13	13.23	3.42	14.84	4.04	16.44	4.71
	29	8.36	2.00	9.96	2.49	11.57	3.04	12.40	3.34	13.23	3.65	14.84	4.31	16.44	5.03
	31	8.36	2.12	9.96	2.65	11.57	3.24	12.40	3.55	13.23	3.89	14.84	4.60	16.16	5.23
	33	8.36	2.26	9.96	2.82	11.57	3.45	12.40	3.79	13.23	4.14	14.84	4.91	15.94	5.43
	35	8.36	2.39	9.96	3.00	11.57	3.67	12.40	4.03	13.23	4.42	14.84	5.23	15.67	5.62
	37	8.36	2.54	9.96	3.18	11.57	3.90	12.40	4.29	13.23	4.70	14.84	5.58	15.44	5.82
	39	8.36	2.69	9.96	3.39	11.57	4.15	12.40	4.57	13.23	5.00	14.84	5.94	15.17	6.02
42	8.36	2.77	9.96	3.43	11.57	4.23	12.40	4.73	13.23	5.12	14.84	6.14	15.04	6.16	
44	8.36	2.89	9.96	3.47	11.57	4.31	12.40	4.81	13.23	5.21	14.84	6.18	14.92	6.22	
46	8.36	2.93	9.96	3.51	11.57	4.40	12.40	4.93	13.23	5.30	14.84	6.28	14.80	6.37	
70%	10	7.31	1.35	8.75	1.60	10.13	1.86	10.85	2.01	11.57	2.15	12.95	2.45	14.39	2.75
	12	7.31	1.37	8.75	1.62	10.13	1.90	10.85	2.05	11.57	2.19	12.95	2.49	14.39	2.80
	14	7.31	1.39	8.75	1.65	10.13	1.93	10.85	2.08	11.57	2.23	12.95	2.54	14.39	2.85
	16	7.31	1.41	8.75	1.68	10.13	1.97	10.85	2.12	11.57	2.27	12.95	2.58	14.39	2.91
	18	7.31	1.43	8.75	1.71	10.13	2.01	10.85	2.16	11.57	2.31	12.95	2.63	14.39	2.97
	20	7.31	1.46	8.75	1.74	10.13	2.05	10.85	2.20	11.57	2.35	12.95	2.69	14.39	3.05
	21	7.31	1.47	8.75	1.76	10.13	2.06	10.85	2.22	11.57	2.38	12.95	2.72	14.39	3.15
	23	7.31	1.49	8.75	1.79	10.13	2.11	10.85	2.29	11.57	2.50	12.95	2.92	14.39	3.38
25	7.31	1.52	8.75	1.86	10.13	2.24	10.85	2.45	11.57	2.66	12.95	3.12	14.39	3.62	
27	7.31	1.62	8.75	1.98	10.13	2.39	10.85	2.61	11.57	2.85	12.95	3.34	14.39	3.86	

60%	29	7.31	1.71	8.75	2.11	10.13	2.54	10.85	2.79	11.57	3.03	12.95	3.55	14.39	4.13
	31	7.31	1.81	8.75	2.23	10.13	2.71	10.85	2.96	11.57	3.22	12.95	3.79	14.39	4.40
	33	7.31	1.92	8.75	2.38	10.13	2.88	10.85	3.15	11.57	3.43	12.95	4.04	14.39	4.69
	35	7.31	2.04	8.75	2.52	10.13	3.06	10.85	3.35	11.57	3.65	12.95	4.30	14.39	5.00
	37	7.31	2.15	8.75	2.67	10.13	3.25	10.85	3.55	11.57	3.89	12.95	4.58	14.39	5.33
	39	7.31	2.28	8.75	2.83	10.13	3.45	10.85	3.78	11.57	4.13	12.95	4.87	14.39	5.68
	42	7.31	2.41	8.75	2.96	10.13	3.58	10.85	3.95	11.57	4.30	12.95	5.14	14.39	6.01
	44	7.31	2.57	8.75	3.13	10.13	3.70	10.85	4.12	11.57	4.46	12.95	5.37	14.39	6.21
	46	7.31	2.69	8.75	3.27	10.13	3.85	10.85	4.25	11.57	4.60	12.95	5.54	14.39	6.35
	10	6.26	1.17	7.47	1.37	8.69	1.59	9.30	1.71	9.91	1.82	11.13	2.06	12.34	2.31
	12	6.26	1.19	7.47	1.40	8.69	1.62	9.30	1.74	9.91	1.85	11.13	2.10	12.34	2.35
	14	6.26	1.21	7.47	1.42	8.69	1.65	9.30	1.77	9.91	1.89	11.13	2.14	12.34	2.39
	16	6.26	1.22	7.47	1.44	8.69	1.68	9.30	1.80	9.91	1.92	11.13	2.17	12.34	2.44
	18	6.26	1.25	7.47	1.46	8.69	1.71	9.30	1.83	9.91	1.95	11.13	2.21	12.34	2.48
	20	6.26	1.26	7.47	1.49	8.69	1.74	9.30	1.86	9.91	1.99	11.13	2.26	12.34	2.54
	21	6.26	1.28	7.47	1.50	8.69	1.75	9.30	1.88	9.91	2.01	11.13	2.28	12.34	2.56
23	6.26	1.29	7.47	1.53	8.69	1.78	9.30	1.92	9.91	2.04	11.13	2.37	12.34	2.72	
25	6.26	1.31	7.47	1.55	8.69	1.85	9.30	2.01	9.91	2.17	11.13	2.53	12.34	2.91	
27	6.26	1.37	7.47	1.65	8.69	1.97	9.30	2.14	9.91	2.32	11.13	2.69	12.34	3.10	
29	6.26	1.44	7.47	1.75	8.69	2.10	9.30	2.28	9.91	2.47	11.13	2.88	12.34	3.31	
31	6.26	1.53	7.47	1.86	8.69	2.23	9.30	2.42	9.91	2.63	11.13	3.06	12.34	3.52	
33	6.26	1.61	7.47	1.97	8.69	2.36	9.30	2.57	9.91	2.79	11.13	3.25	12.34	3.76	
35	6.26	1.71	7.47	2.09	8.69	2.51	9.30	2.73	9.91	2.97	11.13	3.46	12.34	4.00	
37	6.26	1.81	7.47	2.21	8.69	2.66	9.30	2.90	9.91	3.15	11.13	3.68	12.34	4.26	
39	6.26	1.91	7.47	2.34	8.69	2.81	9.30	3.07	9.91	3.34	11.13	3.91	12.34	4.53	
42	6.26	1.99	7.47	2.47	8.69	2.95	9.30	3.24	9.91	3.51	11.13	4.15	12.34	4.80	
44	6.26	2.07	7.47	2.61	8.69	3.09	9.30	3.34	9.91	3.67	11.13	4.38	12.34	5.07	
46	6.26	2.18	7.47	2.73	8.69	3.20	9.30	3.48	9.91	3.86	11.13	4.54	12.34	5.35	
50%	10	5.23	1.01	6.26	1.17	7.25	1.34	7.75	1.43	8.25	1.51	9.24	1.70	10.30	1.89
	12	5.23	1.02	6.26	1.18	7.25	1.36	7.75	1.44	8.25	1.54	9.24	1.73	10.30	1.92
	14	5.23	1.03	6.26	1.20	7.25	1.37	7.75	1.47	8.25	1.56	9.24	1.76	10.30	1.96
	16	5.23	1.05	6.26	1.21	7.25	1.40	7.75	1.49	8.25	1.58	9.24	1.79	10.30	1.99
	18	5.23	1.06	6.26	1.24	7.25	1.42	7.75	1.52	8.25	1.62	9.24	1.82	10.30	2.03
	20	5.23	1.08	6.26	1.25	7.25	1.44	7.75	1.54	8.25	1.65	9.24	1.85	10.30	2.07
	21	5.23	1.09	6.26	1.27	7.25	1.46	7.75	1.55	8.25	1.66	9.24	1.87	10.30	2.09
	23	5.23	1.10	6.26	1.28	7.25	1.48	7.75	1.58	8.25	1.69	9.24	1.90	10.30	2.14
	25	5.23	1.12	6.26	1.31	7.25	1.51	7.75	1.62	8.25	1.74	9.24	2.00	10.30	2.28
	27	5.23	1.14	6.26	1.36	7.25	1.59	7.75	1.72	8.25	1.85	9.24	2.13	10.30	2.43
	29	5.23	1.20	6.26	1.43	7.25	1.69	7.75	1.83	8.25	1.97	9.24	2.26	10.30	2.59
	31	5.23	1.27	6.26	1.52	7.25	1.79	7.75	1.94	8.25	2.09	9.24	2.41	10.30	2.75
	33	5.23	1.34	6.26	1.61	7.25	1.90	7.75	2.05	8.25	2.22	9.24	2.56	10.30	2.93
	35	5.23	1.42	6.26	1.70	7.25	2.01	7.75	2.17	8.25	2.35	9.24	2.72	10.30	3.11
	37	5.23	1.49	6.26	1.80	7.25	2.13	7.75	2.30	8.25	2.49	9.24	2.88	10.30	3.31
	39	5.23	1.58	6.26	1.89	7.25	2.25	7.75	2.44	8.25	2.64	9.24	3.06	10.30	3.51
42	5.23	1.66	6.26	2.00	7.25	2.36	7.75	2.59	8.25	2.79	9.24	3.27	10.30	3.73	
44	5.23	1.75	6.26	2.11	7.25	2.47	7.75	2.74	8.25	2.86	9.24	3.49	10.30	3.94	
46	5.23	1.83	6.26	2.22	7.25	2.57	7.75	2.87	8.25	2.95	9.24	3.71	10.30	4.16	

Note:

- 1, [] is shown as reference
- 2, In cooling mode, avoid the outdoor air temperature range from 42-46 degree C, when selecting the models
- 3, The above table shows the average value of conditions may operate
- 4, It is recommended to connect less than 130%

Heating

Combination (%) (Capacity index)	Outdoor Air temperature (°C DB)		Indoor temperature(°C WB)											
			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	11.01	3.81	10.95	4.08	10.90	4.36	10.90	4.49	10.85	4.62	10.85	4.89
	-18.8	-19	11.17	3.90	11.12	4.17	11.12	4.43	11.06	4.57	11.06	4.69	11.01	4.96
	-16.7	-17	11.60	4.08	11.55	4.33	11.49	4.59	11.49	4.72	11.49	4.85	11.44	5.10
	-13.7	-15	12.09	4.27	12.04	4.52	11.98	4.76	11.98	4.88	11.93	5.01	11.93	5.25
	-11.8	-13	12.58	4.46	12.58	4.70	12.52	4.93	12.47	5.05	12.47	5.17	12.41	5.40
	-9.8	-11	13.17	4.66	13.11	4.88	13.06	5.11	13.06	5.22	13.06	5.33	13.01	5.55
	-9.5	-10	13.49	4.75	13.44	4.97	13.38	5.19	13.38	5.30	13.33	5.41	13.33	5.62
	-8.5	-9.1	13.76	4.84	13.71	5.05	13.71	5.27	13.65	5.37	13.65	5.48	13.60	5.69
	-7	-7.6	14.25	4.98	14.25	5.19	14.19	5.39	14.19	5.50	14.14	5.60	14.08	5.81
	-5	-5.6	15.00	5.17	14.95	5.36	14.89	5.56	14.89	5.66	14.84	5.75	14.84	5.95
	-3	-3.7	15.71	5.34	15.65	5.53	15.65	5.71	15.60	5.81	15.60	5.90	15.54	6.08
	0	-0.7	16.95	5.60	16.95	5.77	16.89	5.94	16.89	6.00	16.84	6.12	16.84	6.28
	3	2.2	18.29	5.83	18.24	5.99	18.19	6.15	18.19	6.23	18.19	6.31	18.13	6.47
	5	4.1	19.21	5.98	19.16	6.13	19.16	6.28	19.11	6.35	19.11	6.43	19.05	6.58
	7	6	20.18	6.12	20.13	6.26	20.13	6.40	20.08	6.47	20.08	6.54	19.27	6.28
9	7.9	21.21	6.24	21.15	6.38	21.15	6.51	21.10	6.59	20.67	6.45	19.27	5.90	
11	9.8	22.29	6.37	22.24	6.49	22.13	6.58	21.37	6.32	20.67	6.06	19.27	5.56	
13	11.8	23.48	6.49	23.42	6.61	22.13	6.16	21.37	5.92	20.67	5.69	19.27	5.22	
15	13.7	24.61	6.60	23.53	6.26	22.13	5.81	21.37	5.58	20.67	5.36	19.27	4.92	
120%	-19.8	-20	10.96	4.18	10.90	4.43	10.85	4.68	10.85	4.80	10.85	4.92	10.79	5.18
	-18.8	-19	11.12	4.26	11.06	4.50	11.06	4.75	11.01	4.87	11.01	4.99	10.96	5.24
	-16.7	-17	11.55	4.43	11.50	4.66	11.42	4.89	11.44	5.01	11.44	5.13	11.39	5.36
	-13.7	-15	12.04	4.60	11.98	4.83	11.93	5.05	11.93	5.17	11.93	5.28	11.87	5.51
	-11.8	-13	12.52	4.78	12.52	4.99	12.47	5.21	12.47	5.32	12.41	5.43	12.41	5.65
	-9.8	-11	13.11	4.96	13.06	5.16	13.06	5.37	13.01	5.48	13.01	5.58	12.95	5.79
	-9.5	-10	13.44	5.05	13.39	5.25	13.33	5.45	13.33	5.55	13.33	5.65	13.28	5.86
	-8.5	-9.1	13.71	5.13	13.65	5.32	13.65	5.52	13.60	5.62	13.60	5.72	13.55	5.92
	-7	-7.6	14.19	5.26	14.19	5.45	14.14	5.64	14.14	5.74	14.09	5.83	14.09	6.02
	-5	-5.6	14.95	5.43	14.90	5.61	14.84	5.79	14.84	5.88	14.84	5.98	14.79	6.15
	-3	-3.7	15.65	5.59	15.65	5.76	15.60	5.93	15.60	6.02	15.54	6.11	15.54	6.28
	0	-0.7	16.89	5.83	16.89	5.99	16.84	6.14	16.84	6.23	16.78	6.30	16.78	6.47
	3	2.2	18.24	6.05	18.19	6.19	18.19	6.34	18.13	6.42	18.13	6.49	17.76	6.45
	5	4.1	19.16	6.18	19.11	6.32	19.11	6.46	19.05	6.53	19.05	6.60	17.76	6.06
	7	6	20.13	6.30	20.13	6.44	20.08	6.57	19.75	6.48	19.11	6.21	17.76	5.70
9	7.9	21.16	6.43	21.10	6.56	20.40	6.34	19.75	6.09	19.11	5.84	17.76	5.36	
11	9.8	22.24	6.54	21.70	6.43	20.40	5.96	19.75	5.73	19.11	5.50	17.76	5.06	
13	11.8	23.04	6.48	21.70	6.03	20.40	5.59	19.75	5.38	19.11	5.17	17.76	4.75	
15	13.7	23.04	6.10	21.70	5.68	20.40	5.27	19.75	5.07	19.11	4.87	17.76	4.49	
110%	-19.8	-20	10.90	4.54	10.85	4.77	10.79	5.00	10.79	5.11	10.80	5.22	10.74	5.46
	-18.8	-19	11.06	4.61	11.01	4.84	11.01	5.06	11.01	5.18	10.96	5.29	10.96	5.51
	-16.7	-17	11.49	4.77	11.44	4.99	11.60	5.20	11.39	5.31	11.39	5.42	11.33	5.63
	-13.7	-15	11.98	4.93	11.93	5.14	11.87	5.34	11.87	5.45	11.87	5.55	11.82	5.76
	-11.8	-13	12.47	5.10	12.47	5.29	12.41	5.49	12.41	5.59	12.36	5.69	12.36	5.89
	-9.8	-11	13.06	5.26	13.01	5.45	13.01	5.64	12.95	5.74	12.95	5.83	12.95	6.02
	-9.5	-10	13.38	5.34	13.33	5.53	13.28	5.72	13.28	5.81	13.28	5.90	13.22	6.08
	-8.5	-9.1	13.65	5.41	13.60	5.60	13.60	5.78	13.55	5.87	13.55	5.96	13.55	5.44
	-7	-7.6	14.14	5.54	14.14	5.71	14.09	5.88	14.09	5.98	14.09	6.06	14.03	6.23
	-5	-5.6	14.90	5.69	14.84	5.86	14.79	6.02	14.79	6.11	14.79	6.19	14.73	6.36
	-3	-3.7	15.60	5.84	15.60	6.00	15.54	6.16	15.54	6.23	15.49	6.31	15.49	6.47
	0	-0.7	16.84	6.06	16.84	6.21	16.79	6.35	16.79	6.42	16.79	6.50	16.30	6.37
	3	2.2	18.19	6.26	18.13	6.40	18.13	6.53	18.08	6.59	17.49	6.33	16.30	5.80
	5	4.1	19.11	6.38	19.11	6.52	18.73	6.45	18.08	6.19	17.49	5.95	16.30	5.46
	7	6	20.08	6.50	19.91	6.54	18.73	6.06	18.08	5.82	17.49	5.59	16.30	5.13
9	7.9	21.10	6.61	19.91	6.15	18.73	5.70	18.08	5.48	17.49	5.26	16.30	4.84	
11	9.8	21.10	6.21	19.91	5.79	18.73	5.36	18.08	5.16	17.49	4.96	16.30	4.57	
13	11.8	21.10	5.83	19.91	5.43	18.73	5.04	18.08	4.85	17.49	4.66	16.30	4.30	
15	13.7	21.10	5.18	19.91	5.12	18.73	4.76	18.08	4.58	17.49	4.41	16.30	4.07	
100%	-19.8	-20	10.85	4.91	10.79	5.11	10.79	5.32	10.74	5.43	10.74	5.53	10.69	5.74
	-18.8	-19	11.01	4.97	11.01	5.18	10.95	5.38	10.95	5.48	10.90	5.59	10.90	5.79
	-16.7	-17	11.44	5.11	11.39	5.31	11.39	5.51	11.33	5.60	11.33	5.70	11.33	5.90

	-13.7	-15	11.93	5.26	11.87	5.45	11.82	5.64	11.82	5.74	11.82	5.83	11.77	6.02
	-11.8	-13	12.41	5.41	12.41	5.59	12.36	5.77	12.36	5.86	12.36	5.95	12.30	6.14
	-9.8	-11	13.01	5.56	12.95	5.74	12.95	5.90	12.95	6.00	12.90	6.08	12.90	6.25
	-9.5	-10	13.33	5.64	13.28	5.81	13.28	5.98	13.22	6.06	13.22	6.14	13.17	6.31
	-8.5	-9.1	13.60	5.70	13.55	5.87	13.55	6.03	13.55	6.12	13.49	6.20	13.49	6.36
	-7	-7.6	14.09	5.81	14.09	5.98	14.03	6.13	14.03	6.21	14.03	6.29	13.98	6.45
	-5	-5.6	14.84	5.96	14.79	6.11	14.79	6.26	14.73	6.33	14.73	6.41	14.68	6.56
	-3	-3.7	15.54	6.09	15.54	6.23	15.49	6.38	15.49	6.45	15.49	6.52	14.84	6.25
	0	-0.7	16.78	6.29	16.78	6.42	16.73	6.56	16.46	6.45	15.92	6.19	14.84	5.67
	3	2.2	18.13	6.47	18.08	6.59	17.00	6.10	16.46	5.86	15.92	5.63	14.84	5.17
	5	4.1	19.05	6.59	18.08	6.19	17.00	5.74	16.46	5.52	15.92	5.30	14.84	4.87
	7	6	19.16	6.26	18.08	5.82	17.00	5.40	16.46	5.20	15.92	4.99	14.84	4.59
	9	7.9	19.16	5.88	18.08	5.48	17.00	5.08	16.46	4.83	15.92	4.71	14.84	4.33
	11	9.8	19.16	5.53	18.08	5.16	17.00	4.80	16.46	4.61	15.92	4.44	14.84	4.10
	13	11.8	19.16	5.20	18.08	4.85	17.00	4.52	16.46	4.35	15.92	4.19	14.84	3.86
15	13.7	19.16	4.90	18.08	4.58	17.00	4.26	16.46	4.11	15.92	3.96	14.84	3.66	
90%	-19.8	-20	10.77	5.27	10.72	5.46	10.72	5.65	10.67	5.74	10.67	5.83	10.67	6.02
	-18.8	-19	10.94	5.33	10.94	5.52	10.88	5.70	10.88	5.79	10.88	5.88	10.83	6.07
	-16.7	-17	11.37	5.46	11.31	5.64	11.31	5.81	11.31	5.90	11.26	5.99	11.26	6.16
	-13.7	-15	11.85	5.60	11.80	5.76	11.80	5.93	11.74	6.02	11.74	6.10	11.74	6.27
	-11.8	-13	12.34	5.73	12.34	5.89	12.28	6.05	12.28	6.14	12.28	6.21	12.23	6.37
	-9.8	-11	12.93	5.86	12.93	6.02	12.87	6.17	12.87	6.25	12.87	6.33	12.82	6.49
	-9.5	-10	13.25	5.93	13.20	6.09	13.20	6.23	13.15	6.31	13.15	6.39	13.15	6.54
	-8.5	-9.1	13.52	6.00	13.52	6.14	13.47	6.29	13.47	6.36	13.47	6.44	13.31	6.50
	-7	-7.6	14.01	6.09	14.01	6.23	13.95	6.38	13.95	6.45	13.95	6.52	13.31	6.21
	-5	-5.6	14.76	6.23	14.71	6.36	14.71	6.49	14.65	6.56	14.28	6.36	13.31	5.83
	-3	-3.7	15.46	6.35	15.46	6.47	15.30	6.50	14.76	6.24	14.28	5.99	13.31	5.50
	0	-0.7	16.76	6.53	16.27	6.37	15.30	5.90	14.76	5.67	14.28	5.44	13.31	5.00
	3	2.2	17.24	6.22	16.27	5.79	15.30	5.37	14.76	5.17	14.28	4.97	13.31	4.57
	5	4.1	17.24	5.85	16.27	5.45	15.30	5.06	14.76	4.87	14.28	4.68	13.31	4.31
	7	6	17.24	5.50	16.27	5.13	15.30	4.77	14.76	4.59	14.28	4.42	13.31	4.07
9	7.9	17.24	5.18	16.27	4.83	15.30	4.50	14.76	4.33	14.28	4.17	13.31	3.85	
11	9.8	17.24	4.88	16.27	4.56	15.30	4.25	14.76	4.10	14.28	3.94	13.31	3.65	
13	11.8	17.24	4.59	16.27	4.30	15.30	4.00	14.76	3.86	14.28	3.72	13.31	3.44	
15	13.7	17.24	4.34	16.27	4.06	15.30	3.79	14.76	3.66	14.28	3.53	13.31	3.27	
80%	-19.8	-20	10.74	5.64	10.69	5.80	10.69	5.97	10.69	6.05	10.63	6.14	10.63	6.30
	-18.8	-19	10.90	5.69	10.90	5.86	10.85	6.02	10.85	6.10	10.85	6.18	10.79	6.35
	-16.7	-17	11.33	5.81	11.28	5.96	11.28	6.12	11.28	6.20	11.28	6.28	11.23	6.43
	-13.7	-15	11.82	5.93	11.77	6.07	11.77	6.23	11.77	6.30	11.71	6.37	11.71	6.53
	-11.8	-13	12.31	6.05	12.31	6.19	12.25	6.33	12.25	6.40	12.25	6.48	11.87	6.30
	-9.8	-11	12.90	6.16	12.90	6.30	12.84	6.44	12.84	6.51	12.74	6.49	11.87	5.95
	-9.5	-10	13.22	6.23	13.17	6.36	13.17	6.49	13.17	6.56	12.74	6.30	11.87	5.78
	-8.5	-9.1	13.49	6.28	12.54	6.42	13.44	6.54	13.17	6.40	12.74	6.14	11.87	5.62
	-7	-7.6	13.98	6.37	13.98	6.50	13.60	6.36	13.17	6.11	12.74	5.86	11.87	5.38
	-5	-5.6	14.73	6.49	14.46	6.45	13.60	5.97	13.17	5.74	12.74	5.51	11.87	5.06
	-3	-3.7	15.33	6.52	14.46	6.07	13.60	5.62	13.17	5.41	12.74	5.20	11.87	4.78
	0	-0.7	15.33	5.92	14.46	5.51	13.60	5.12	13.17	4.93	12.74	4.73	11.87	4.36
	3	2.2	15.33	5.39	14.46	5.03	13.60	4.68	13.17	4.50	12.74	4.33	11.87	4.00
	5	4.1	15.33	5.08	14.46	4.74	13.60	4.41	13.17	4.25	12.74	4.10	11.87	3.78
	7	6	15.33	4.78	14.46	4.47	13.60	4.17	13.17	4.02	12.74	3.87	11.87	3.58
9	7.9	15.33	4.52	14.46	4.22	13.60	3.93	13.17	3.79	12.74	3.66	11.87	3.39	
11	9.8	15.33	4.26	14.46	3.99	13.60	3.72	13.17	3.59	12.74	3.46	11.87	3.21	
13	11.8	15.33	4.02	14.46	3.77	13.60	3.52	13.17	3.39	12.74	3.27	11.87	3.04	
15	13.7	15.33	3.80	14.46	3.57	13.60	3.34	13.17	3.22	12.74	3.11	11.87	2.89	
70%	-19.8	-20	10.66	6.00	10.61	6.14	10.61	6.29	10.61	6.36	10.61	6.44	10.34	6.37
	-18.8	-19	10.82	6.05	10.82	6.19	10.77	6.33	10.77	6.40	10.77	6.48	10.34	6.23
	-16.7	-17	11.25	6.15	11.25	6.29	11.20	6.42	11.20	6.49	11.09	6.57	10.34	5.95
	-13.7	-15	11.74	6.26	11.68	6.39	11.68	6.52	11.47	6.42	11.09	6.16	10.34	5.65
	-11.8	-13	12.22	6.36	12.22	6.49	11.90	6.33	11.47	6.09	11.09	5.84	10.34	5.36
	-9.8	-11	12.82	6.47	12.65	6.46	11.90	5.98	11.47	5.75	11.09	5.52	10.34	5.07
	-9.5	-10	13.14	6.52	12.65	6.27	11.90	5.81	11.47	5.58	11.09	5.36	10.34	4.93
	-8.5	-9.1	13.41	6.56	12.65	6.10	11.90	5.65	11.47	5.43	11.09	5.22	10.34	4.80
	-7	-7.6	13.41	6.26	12.65	5.83	11.90	5.41	11.47	5.20	11.09	5.00	10.34	4.60
	-5	-5.6	13.41	5.88	12.65	5.48	11.90	5.09	11.47	4.89	11.09	5.78	10.34	4.34
-3	-3.7	13.41	5.54	12.65	5.17	11.90	4.80	11.47	4.62	11.09	4.45	10.34	4.10	

	0	-0.7	13.41	5.04	12.65	4.71	11.90	4.38	11.47	4.22	11.09	4.07	10.34	3.76
	3	2.2	13.41	4.61	12.65	4.31	11.90	4.02	11.47	3.87	11.09	3.73	10.34	3.45
	5	4.1	13.41	4.35	12.65	4.07	11.90	3.80	11.47	3.66	11.09	3.53	10.34	3.27
	7	6	13.41	4.11	12.65	3.85	11.90	3.59	11.47	3.46	11.09	3.34	10.34	3.10
	9	7.9	13.41	3.88	12.65	3.64	11.90	3.40	11.47	3.28	11.09	3.17	10.34	2.94
	11	9.8	13.41	3.67	12.65	3.44	11.90	3.23	11.47	3.11	11.09	3.01	10.34	2.79
	13	11.8	13.41	3.47	12.65	3.26	11.90	3.05	11.47	2.95	11.09	2.85	10.34	2.65
	15	13.7	13.41	3.29	12.65	3.09	11.90	2.90	11.47	2.81	11.09	2.71	10.34	2.52
60%	-19.8	-20	10.63	6.37	10.58	6.49	10.20	6.24	9.88	6.00	9.55	5.76	8.90	5.28
	-18.8	-19	10.79	6.41	10.79	6.53	10.20	6.11	9.88	5.87	9.55	5.63	8.90	5.17
	-16.7	-17	11.23	6.49	10.85	6.29	10.20	5.83	9.88	5.60	9.55	5.38	8.90	4.94
	-13.7	-15	11.50	6.42	10.85	5.97	10.20	5.54	9.88	5.33	9.55	5.12	8.90	4.71
	-11.8	-13	11.50	6.08	10.85	5.66	10.20	5.25	9.88	5.06	9.55	4.86	8.90	4.50
	-9.8	-11	11.50	5.74	10.85	5.35	10.20	4.97	9.88	4.78	9.55	4.60	8.90	4.24
	-9.5	-10	11.50	5.58	10.85	5.20	10.20	4.83	9.88	4.66	9.55	4.47	8.90	4.12
	-8.5	-9.1	11.50	5.43	10.85	5.07	10.20	4.71	9.88	4.54	9.55	4.36	8.90	4.03
	-7	-7.6	11.50	5.20	10.85	4.85	10.20	4.51	9.88	4.35	9.55	4.18	8.90	3.86
	-5	-5.6	11.50	4.89	10.85	4.57	10.20	4.26	9.88	4.10	9.55	3.95	8.90	3.65
	-3	-3.7	11.50	4.62	10.85	4.32	10.20	4.03	9.88	3.88	9.55	3.74	8.90	3.46
	0	-0.7	11.50	4.22	10.85	3.95	10.20	3.69	9.88	3.56	9.55	3.43	8.90	3.18
	3	2.2	11.50	3.87	10.85	3.63	10.20	3.39	9.88	3.27	9.55	3.16	8.90	2.93
	5	4.1	11.50	3.66	10.85	3.44	10.20	3.21	9.88	3.11	9.55	2.99	8.90	2.78
	7	6	11.50	3.46	10.85	3.25	10.20	3.04	9.88	2.95	9.55	2.85	8.90	2.64
9	7.9	11.50	3.28	10.85	3.09	10.20	2.89	9.88	2.80	9.55	2.70	8.90	2.52	
11	9.8	11.50	3.11	10.85	2.93	10.20	2.75	9.88	2.66	9.55	2.57	8.90	2.40	
13	11.8	11.50	2.95	10.85	2.78	10.20	2.61	9.88	2.52	9.55	2.44	8.90	2.28	
15	13.7	11.50	2.81	10.85	2.64	10.20	2.48	9.88	2.41	9.55	2.33	8.90	2.17	
50%	-19.8	-20	9.58	5.79	9.04	5.39	8.50	5.01	8.18	4.82	7.91	4.64	7.37	4.27
	-18.8	-19	9.58	5.67	9.04	5.28	8.50	4.91	8.18	4.72	7.91	4.54	7.37	4.19
	-16.7	-17	9.58	5.41	9.04	5.04	8.50	4.69	8.18	4.52	7.91	4.35	7.37	4.01
	-13.7	-15	9.58	5.15	9.04	4.80	8.50	4.47	8.18	4.31	7.91	4.14	7.37	3.83
	-11.8	-13	9.58	4.89	9.04	4.57	8.50	4.25	8.18	4.10	7.91	3.94	7.37	3.65
	-9.8	-11	9.58	4.63	9.04	4.33	8.50	4.03	8.18	3.88	7.91	3.74	7.37	3.46
	-9.5	-10	9.58	4.50	9.04	4.21	8.50	3.93	8.18	3.79	7.91	3.65	7.37	3.37
	-8.5	-9.1	9.58	4.39	9.04	4.11	8.50	3.83	8.18	3.70	7.91	3.56	7.37	3.30
	-7	-7.6	9.58	4.21	9.04	3.94	8.50	3.67	8.18	3.55	7.91	3.42	7.37	3.17
	-5	-5.6	9.58	3.97	9.04	3.72	8.50	3.48	8.18	3.36	7.91	3.24	7.37	3.00
	-3	-3.7	9.58	3.76	9.04	3.53	8.50	3.30	8.18	3.18	7.91	3.07	7.37	2.85
	0	-0.7	9.58	3.45	9.04	3.24	8.50	3.04	8.18	2.93	7.91	2.83	7.37	2.64
	3	2.2	9.58	3.18	9.04	2.99	8.50	2.80	8.18	2.71	7.91	2.62	7.37	2.44
	5	4.1	9.58	3.02	9.04	2.83	8.50	2.66	8.18	2.57	7.91	2.49	7.37	2.32
	7	6	9.58	2.86	9.04	2.69	8.50	2.53	8.18	2.45	7.91	2.37	7.37	2.22
9	7.9	9.58	2.71	9.04	2.56	8.50	2.41	8.18	2.34	7.91	2.26	7.37	2.11	
11	9.8	9.58	2.58	9.04	2.43	8.50	2.29	8.18	2.22	7.91	2.15	7.37	2.01	
13	11.8	9.58	2.45	9.04	2.31	8.50	2.18	8.18	2.12	7.91	2.05	7.37	1.92	
15	13.7	9.58	2.34	9.04	2.21	8.50	2.08	8.18	2.02	7.91	1.96	7.37	1.84	

Note:

- 1, [] is shown as reference
- 2, In heating mode, avoid the outdoor air temperature range from -15 to -20 degree C, when selecting the models
- 3, The above table shows the average value of conditions may operate
- 4, It is recommended to connect less than 130%

8. Electric Characteristics

Model	Outdoor Unit				Power Supply		Compressor	OFM	
	Hz	Voltage	Min.	Max.	TOCA	MFA	RLA	kW	FLA
38VR003H102010	50	220V	198V	242V	30	30A	13.5	0.2	1.6
38VR004H10201S	50	220V	198V	242V	30	30A	13.5	0.2	1.6
38VR004H102010	50	220V	198V	242V	30	30A	13.5	0.2	1.6
38VR005H102010	50	220V	198V	242V	30	30A	13.5	0.2	1.6
38VR006H102010	50	220V	198V	242V	30	30A	16.1	0.2	1.8
38VR004H109010	50	380V~415V	342V	440V	15	25A	9.3	2*0.1	2*0.9
38VR005H109010	50	380V~415V	342V	440V	15	25A	9.3	2*0.1	2*0.9
38VR006H109010	50	380V~415V	342V	440V	15	25A	9.3	0.2	2*0.9

Remark:

TOCA: Total Over-current Amps. (A)

MFA: Max. Fuse Amps. (A)

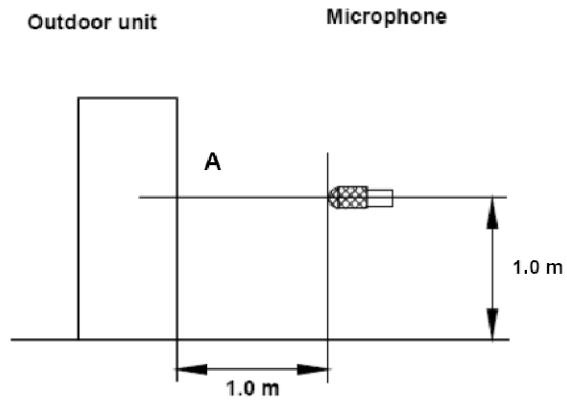
RLA: Rated Locked Amps. (A)

OFM: Outdoor Fan Motor.

FLA: Full Load Amps. (A)

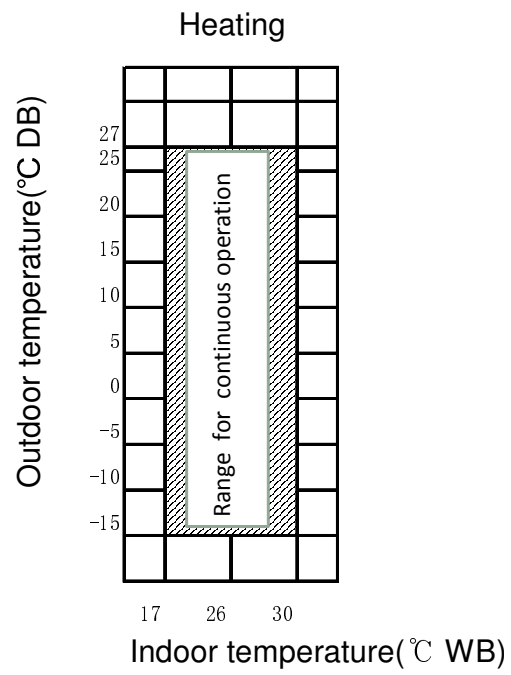
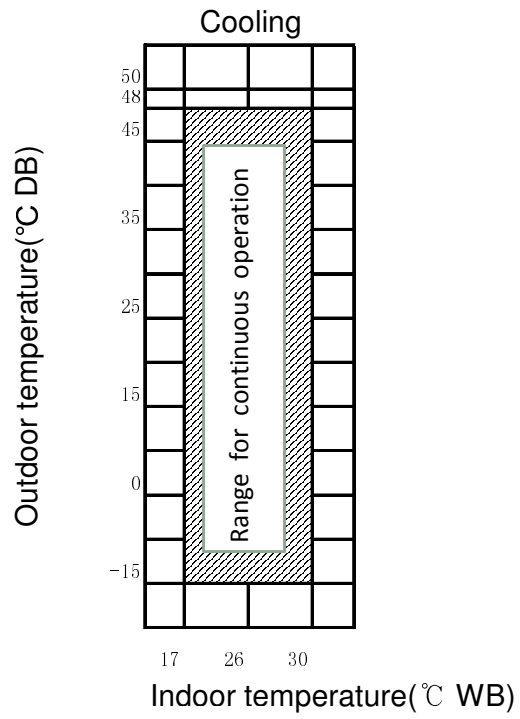
KW: Rated Motor Output (KW)

9. Sound Levels



Model	Noise level dB(A)	
	High speed	Low speed
38VR003H102010	55	52
38VR004H10201S	58	55
38VR004H102010	58	55
38VR005H102010	57	54
38VR006H102010	57	54
38VR004H109010	57	54
38VR005H109010	57	54
38VR006H109010	57	54

10. Operation Limits

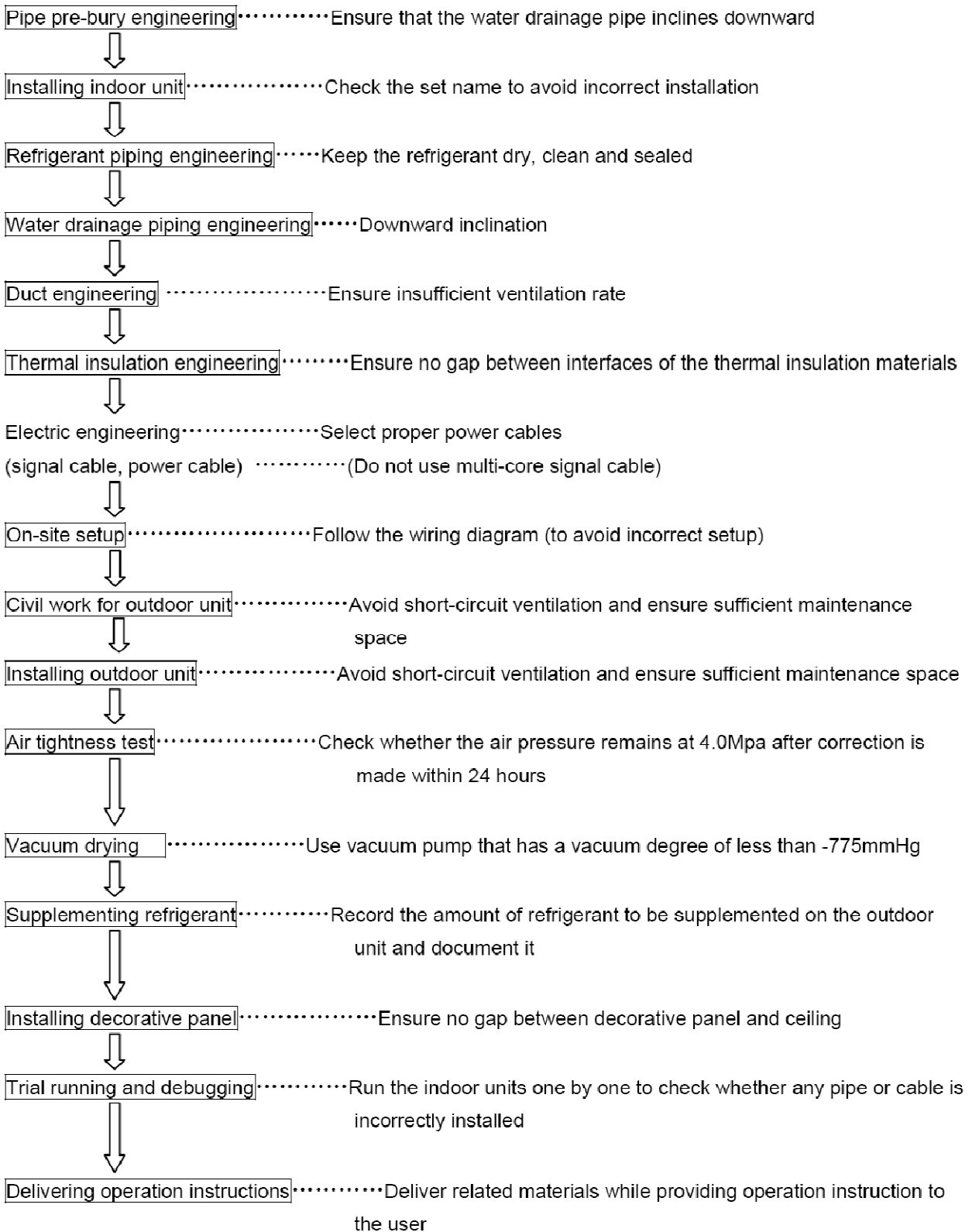


Part 3 Installation

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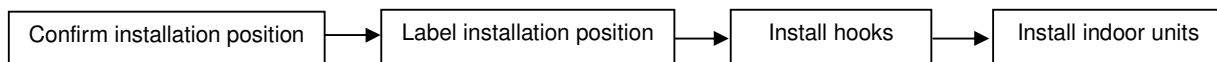
1. Summarize of Installation

1.1 Installation Procedure



1.2 Install indoor units

Procedure:

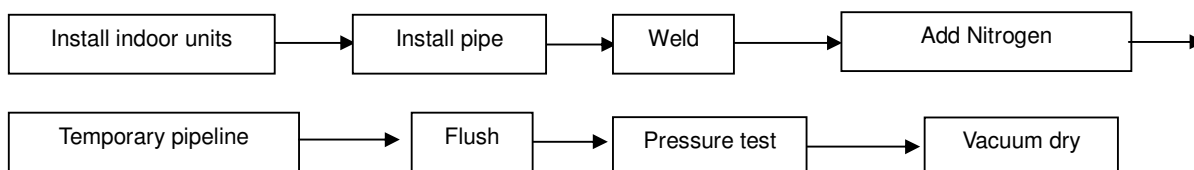


Note:

- (1) The hook must be strong enough to sustain the weight of indoor unit.
- (2) Check the models of indoor units before installation.
- (3) Pay attention to the main devices, such as the pipeline.
- (4) Hold enough places for maintenance.

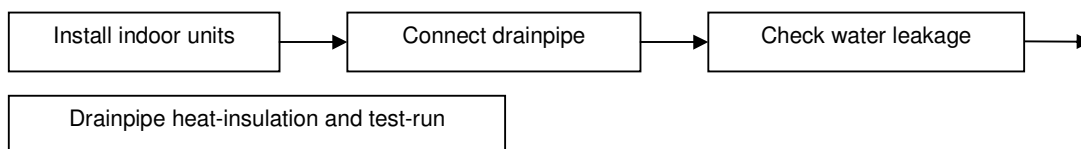
1.3 Refrigerant pipe

Procedure:



1.4 Drainage pipe

Procedure:



Note: It is no need to insulate the drainpipe if you choose the plastic pipe as drainpipe.

1.5 Electric wiring

- (1) Please select power supply for indoor unit and outdoor unit separately. Both indoor units and outdoor units should be grounded well.
- (2) The power supply should have specified branch circuit with leakage protector and manual switch.
- (3) Please put the connective wiring system between indoor unit and outdoor unit with refrigerant piping system together.
- (4) Power wiring should be done by professional electrician and complied with relevant National Electric Standard.
- (5) The power supply, leakage protector and manual of all the indoor units connecting to the same outdoor unit should be universal. (Please set all the indoor unit power supply of one system into the same circuit.)
- (6) It is suggested to use 3-core shielded wire as signal wire between indoor and outdoor units, multi-core wire is unavailable. Pay attention to the consistency. When signal wire parallel to the power wire, please keep enough distance (about 300mm at least) to prevent interference.
- (7) The power wire and signal wire can't be enlaced together.

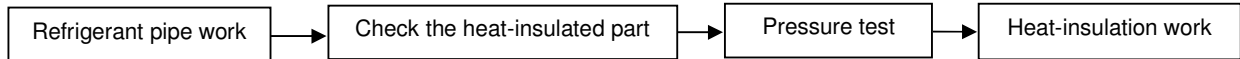
1.6 Lay the indoor pipeline

Note:

Collocate the air-outlet reasonably to prevent airflow short-circuit. Check the static pressure whether in the allowable range. The air filters should be easy to unpick and wash. Do pressure test on pipeline.

1.7 Heat-insulation

Procedure:



Note: For welding part, flare part and branch pipe, heat-insulation work must be done after finished the pressure test.

1.8 Install outdoor unit

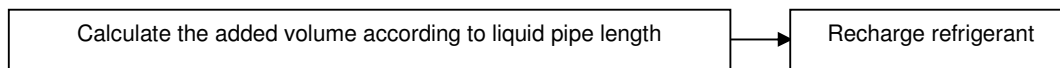
Note:

(1) Gutter must be set around the foundation to drain the condensation water.

(2) When installing outdoor units at the roof, please check the strength of the roof and pay attention not to destroy the waterproof of the roof.

1.9 Recharge refrigerant

Procedure:



Note: Please calculate the additional amount of refrigerant according to the formula that we supply to you, and the calculation result must be correct

1.10 Main points of test running and debugging

Please check the following issues before turning on the power:

(1). Vacuum dry:

Make sure the vacuum degree accord with our requirement about 10^{-5} .

(2). Wiring:

Includes the power wiring and communication wiring; Recheck the connection according to our corresponding wire diagrams. Especially, please remember our communication wire is polar; it means you must connect the communication wire correspondingly to the terminal block.

(3). Additional charge of refrigerant:

Recheck the calculation formula and recalculate the total recharge volume according to our supplied formula.

(4). Open the stop-valve of gas and liquid pipe with Allen key; Check leakage of stop-valve with soap water.

Please confirm whether the outdoor unit has been connected to the power for 12hr before start test running.

Test running:

Turn on all of the indoor units with cooling mode and set the temperature in 17degree with high fan speed first, after the system operated, test following operation parameters of the system, including indoor units and outdoor units parameters.

2. Outdoor Units Installation

2.1 Installation place

Please keep away from the following place, or malfunction of the machine may be caused:

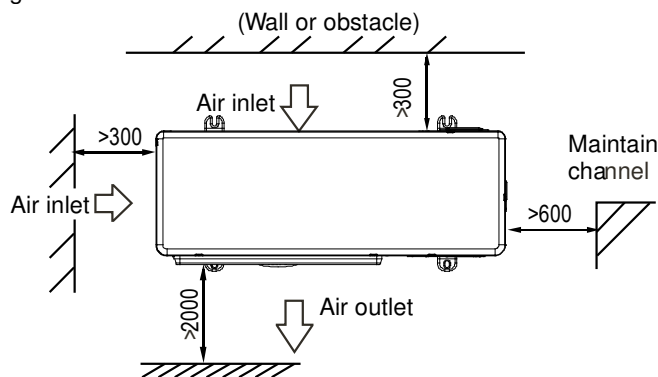
- There is combustible gas leakage.
- There is much oil (including engine oil) ingredient.
- There is salty air surrounding (near the coast)
- There is caustic gas (the sulfide, for example) existing in the air (near a hot spring)
- A place the heat air expelled out from the outdoor unit can reach your neighbor's window.
- A place that the noise interferes your neighbors everyday life
- A place that is too weak to bear the weight of the unit
- Uneven place.
- Insufficient ventilation place.
- Near a private power station or high Frequency equipment.
- Install indoor unit, outdoor unit, power cord and connecting wire at least 1m away from TV set or radio to prevent noise The insulation of the metal parts of the building and the air conditioner should comply with the regulation of National Electric Standard.

CAUTION

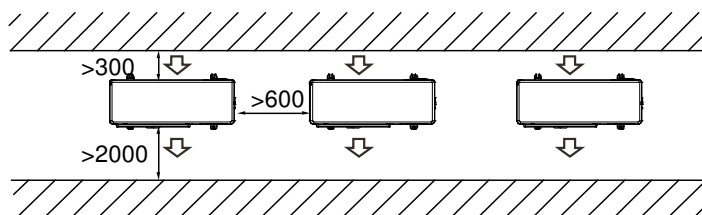
Keep indoor unit, outdoor unit, power supply wiring and transmission wiring at least 1 meter away from televisions and radios. This is to prevent image interference and noise in those electrical appliances. (Noise may be generated depending on the conditions under which the electric wave is generated, even if 1 meter is kept.)

2.2 Installation space

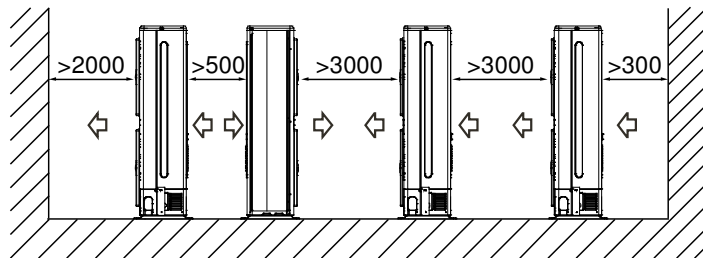
- Single unit installation



- Parallel connect the two units or above



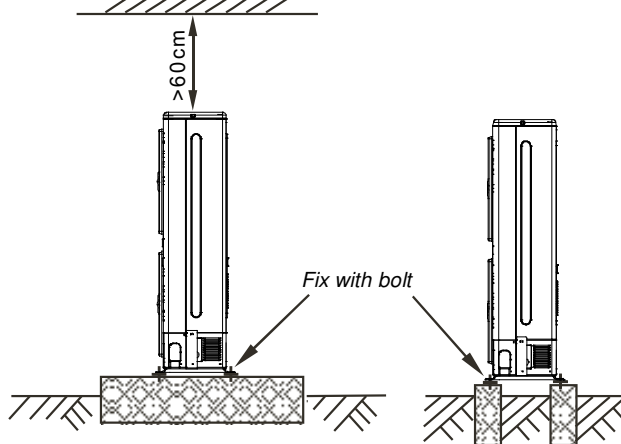
- Parallel connect the front with rear sides



mm

2.3 Moving and installation

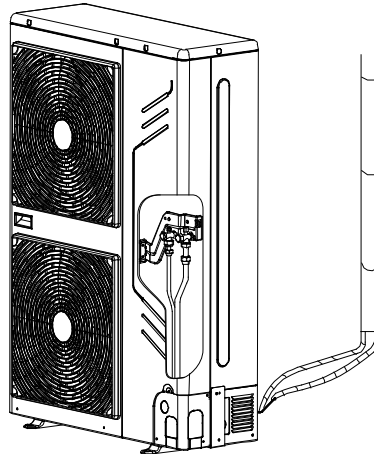
- Since the gravity center of the unit is not at its physical center, so please be careful when lifting it with a sling.
- Never hold the inlet of the outdoor unit to prevent it from deforming.
- Do not touch the fan with hands or other objects.
- Do not lean it more than 45°, and do not lay it sidelong.
- Make concrete foundation according to the specifications of the outdoor units. (refer to below Fig)
- Fasten the feet of this unit with bolts firmly to prevent it from collapsing in case of earthquake or strong wind. (refer to below Fig)



NOTE

All the pictures in this manual are for explanation purpose only. They may be slightly different from the air conditioner you purchased (depend on model). The actual shape shall prevail.

3. Installation of Refrigerant Pipe

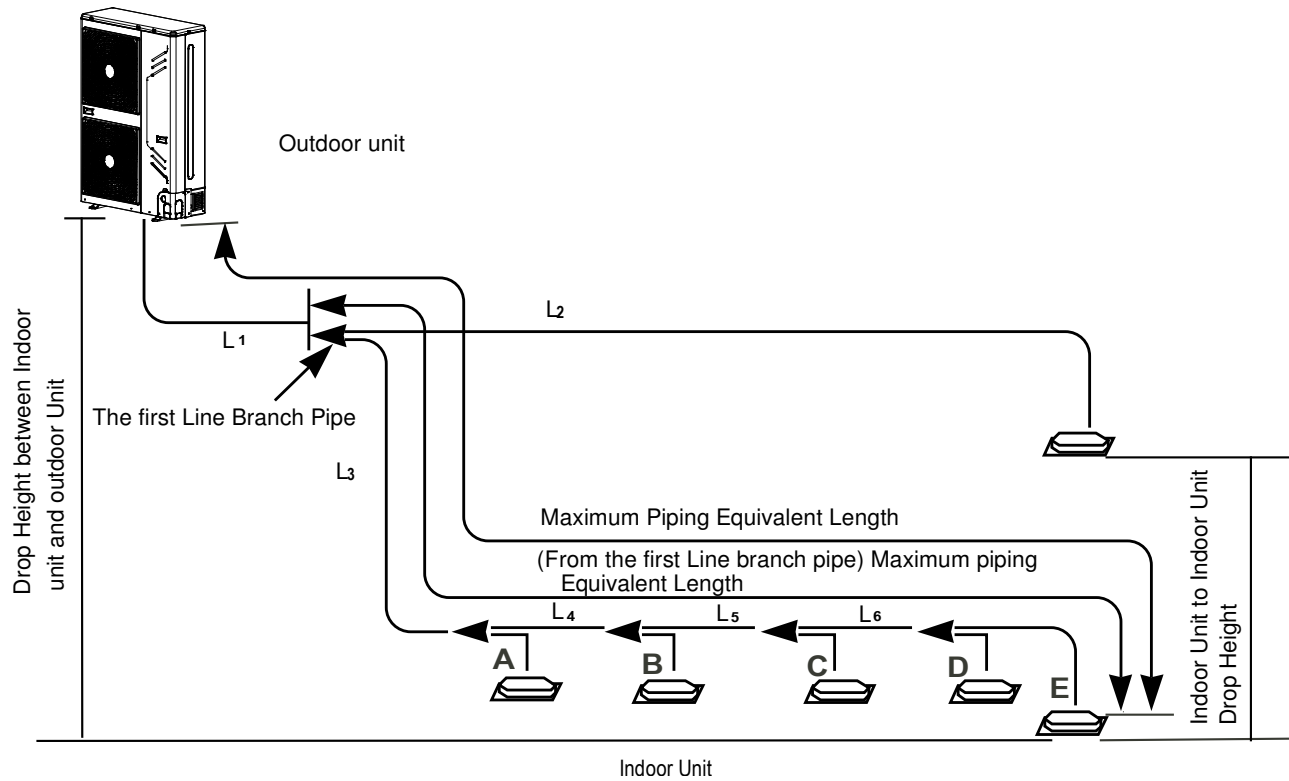


CAUTION

To prevent the refrigerant piping from oxidizing inside when welding, it is necessary to charge nitrogen, or oxide will chock the circulation system.

3.1 Using Branch pipe

3.1.1 Length and Drop Height Permitted of the Refrigerant piping



		Permitted value	Piping	
Pipe Length	Total Pipe Length (Actual)		$\leq 100\text{m}$ $L1+L2+L3+L4+L5+L6 +A+B+C+D+E$	
	Maximum Piping(L)	Actual Length	$\leq 45\text{m}$ (8Kw/10Kw) $\leq 60\text{m}$ (12/14/16Kw)	
		Equivalent Length	$\leq 50\text{m}$ (8Kw/10Kw) $\leq 70\text{m}$ (12/14/16Kw)	
	Pipe length (from the first line branch to farthest indoor unit)		$\leq 20\text{m}$	$L3+L4+L5+L6+E$
Drop Height	Indoor Unit outdoor unit	Outdoor Unit Up	30m	/

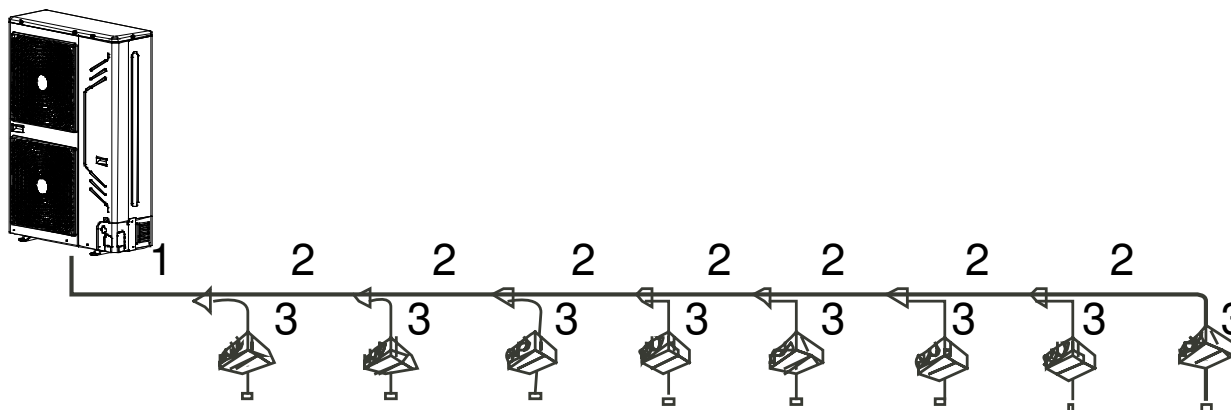
Drop Height	Outdoor Unit Down	20m	/
Indoor Unit to Indoor Unit Drop Height		8m	/

Note: Conversion of the equivalent length: Convert into the direct pipe length according to branch Junction 0.5m/l

3.1.2 Pipe size selection

3.1.2.1 Selection of the refrigerant pipe

Type of the pipe	Connecting part	No.
Main pipe	Between outdoor branch joint and first branch joint	1
Indoor main pipe	Between indoor branch joint	2
Indoor pipe	Between branch part and indoor unit	3



3.1.2.2 How to choose the Branch part and the refrigerant pipe?

According the total capacity of outdoor units to select the dimension of main pipe 1:

Refrigerant	Capacity of outdoor unit (kW)	Gas side	Liquid side
R410A	8	Φ15.9	Φ9.52
	10	Φ15.9	Φ9.52
	12	Φ15.9	Φ9.52
	14	Φ15.9	Φ9.52
	16	Φ19.1	Φ9.52
Remarks	A converter pipe is needed for the connection between first branch joint and outdoor unit.		

Notes: Branch header must be connected with indoor units directly, the further branch connection is not allowed.

3.1.2.3 The maximum connection of indoor units:

Capacity of outdoor unit (kW)	Capacity of Outdoor unit (horsepower)	Maximum Quantity of Indoor unit	Sum capacity of indoor unit (kW)
8	3	4	45%~130%
10	4	5	45%~130%
12	4	6	45%~130%
14	5	6	45%~130%
16	6	7	45%~130%

3.1.2.4 According the capacity of indoor units to select indoor main pipe 2 , main pipe 3 and branch joint:

A: the total capacity and the gas side/liquid side pipe of indoor units

Total capacity of The outdoor units	Main pipe size when the total equivalent piping length of liquid + air side is <90m			Main pipe size when the total equivalent piping length of liquid + air side is ≥90m		
	air side (mm)	liquid side (mm)	The first Line Branch Pipe	air side (mm)	liquid side (mm)	The first Line Branch Pipe
A < 160	Φ15.9	Φ9.52	BJF-224-CM	Φ19.1	Φ9.52	BJF-224-CM
160 ≤ A < 230	Φ19.1	Φ9.52	BJF-224-CM	Φ22.2	Φ9.52	BJF-330-CM

3.1.2.5 Modification main pipe 1:

According to the 3.1.2.2 and step 3.1.2.4 of calculation result, If the main pipe dimension according to outdoor capacity selection result are different from indoor capacity selection result, so the main pipe dimension you should selection bigger pipe.

3.1.2.6 Connecting method

4, 5,6 HP Outdoor unit	Gas side	Liquid side
	Flaring nut	Flaring nut

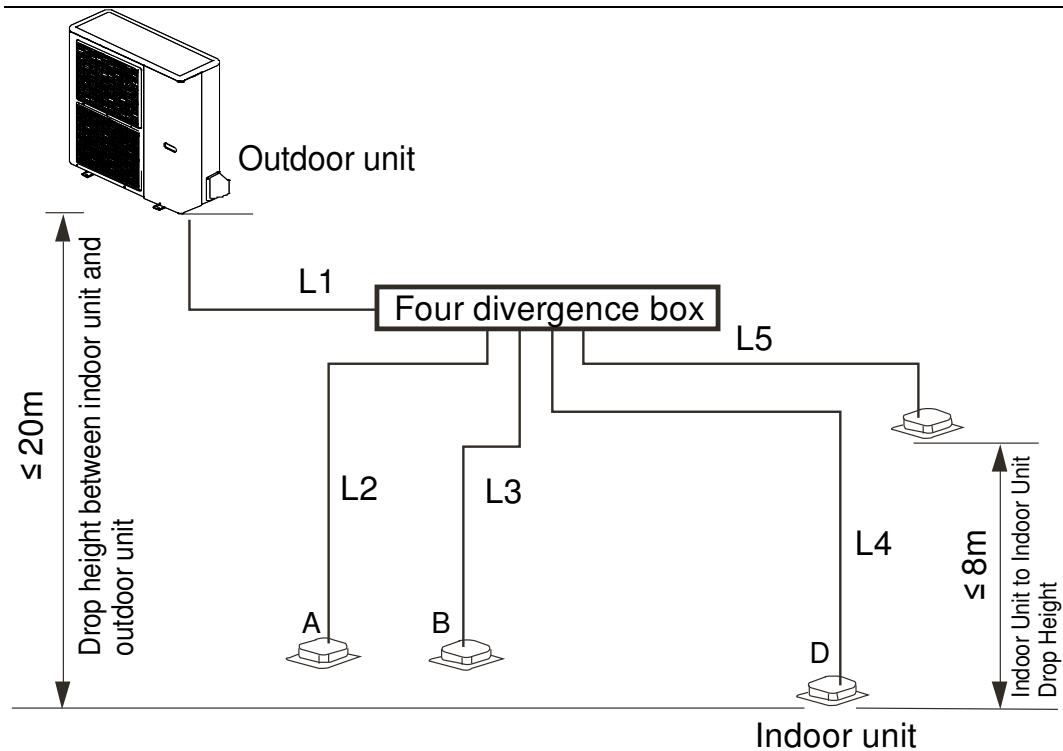
3.1.2.7 The dimension of branch part

Branch list

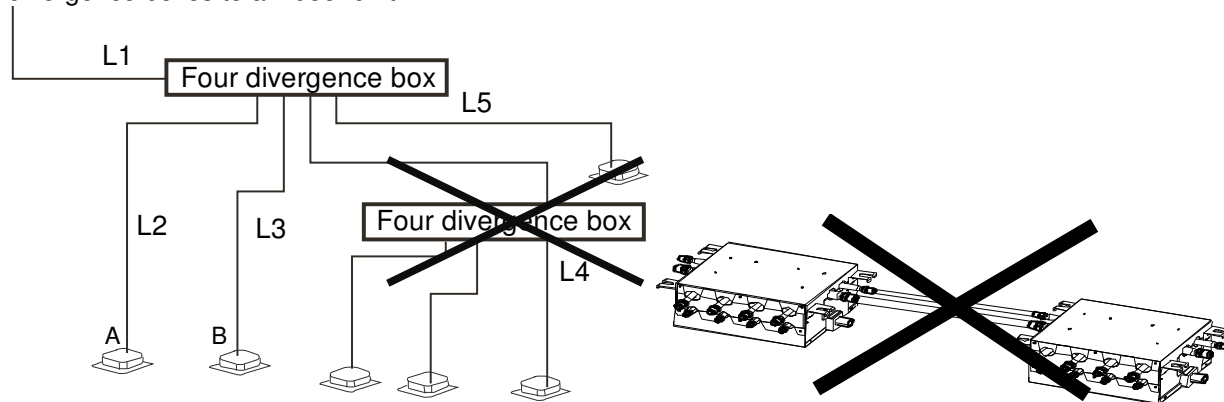
Name	Gas side joint	Liquid Side Joints
BJF-224-CM		
BJF-330-CM		

3.2 Using four divergence box

3.2.1 Length and Drop Height Permitted of the Refrigerant piping



Note: The divergence box should be placed between the indoor and outdoor units. Forbid to connect another divergence boxes to a indoor unit.



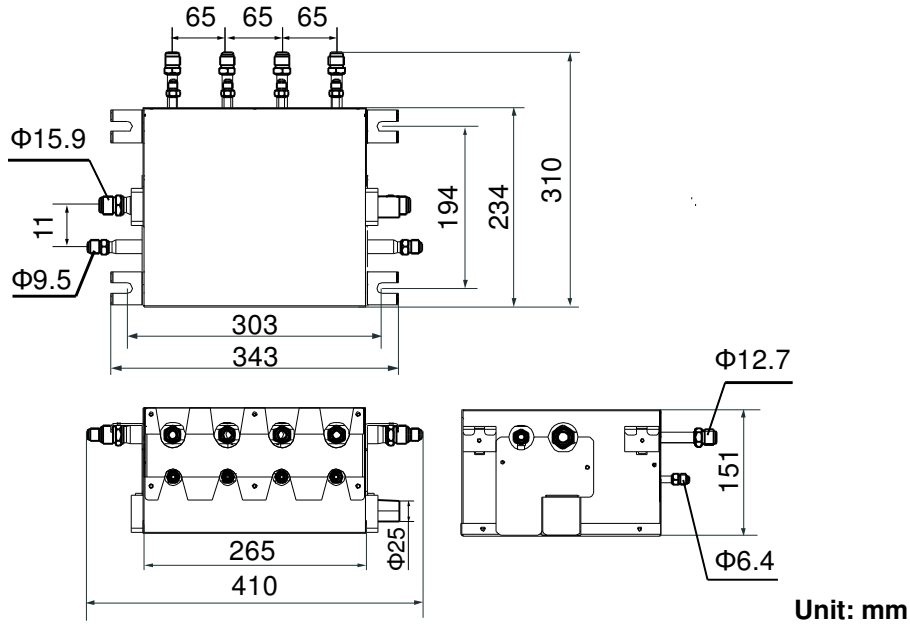
		Permitted value	Piping	
Pipe Length	Total Pipe Length (Actual)	≤100m	L1+L2+L3+L4+L5	
	Maximum Piping(L)	≤45m	L1+L2,,L1+L3,	
		≤50m	L1+ L4,L1+L5	
	Pipe length (from divergence box to indoor unit pipe)	≤20m	L2,L3,L4,L5	
Drop Height	Indoor Unit outdoor unit Drop Height	Outdoor Unit Up	≤20m	/
		Outdoor Unit Down	≤20m	/
	Indoor Unit to Indoor Unit Drop Height	≤8m	/	

Four divergence box	Outdoor side		Indoor side	
	Liquid side mm	Gas side mm	Liquid side mm	Gas side mm
	Φ9.5	Φ15.9	Φ6.4	Φ12.7

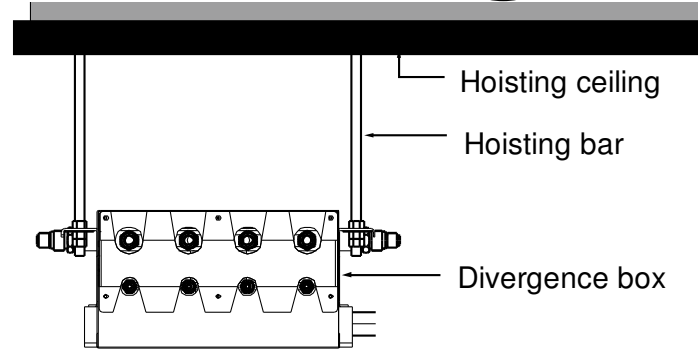
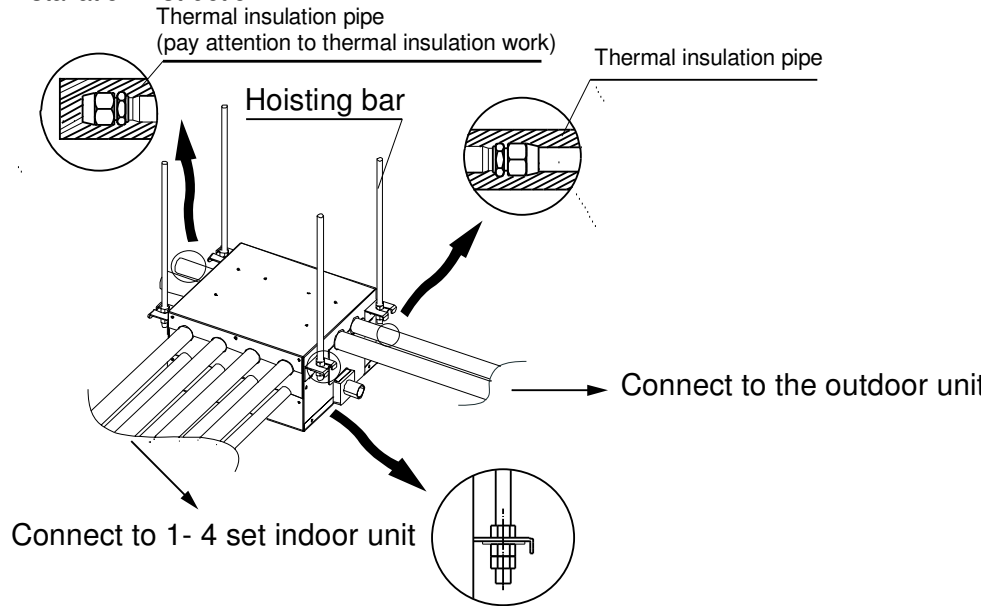
Note: Model limitation: Each Indoor unit capacity≤7100W.

3.2.2 Four divergence box dimension

Dimension



Installation instruction



3.3 Refrigerant Amount to be added

Calculate the added refrigerant according to the diameter and the length of the liquid side pipe of the outdoor unit/indoor unit connection.

Table 6-8

Liquid Side Piping Diameter	Refrigerant to be added Per meter Piping
Φ6.4	0.023kg
Φ9.5	0.060kg
Φ12.7	0.120kg
Φ15.9	0.180kg
Φ19.1	0.270kg
Φ22.2	0.380kg

NOTE:

Additional refrigerant volume of branch pipe is 0.1kg per item (Consider the liquid side of branch pipe only)

4. Processing & Installation of Drainage Pipe

4.1 Gradients and Supporting

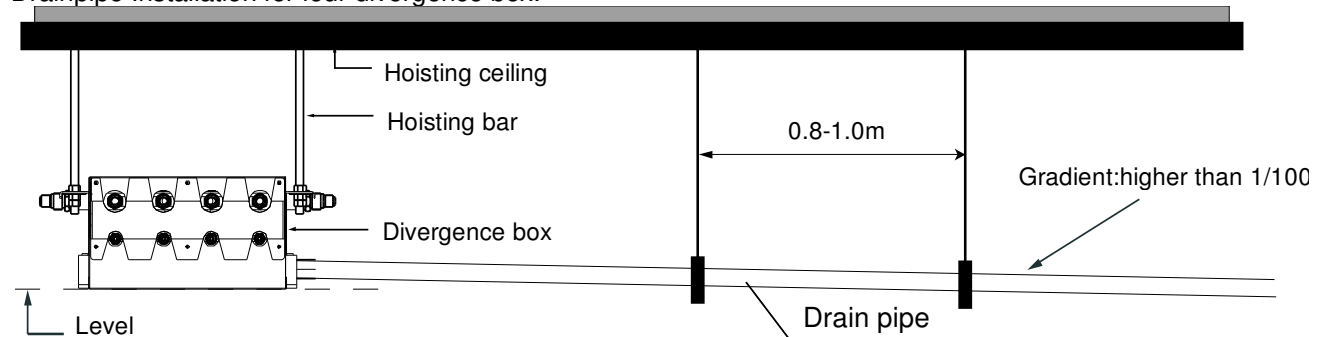
- 4.1.1 Keep the drainpipe sloping downwards at a gradient of at least 1/100. Keep the drainpipe as short as possible and eliminate the air bubble.
- 4.1.2 The horizontal drainpipe should be short. When the pipe is too long, a prop stand must be installed to keep the gradient of 1/100 and prevent bending. Refer to the following table for the specification of the prop stand.

	Diameter	Distance between the prop stands
Hard PVC pipe	25~40mm	1.5~2m

Precautions

- The diameter of drainpipe should meet the drainage requirement at least.
- The drainpipe should be heat-insulated to prevent atomization.
- Drainpipe should be installed before installing indoor unit. After powering on, there is some water in water-receiver plate. Please check if the drain pump can act correctly.
- All connection should be firm.
- Wipe color on PVC pipe to note connection.
- Climbing, horizontal and bending conditions are prohibited.
- The dimension of drainpipe can't less than the connecting dimension of indoor drainpipe.
- Heat-insulation should be done well to prevent condensation.
- Indoor units with different drainage type can't share one convergent drainpipe.

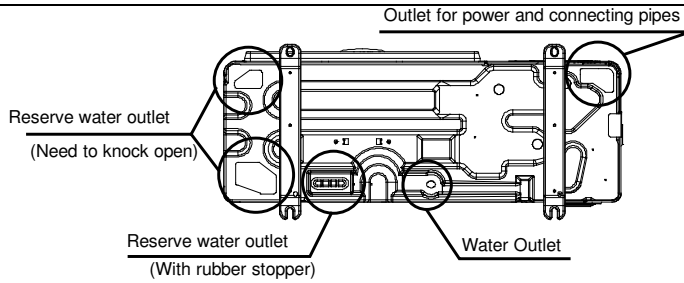
Drainpipe Installation for four divergence box.



- a. Drainpipe from main body must be wrapped by insulation tube evenly, and bound by tighten band for obstructing air getting in and coagulation.
- b. Prevent from water backflow into unit inside during shutdown, the drain pipe shall place down side and drain water to outdoor (drain side), the gradient of the drain pipe should be higher than (1/100), without salient and water remain.
- c. When connecting drainpipe, don't drag the pipe that would pull the main unit. For this, please arrange bearing points every 0.8 to 1.0 meter to avoid pipe be bended.

4.2 Drainpipe Trap

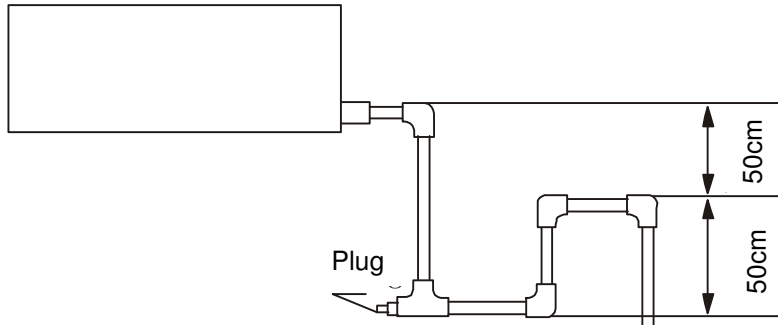
For condenser water outlets on the chassis for slection display as the follow figure.



4.2.1 If the pressure at the connection of the drainpipe is negative, it needs to design drainpipe trap.

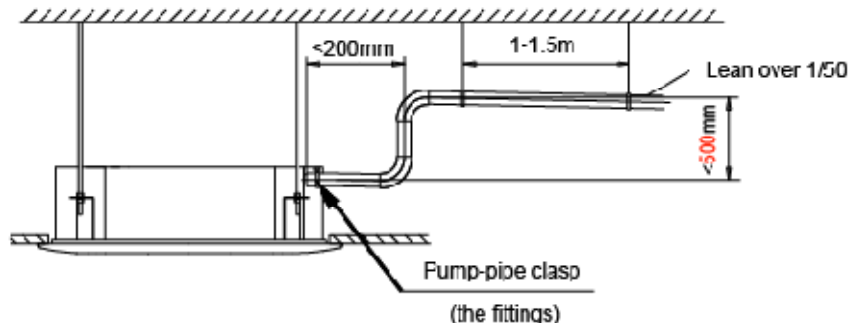
4.2.2 Every indoor unit needs one drainpipe trap.

4.2.3 A plug should be designed to do cleaning.

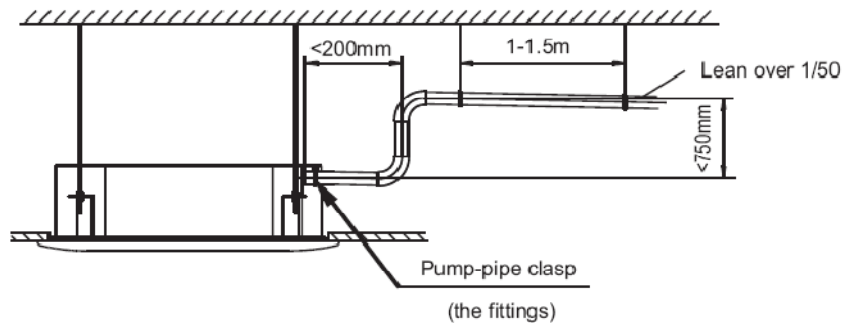


4.3 Upward drainage (drain pump)

4.3.1 For Four-way cassette(compact)



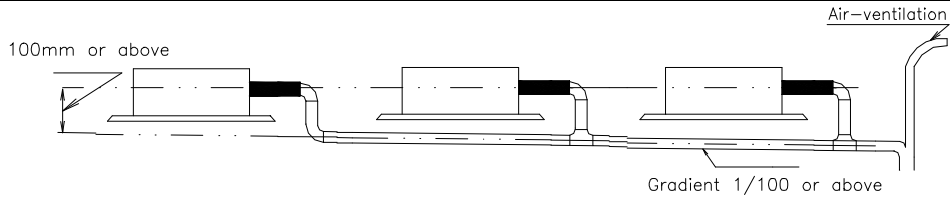
4.3.1 For Four-way cassette



4.4 Convergent drainage

4.4.1 The number of indoor units should be as small as possible to prevent the traverse main pipe overlong.

4.4.2 Indoor unit with drain pump and indoor unit without drain pump should be in different drainage system.



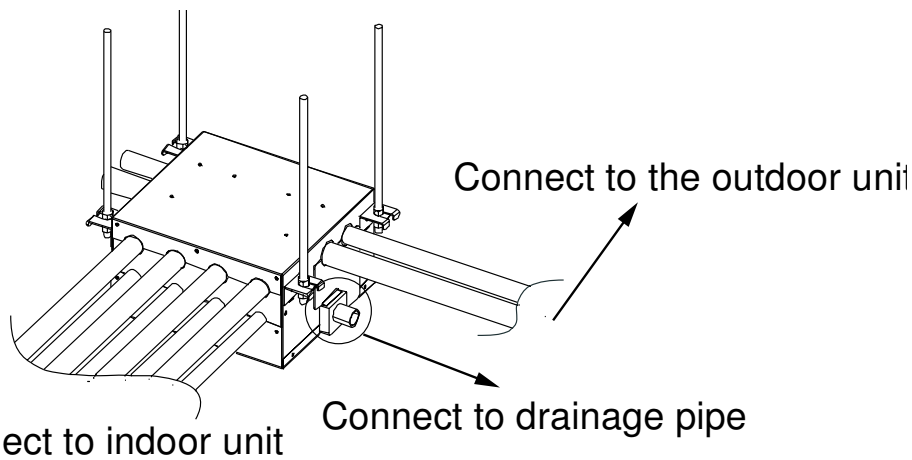
Selection the diameter

Number of connecting indoor units → Calculate drainage volume → Select the diameter

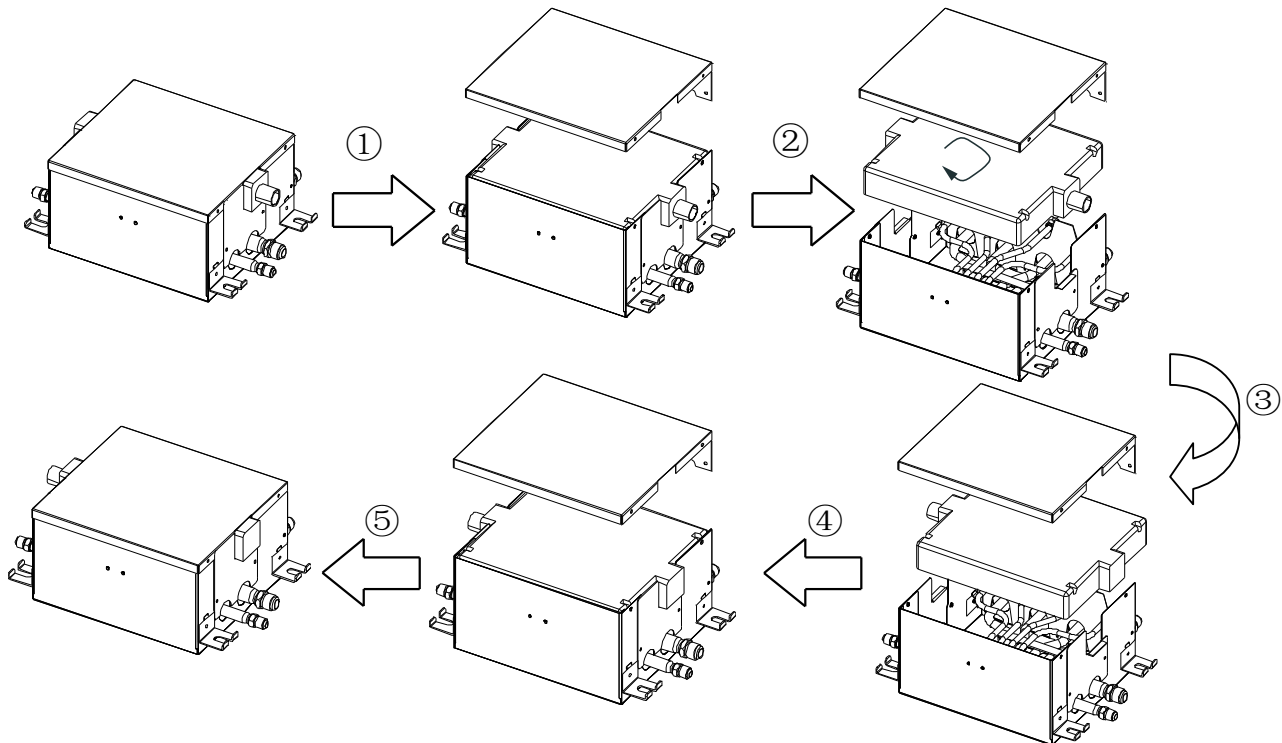
Calculate allowed volume = Total cooling capacity of indoor units (HP) × 2 (l/ hr)

	Allowed volume(lean 1/100) (l/ hr)	I.D. (mm)	Thick
Hard PVC	$\infty \leq 14$	Φ25	3.0
Hard PVC	$14 < \infty \leq 88$	Φ30	3.5
Hard PVC	$88 < \infty \leq 334$	Φ40	4.0
Hard PVC	$175 < \infty \leq 334$	Φ50	4.5
Hard PVC	$334 < \infty$	Φ80	6.0

4.5 Connect Drainage pipe from four divergence box



If it necessary to connect drainage pipe to another side, it need to convert water tank.



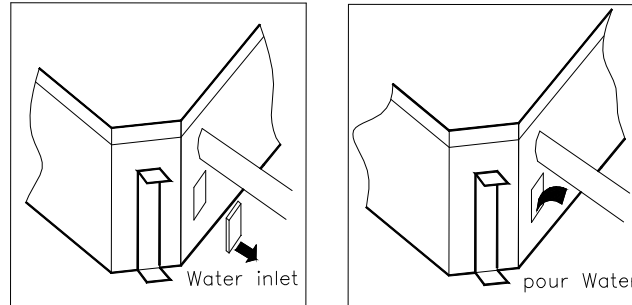
4.5 Drainage test

4.5.1 Drainage without drain pump

After finishing drainpipe installation, pour some water into the water plate to check if the water flows smoothly.

4.5.2 Drainage with drain pump

4.5.2.1 Poke the Water Level Switch, remove the cover, and use water pipe to pour 2000ml water into the water plate through the water inlet.



4.5.2.2 Turn on the power to cooling operation. Check the pump's operation and switch on the Water Level Switch. Check the pump's sound and look into the transparent hard pipe in the outlet at the same time to check if the water can discharge normally.

4.5.2.3 Stop the air conditioner running, turn off the power, and put back the cover.

- Stop the air conditioner. After 3 minutes, check if it has abnormality. If the collocation of drainpipes is illogical, the water will flow back overfull, which will cause the alarm lamp flashes, even circumfluence from the water plate.
- Keep on pouring water until it gives an alarm signal for high water level, check if the pump drains water at once. If the water level can't fall below the alarmed water level after 3 minutes, the air conditioner will stop (means this indoor unit stops, stand-by, but the outdoor unit still work if there is capacity requirement). Turn off the power and drain the remained water, then turn on the air conditioner.

Note:

the drain stopper in the main water plate is for maintenance. Stuff up the drain stopper to prevent water leakage.

5. Insulation Work

5.1 Insulation material and thickness

5.1.1 Insulation material

Insulation material should adopt the material, which is able to endure the pipe's temperature: no less than 70°C in the high-pressure side, no less than 120°C in the low-pressure side (For the cooling type machine, no requirements at the low-pressure side.)

Example: Heat pump type----Heat-resistant Polyethylene foam (withstand above 120°C)

Cooling only type---- Polyethylene foam (withstand above 100°C)

Thickness choice for insulation material

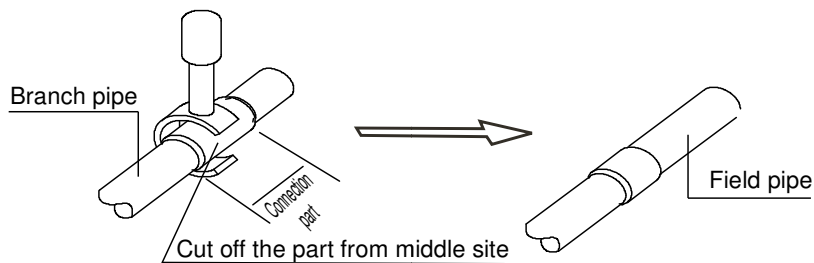
Insulation material thickness is as follows:

	Pipe diameter (mm)	Adiabatic material thickness
Refrigerant pipe	Φ6.4—Φ25.4	10mm
	Φ28.6—Φ38.0	15mm
	Φ38.0—Φ67.0	20mm
Drainage pipe	Inner diameterΦ20—Φ32	6mm

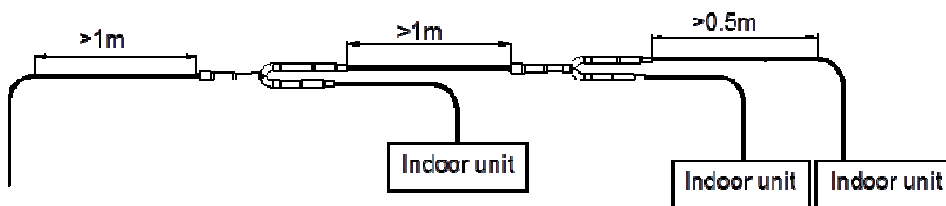
5.2 Refrigerant pipe insulation

5.2.1 Work Procedure

- Before laying the pipes, the non-jointing parts and non-connection parts should be heat insulated.
- After the gas proof test is eligible, the jointing area, expanding area and the flange area should be heat insulated
- Select the branch pipes' model according to the Model Selection Guide and the downstream indoor unit capacity. According to the actual piping size and cut off the needless parts with special tools such as cutter.

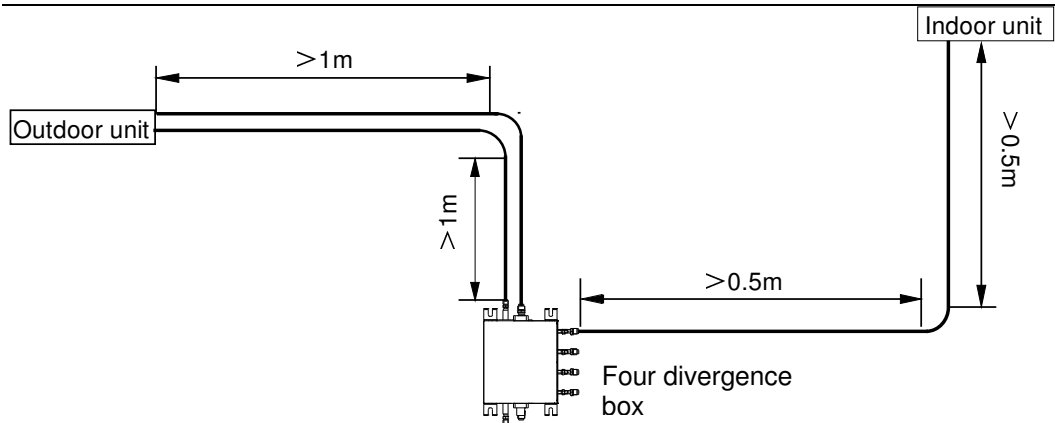


- Pay attention to the distance of straight horizontal pipe



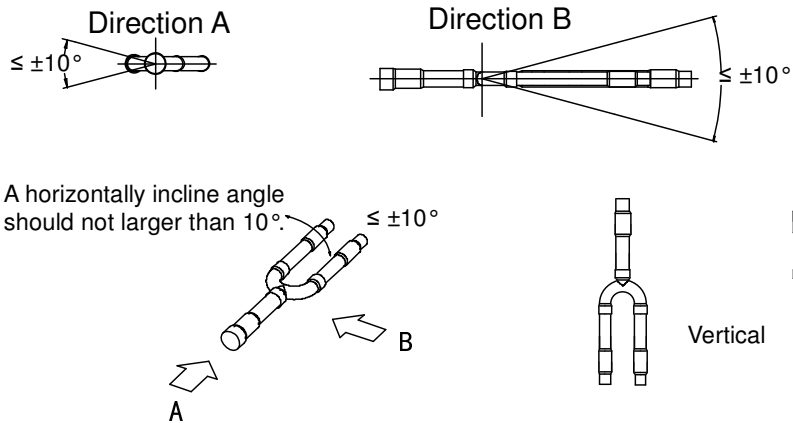
- The straight horizontal pipe's distance between two adjacent branch pipes should $\geq 1\text{m}$.
- Distance between two adjacent branches should $\geq 1\text{m}$.
- The straight horizontal pipe's distance which indoor unit connecting behind the branch pipe should $\geq 0.5\text{m}$.

- The MIN. length of straight pipe connected to four divergence box



- a. The distance between outdoor unit and the nearest of straight pipe need to be $>1m$.
- b. The distance between the divergence input terminal and the nearest turning site of straight pipe need to be $>1m$.
- c. The distance between the divergence output terminal and the nearest turning site of straight pipe need to be $>0.5m$.
- d. The distance between indoor unit and the nearest turning site of straight pipe need to be $>0.5m$.

● Pay attention to lay horizontally and vertically.



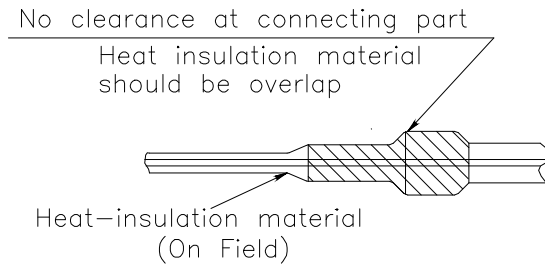
Insulation for non-jointing parts and non-connection parts

Wrong	Right	
Gas pipe and liquid pipe should not be put together to insulate	Insulate the gas pipe (Cooling only)	Insulate the gas pipe and the liquid pipe

For construction convenience, before laying pipes, use insulation material to insulate the pipes to be deal with, at the same time, at two tips of the pipe, Remain some length not to be insulated, in order to be welded and check the leakage after laying the pipes.

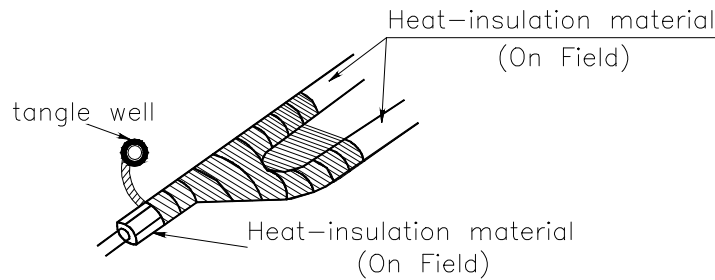
Insulate for the jointing area, expanding area and the flange area

- Insulate for the jointing area, expanding area and the flange area should be done after checking leakage of the pipes
- Make sure there's no clearance in the joining part of the accessorial insulation material and local preparative insulation material.



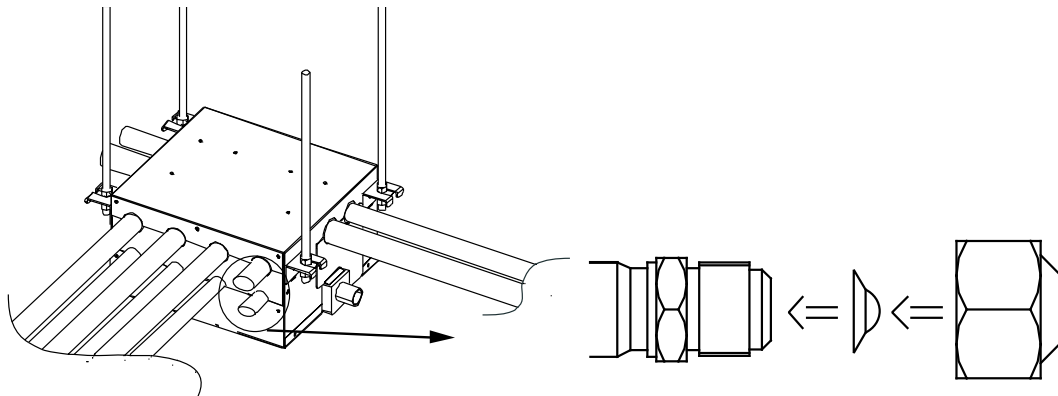
Enswathe disposal

After insulation of the pipes, do the enswathe disposal with binding belt, make sure it's tight.



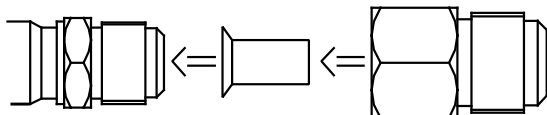
Note:

When use four divergence box, the un-connected inlet pipe needs to be sealed up



Connect to indoor unit

If the indoor unit pipe size is larger than four divergence box indoor side pipe size, it need to change small adaptor to bigger one.



Drainage pipe insulation

The connection part should be insulated, or else water will be condensing at the non-insulation part.

5.4 Note

- 5.4.1** The jointing area, expanding area and the flange area should be heat insulated after passing the pressure test
- 5.4.2** The gas and liquid pipe should be heat insulated individually, the connecting part should be heat insulated individually.
- 5.4.3** Use the attached heat-insulation material to insulate the pipe connections (pipes' tie-in ,expand nut) of the indoor unit.

6. Electric Installation

CAUTION

- Please select power source for indoor unit and outdoor unit respectively
- The power supply has specified branch circuit with leakage protector and manual switch.
- Indoor unit connect with power supply which is 220-240V~50Hz. Outdoor unit connect with power supply which is 220-240V~50Hz (Please set all the indoor unit power of one system into the same branch circuit.)
- Please put the connective wire system between indoor unit and outdoor unit with the refrigerant system together.
- Use 3-core screened wire as indoor and outdoor control wire.
- The installation should comply with relevant national electric standard.
- Power wiring should be engaged by specialized electrician.

6.1 Outdoor Unit Wiring

The Specification of Power

Table 6-1

Capacity		8kW-10kW
Outdoor Unit power	Phase	1N phase
	Frequency and Voltage	220-240V~ 50Hz
	Power Wiring(mm ²)	3-core X 4.0
Circuit Breaker/Fuse (A)		25
Indoor unit/Outdoor unit Signal wire (Weak electric signal) (mm ²)		3-core shielded wire 3X0.75

Table 6-2

Capacity		12kW-16kW
Outdoor Unit power	Phase	1N phase
	Frequency and Voltage	220-240V~ 50Hz
	Power Wiring(mm ²)	3-core X 4.0
Circuit Breaker/Fuse (A)		40
Indoor unit/Outdoor unit Signal wire (Weak electric signal) (mm ²)		3-core shielded wire 3X0.75

Table 6-2

Capacity		12kW-16kW
Outdoor Unit power	Phase	3N phase
	Frequency and Voltage	220-240V~ 50Hz
	Power Wiring(mm ²)	3-core X 2.5
Circuit Breaker/Fuse (A)		25
Indoor unit/Outdoor unit Signal wire (Weak electric signal) (mm ²)		3-core shielded wire 3X0.75

CAUTION

A disconnection device having an air gap contact separation in all active conductors should be incorporated in the fixed wiring according to the National Wiring Regulation.

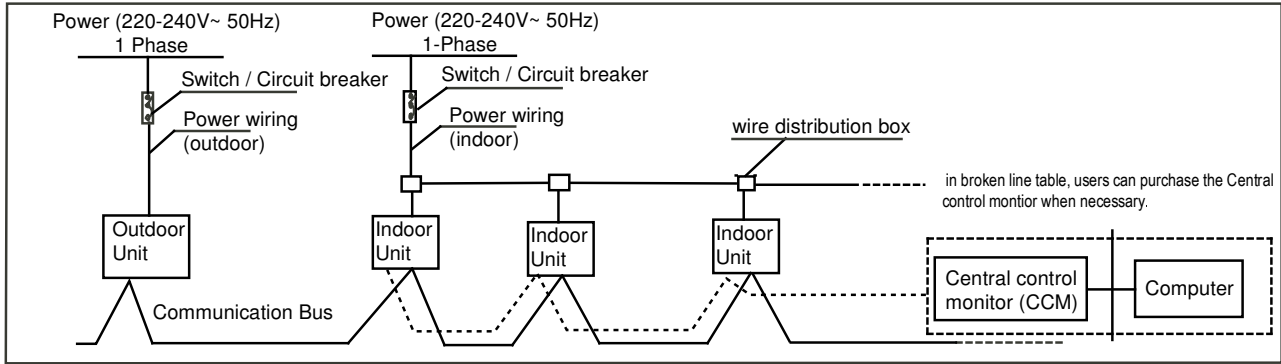


Fig.6-1

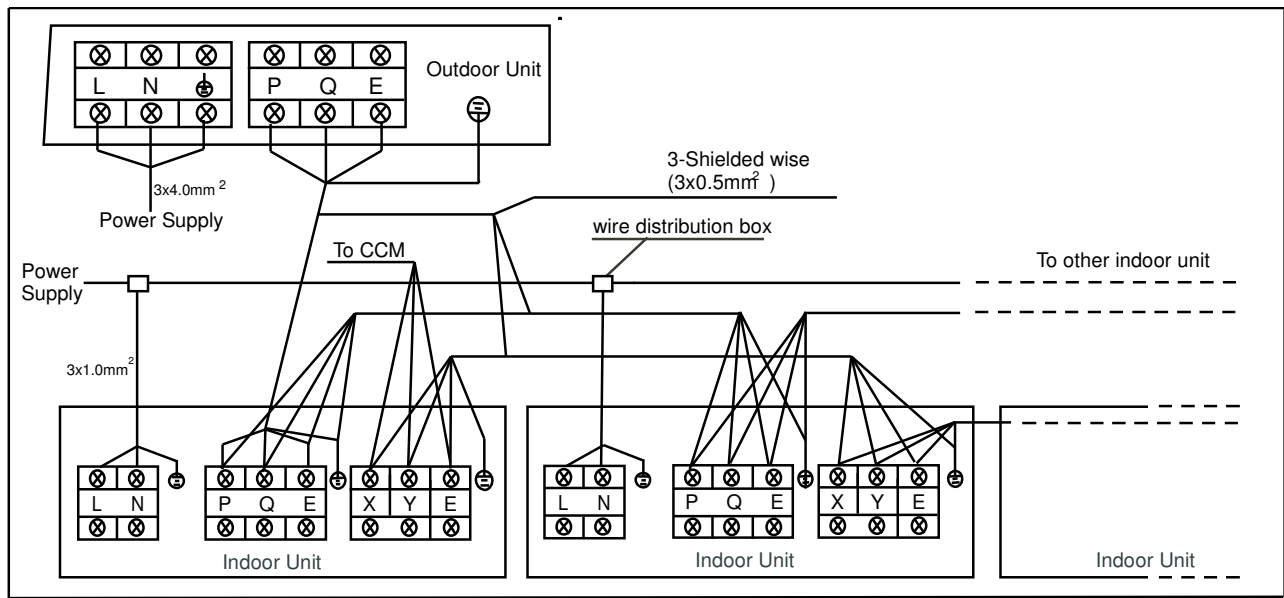


Fig.6-2

CAUTION

The reserved function is indicated in broken line table, users can select it when necessary.

Indoor/Outdoor Unit Signal Wire

Connect the wire according to their numbers.
Wrong connection may cause malfunction.

Wiring Connection

Seal the wiring connection with the insulation material, or the condensing dew will be caused.

NOTE

The air-conditioners can connect with Central Control Monitor. Before operation, please wiring correctly and set system the air-conditioners can connect with Central Control Monitor. Before operation, please wiring correctly and set system

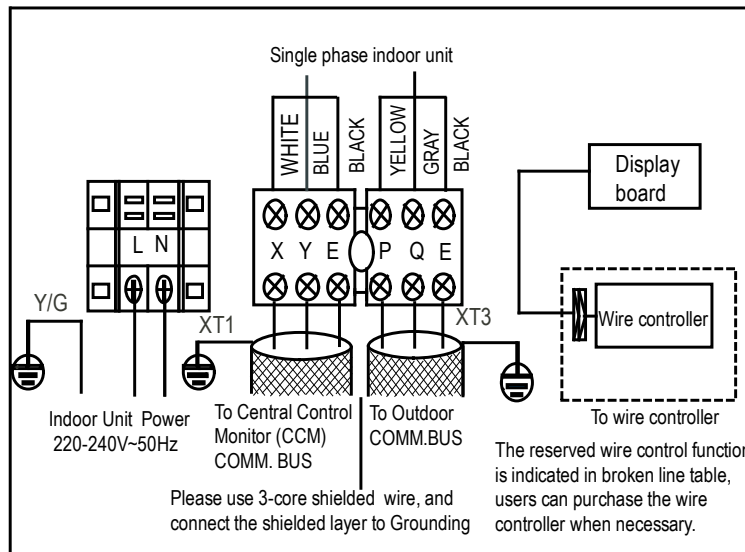


Fig.6-3

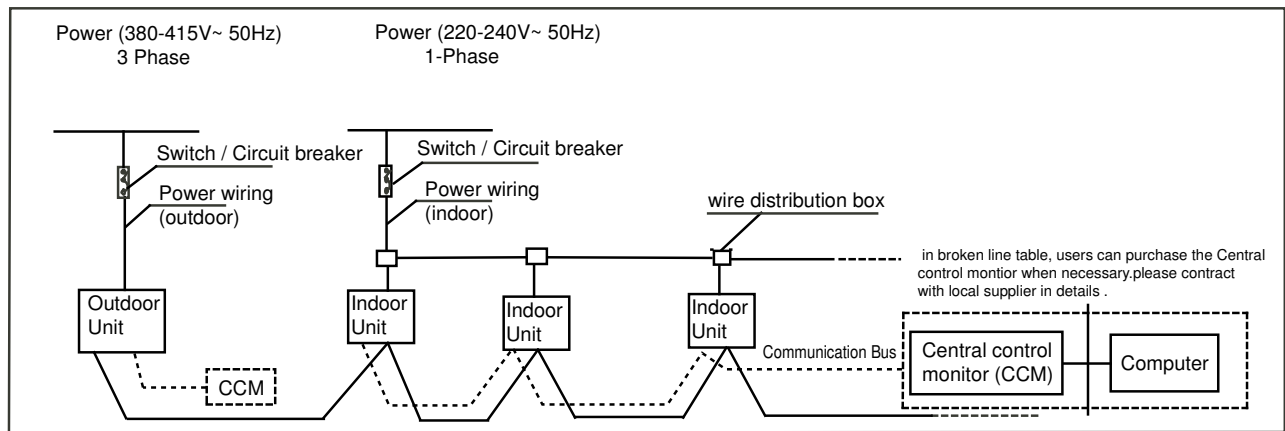


Fig.6-4

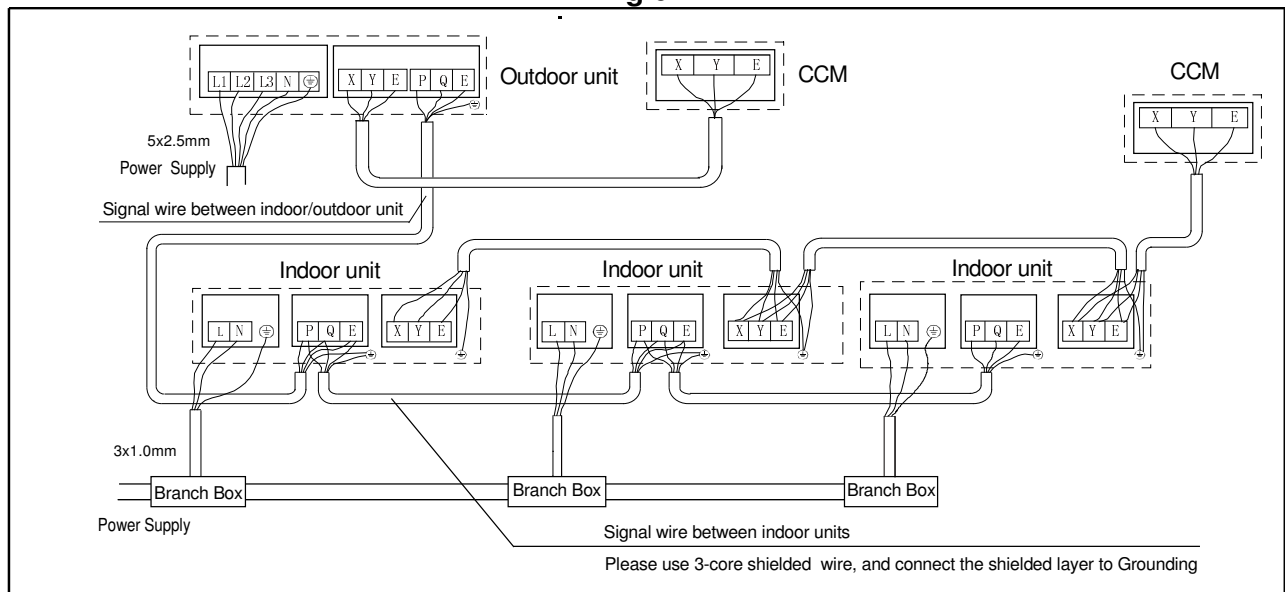


Fig.6-5

CAUTION

The reserved function is indicated in broken line table, users can select it when necessary.

Indoor/Outdoor Unit Signal Wire

Connect the wire according to their numbers.
Wrong connection may cause malfunction.

Wiring Connection

Seal the wiring connection with the insulation material, or the condensing dew will be caused.

NOTE

The air-conditioners can connect with Central Control Monitor. Before operation, please wiring correctly and set system the air-conditioners can connect with Central Control Monitor. Before operation, please wiring correctly and set system

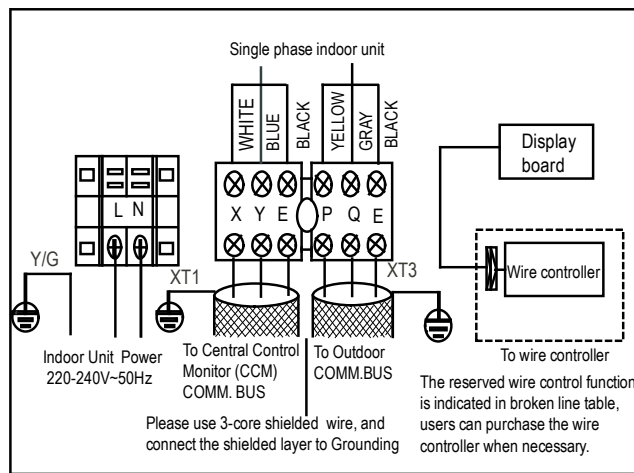


Fig.6-6

6.2 Indoor Unit Wiring

Power Supply

Table 6-2

Capacity (Kw)		1.8~16
indoor Unit power	Phase	1- phase
	Frequency and Voltage	220-240V~ 50Hz
	Power Wiring(mm²)	3-core×1.0
Circuit Breaker (A)		15
Indoor unit/Outdoor unit Signal wire (Weak electric signal) (mm²)		3-core shielded wire 3X0.5

1.Signal wire is 3-core, polarized wire. Use 3-core shield wire to prevent interference. The grounding method now is grounding the closed end of the shield wire and opening (insulating) at the end. Shield is to be grounded.

2.The control between outdoor unit and indoor unit is BUS type. An address is set on field during the installation.

CAUTION

The wire diameter and continuous length is under the condition that the voltage vibration is within 2%. If the continuous length is exceed showing value, choose the wire diameter follow relevant regulation.

Indoor unit power supply wiring

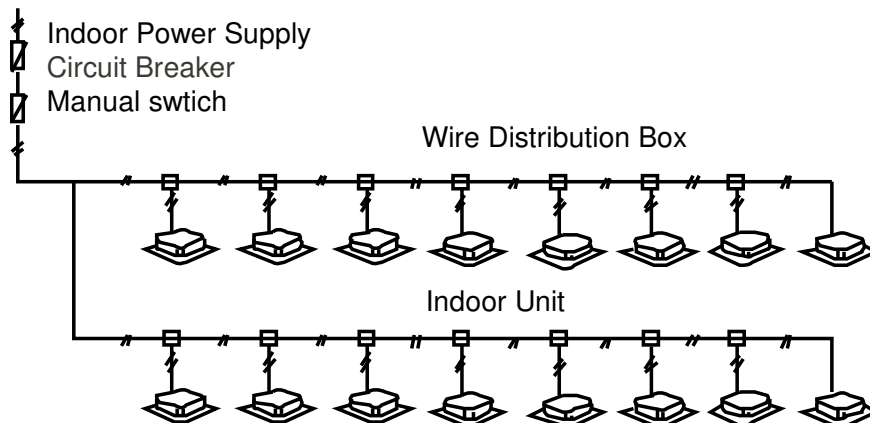


Fig.6-7

CAUTION

1. Refrigerant piping system, indoor unit-indoor unit connection signal wires and indoor unit-outdoor unit connection signal wire are in the same system.
2. When power cord is parallel with signal wire, please put them into separate wire distribution pipes, and leave a proper distance.
(Reference distance: It is 300mm when current capacity of power cord is less than 10A, or 500mm when 50A).
Please use shield wire as indoor unit/outdoor unit signal wire.

Indoor/Outdoor unit signal wire wiring

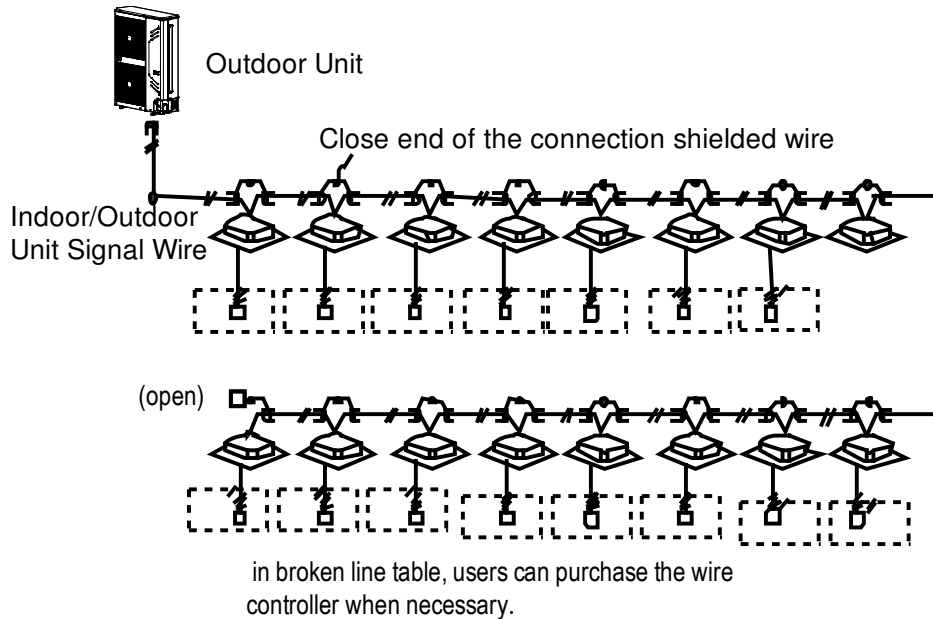


Fig.6-8

7. Test Running

Operate according to "gist for test running" on the electric control box cover.

CAUTION

- Test running can not start until the outdoor unit has been connected to the power for 12hr.
- Test running can not start until all the valves are affirmed open.
- Never make the forced running. (Or the protector sits back, danger will occur.)

8. Precautions on Refrigerant Leakage

This air conditioner (A/C) adopts innocuous and nonflammable refrigerant. The locating room of the A/C should big enough that any refrigerant leakage is unable to reach critical thickness. So certain essential action can be taken on time.

Refrigerant critical thickness: 0.44[kg/m] for R410A.

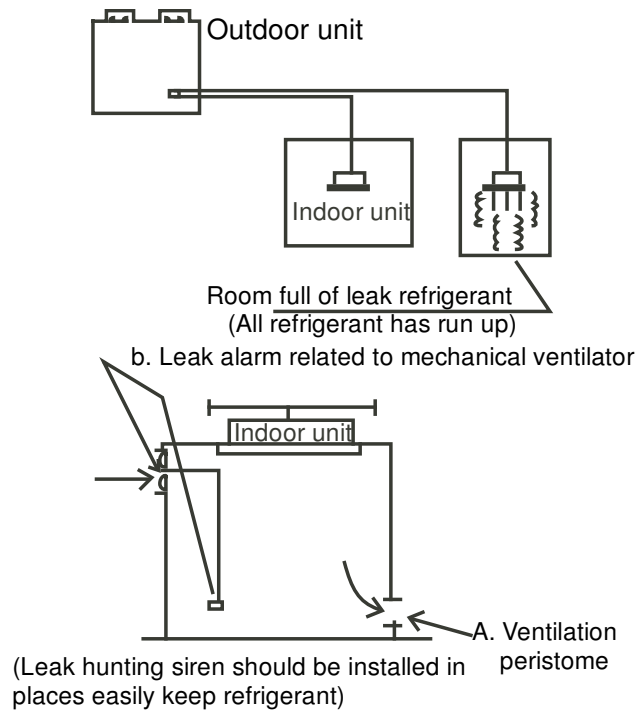
Confirm the critical thickness through follow steps, and take necessary actions.

1. Calculate the sum of the charge volume (A[kg]) Total Refrigerant volume of 10HP=factory refrigerant volume + super addition
2. Calculate the indoor cubage (B[m³]) (as the minimum cubage.
3. Calculate the refrigerant thickness

$$\frac{A[\text{kg}]}{B[\text{m}^3]} \leq \text{critical thickness}$$

Counter measure against over high thickness

1. Install mechanical ventilator to reduce the refrigerant thickness under critical level. (ventilate regularly)
2. Install leak alarm facility related to mechanical ventilator if you cannot regularly ventilate.



NOTE

Please press “constraint cool” button to carry out refrigerant recycling process. Keep the low pressure above 0.2MPa; otherwise compressor may be burnt out.