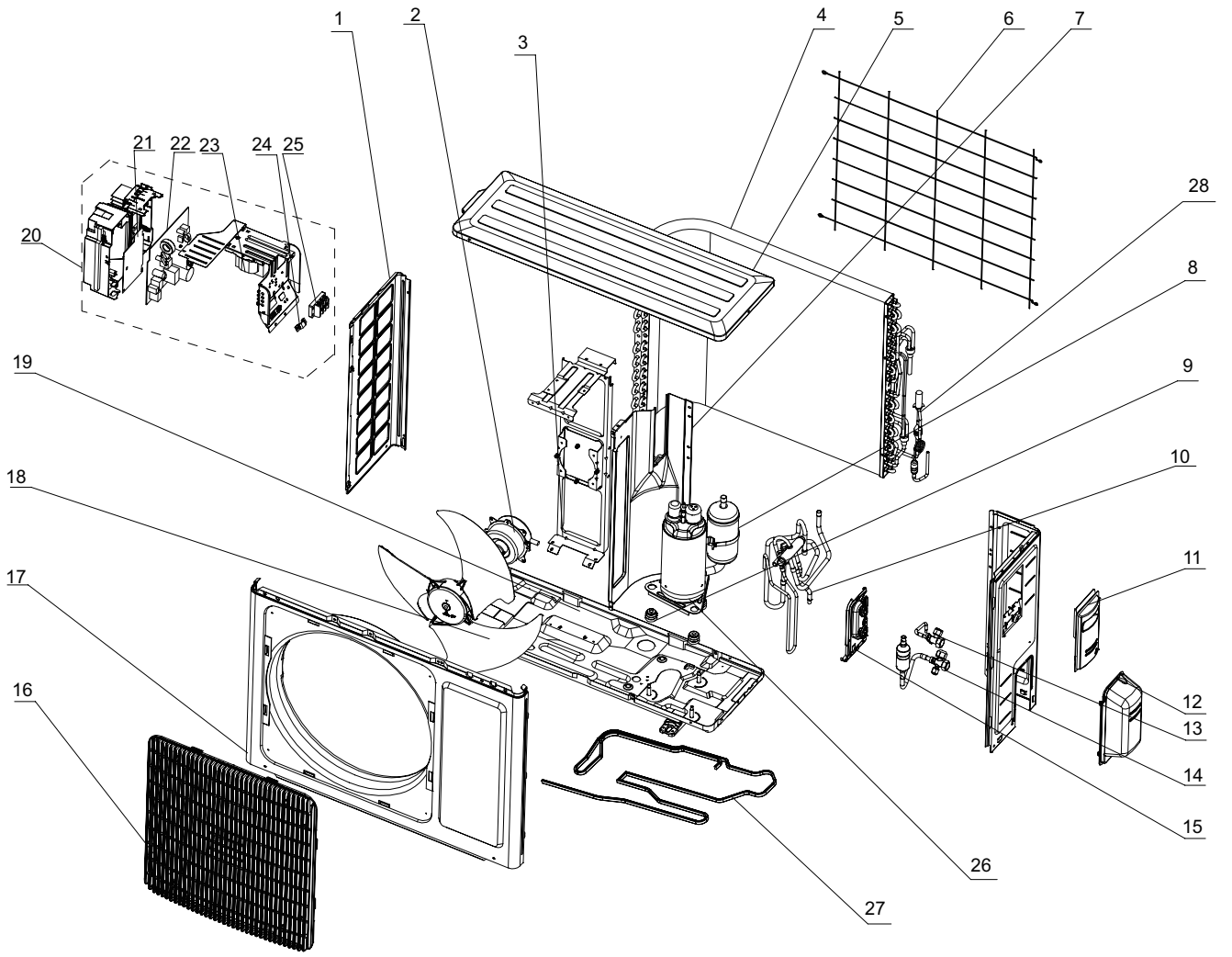
NO.	Description	Part Code		Qty
		GWH09ACC-K6DNA1A/O		
	Product Code	CB497W03000	CB497W03001	
1	Electric Box Assy	100002062002	100002062004	1
2	Electric Box	20113034	20113034	1
3	Main Board	300027060217	300027060218	1
4	Reactor	43130184	43130184	1
5	Terminal Board	422000060016	422000060016	1
6	Wire Clamp	71010103	71010103	2
7	Front Grill	22413049	22413049	1
8	Front Panel	01533034P	01533034P	1
9	Axial Flow Fan	10333004	10333004	1
10	Chassis Sub-assy	017000060096P	017000060102P	1
11	Brushless DC Motor	1501308519	1501308519	1
12	Top Cover Sub-Assy	000051060006	000051060006	1
13	Motor Support	01703104	01703104	1
14	Condenser Assy	011002060269	011002060269	1
15	Rear Grill	01473009	01473009	1
16	Capillary Sub-assy	030006060228	030006060228	1
17	Cut off Valve	07100003	07100003	1
18	Big Handle	262334332	262334332	1
19	Cut off Valve	07133474	07133474	1
20	Valve Support	0171314201P	0171314201P	1
21	Right Side Plate Sub-Assy	0130317801	0130317801	1
22	4-Way Valve Assy	030152060087	030152060087	1
23	Clapboard Sub-Assy	0123338502	0123338502	1
24	Magnet Coil	4300040050	4300040050	1
25	Compressor and Fittings	009001060050	009001060050	1
26	Electrical Heater	/	/	/
27	Electrical Heater (Chassis)	7651000414	/	1
28	Drainage Connecter	06123401	06123401	1

Above data is subject to change without notice.

12K

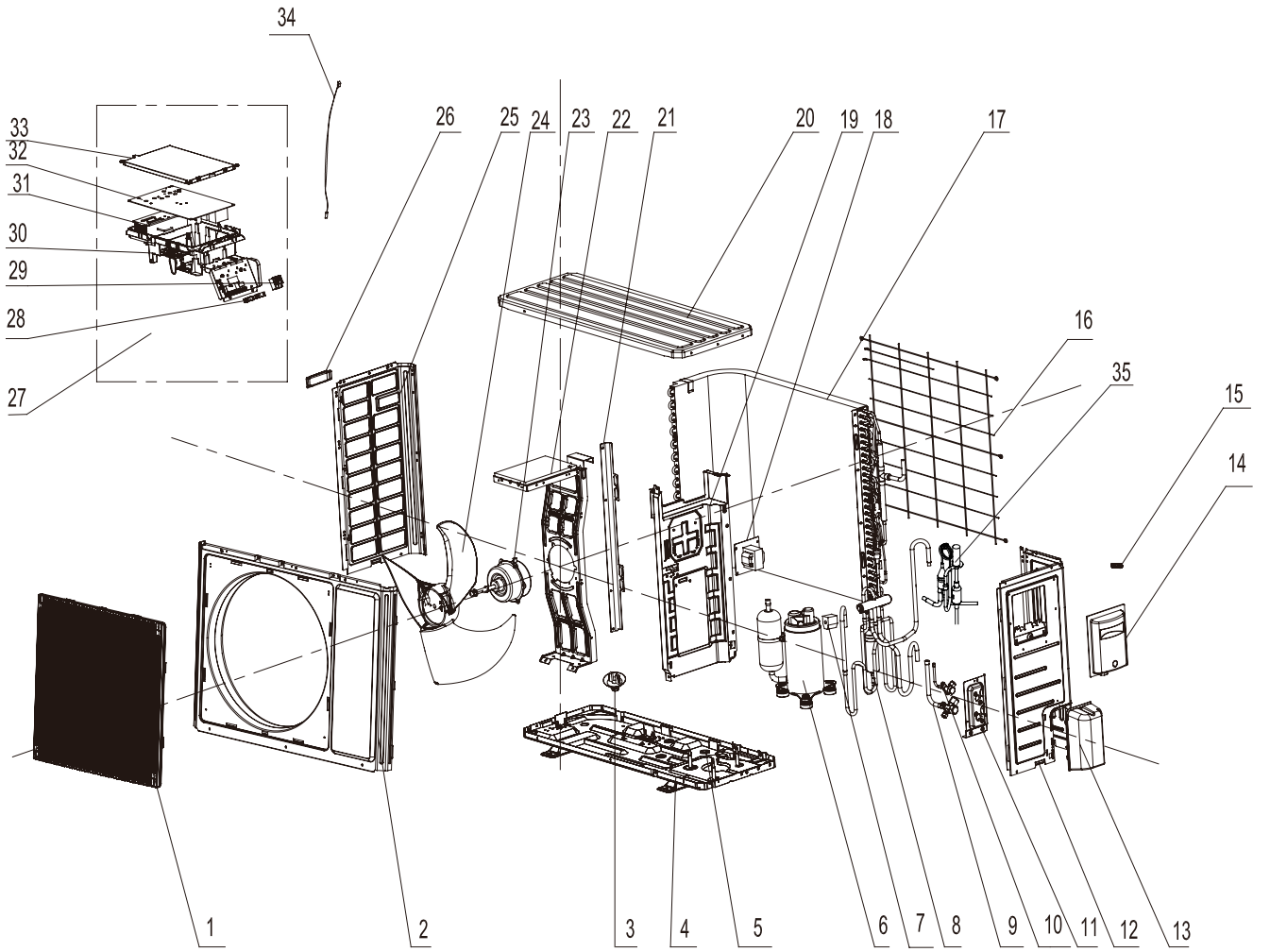


The component picture is only for reference; please refer to the actual product.

NO.	Description	Part Code		Qty
		GWH12QC-K6DNA1D/O (LCLH)	GWH12QC-K6DNA1D/O(LC)	
	Product Code	CB419W15500	CB419W15501	
1	Left Side Plate	01303200P	01303200P	1
2	Fan Motor	1501308511	1501308511	1
3	Motor Support	01703136	01703136	1
4	Condenser Assy	011002060182	011002060182	1
5	Top Cover Sub-Assy	000051060003	000051060003	1
6	Rear Grill	01475014	01475014	1
7	Clapboard Sub-Assy	01233180	01233180	1
8	Compressor and Fittings	009001060066	009001060066	1
9	Compressor Gasket	76010083	76010083	3
10	4-Way Valve Assy	030152060069	030152060069	1
11	Big Handle	2623343106	2623343106	1
12	Valve Cover	22243006	22243006	1
13	Cut off Valve	071302391	071302391	1
14	Cut off Valve	07130239	07130239	1
15	Valve Support	0171314201P	0171314201P	1
16	Front Grill	22413044	22413044	1
17	Cabinet	01433033P	01433033P	1
18	Axial Flow Fan	10333011	10333011	1
19	Chassis Sub-assy	017000060083P	017000060083P	1
20	Electric Box Assy	100002061041	100002061041	1
21	Electric Box	20113034	20113034	1
22	Main Board	300027060162	300027060162	1
23	Reactor	43130184	43130184	1
24	Wire Clamp	71010103	71010103	2
25	Terminal Board	42010313	42010313	1
26	Electrical Heater	/	/	/
27	Electrical Heater (Chassis)	7651000414	/	1
28	Electric Expansion Valve Sub-Assy	030026060094	030026060094	1

Above data is subject to change without notice.

18/24K



The component picture is only for reference; please refer to the actual product.

NO.	Description	Part Code		Qty
		GWH18QD-K6DNA1D/O	GWH18QD-K6DNA1D/O	
	Product Code	CB419W15600	CB419W15601	
1	Front Grill	22413045	22413045	1
2	Front Panel	01535013P	01535013P	1
3	Drainage Connecter	06123401	06123401	1
4	Chassis Sub-assy	02803270P	02803270P	1
5	Drainage hole Cap	06813401	06813401	3
6	Compressor and fittings	009001060006	009001060006	1
7	Magnet Coil	4300876704	4300876704	1
8	4-Way Valve Assy	030152060089	030152060089	1
9	Cut off Valve Assy 1/2	030164000042	030164000042	1
10	Cut off Valve Sub-Assy	0713506803	0713506803	1
11	Valve support assy	01715010P	01715010P	1
12	Right Side Plate	0130509402P	0130509402P	1
13	Valve cover	22245002	22245002	1
14	Handle	26233053	26233053	1
15	Wiring Clamp	26115004	26115004	1
16	Rear Grill	01473043	01473043	1
17	Condenser Assy	011002060187	011002060187	1
18	Reactor	/	/	/
19	Clapboard Assy	01233153	01233153	1
20	Coping	012049000007P	012049000007P	1
21	Supporting Board(Condenser)	01795010	01795010	1
22	Motor Support Sub-Assy	01705036	01705036	1
23	Fan Motor	1501506402	1501506402	1
24	Axial Flow Fan	10335008	10335008	1
25	Left Side Plate	01305093P	01305093P	1
26	left handle	26233053	26233053	1
27	Electric Box Assy	100002061293	100002061293	1
28	Wire Clamp	71010003	71010003	1
29	Terminal Board	422000060009	422000060009	1
30	Electric Box	20113027	20113027	1
31	Radiator	49013060	49013060	1
32	Main Board	300027060172	300027060172	1
33	Insulated Board (Cover of Electric Box)	20113003	20113003	1
34	Temperature Sensor	3900030901	3900030901	1
35	Electric Expansion Valve Sub-Assy	030174060025	030174060025	1

Above data is subject to change without notice.

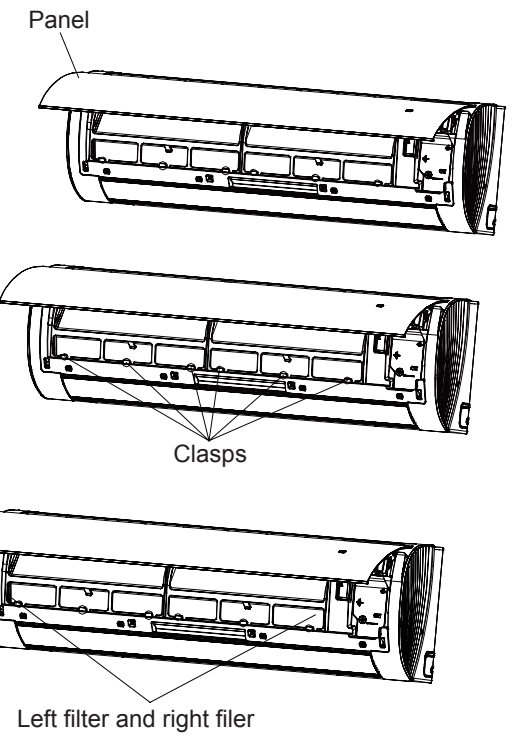
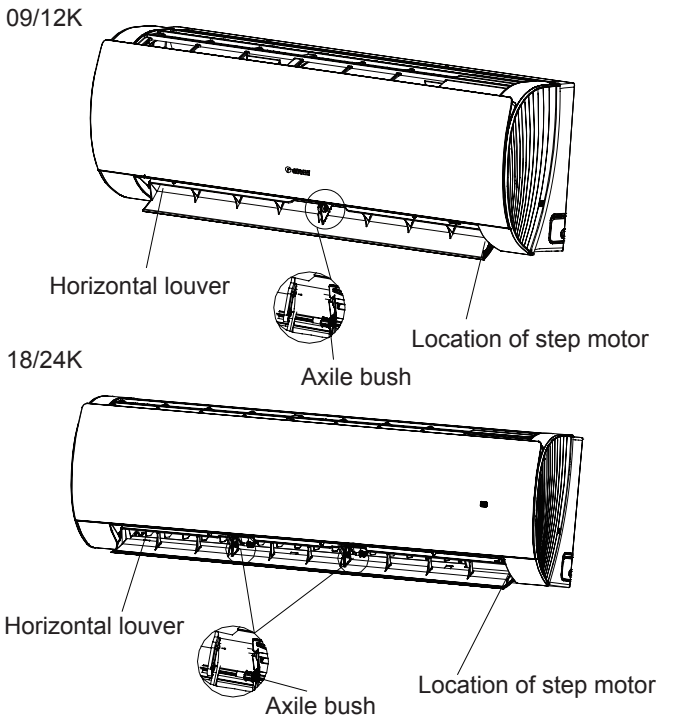
NO.	Description	Part Code		Qty
		GWH24QE-K6DNA1E/O	GWH24QE-K6DNA1E/O	
	Product Code	CB419W15700	CB419W15701	
1	Front Grill	22415010	22415010	1
2	Front Panel	01535013P	01535013P	1
3	Drainage Connecter	06123401	06123401	1
4	Chassis Sub-assy	0120581601P	01205816P	1
5	Drainage hole Cap	06813401	06813401	3
6	Compressor and fittings	009001000195	009001000195	1
7	Magnet Coil	4300040087	4300040087	1
8	4-Way Valve Assy	03073274	03073274	1
9	Cut off Valve Assy 1/2	07133833	07133833	1
10	Cut off Valve Sub-Assy	07133843	07133843	1
11	Valve support assy	0130509001P	0130509001P	1
12	Right Side Plate	01705046P	01705046P	1
13	Valve cover	22245002	22245002	1
14	Handle	26233053	26233053	1
15	Wiring Clamp	/	/	/
16	Rear Grill	01475020	01475020	1
17	Condenser Assy	011002000244	011002000244	1
18	Reactor	/	/	/
19	Clapboard Assy	01235081	01235081	1
20	Coping	012049000007P	012049000007P	1
21	Supporting Board(Condenser)	01795031	01795031	1
22	Motor Support Sub-Assy	01705067	01705067	1
23	Fan Motor	1501506402	1501506402	1
24	Axial Flow Fan	10335008	10335008	1
25	Left Side Plate	01305093P	01305093P	1
26	left handle	26233053	26233053	1
27	Electric Box Assy	100002061454	100002061457	1
28	Wire Clamp	71010102	71010102	1
29	Terminal Board	422000060009	422000060009	1
30	Electric Box	20115003	20115003	1
31	Radiator	4901521502	4901521502	1
32	Main Board	300027060182	300027060184	1
33	Insulated Board (Cover of Electric Box)	20113003	20113003	1
34	Temperature Sensor	3900030902	3900030902	1
35	Electric Expansion Valve Sub-Assy	030174000049	030174000049	1

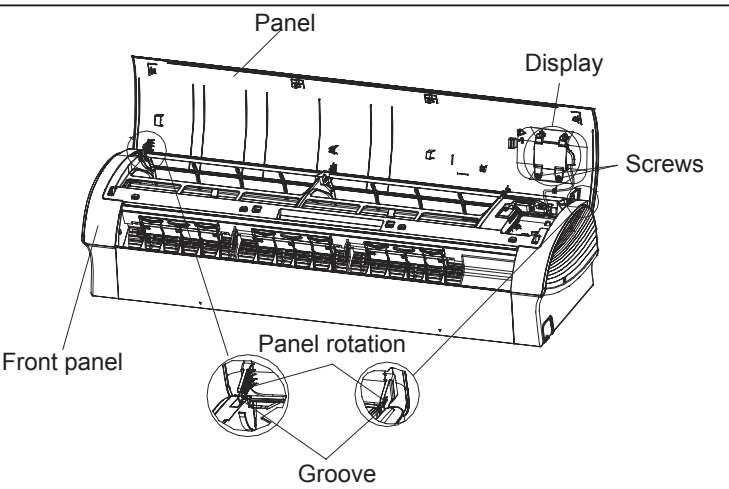
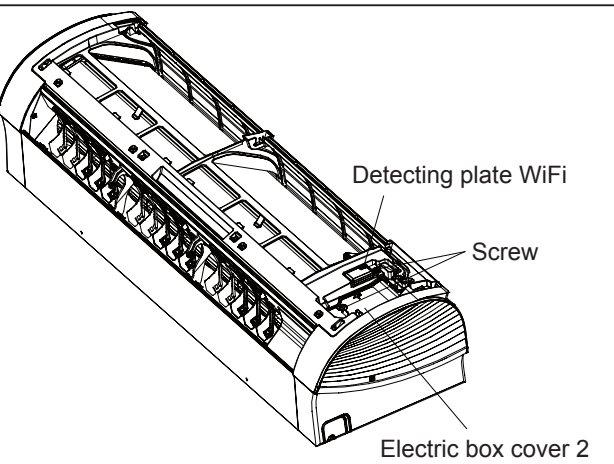
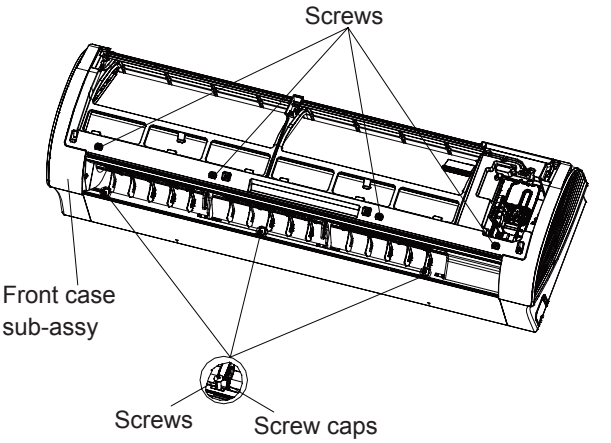
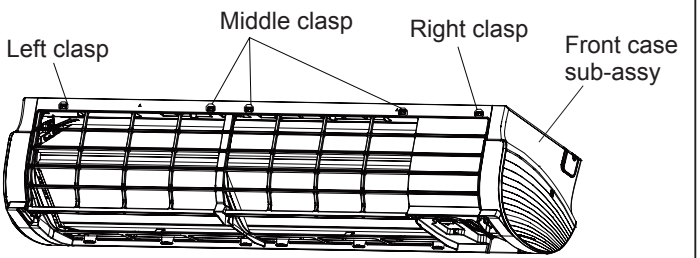
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11. Removal Procedure

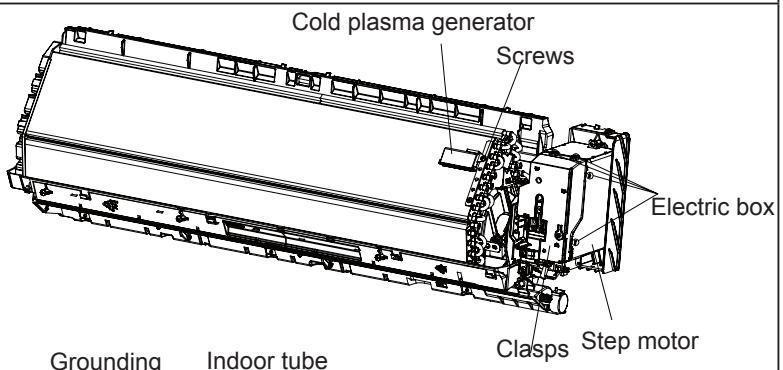
11.1 Removal Procedure of Indoor Unit

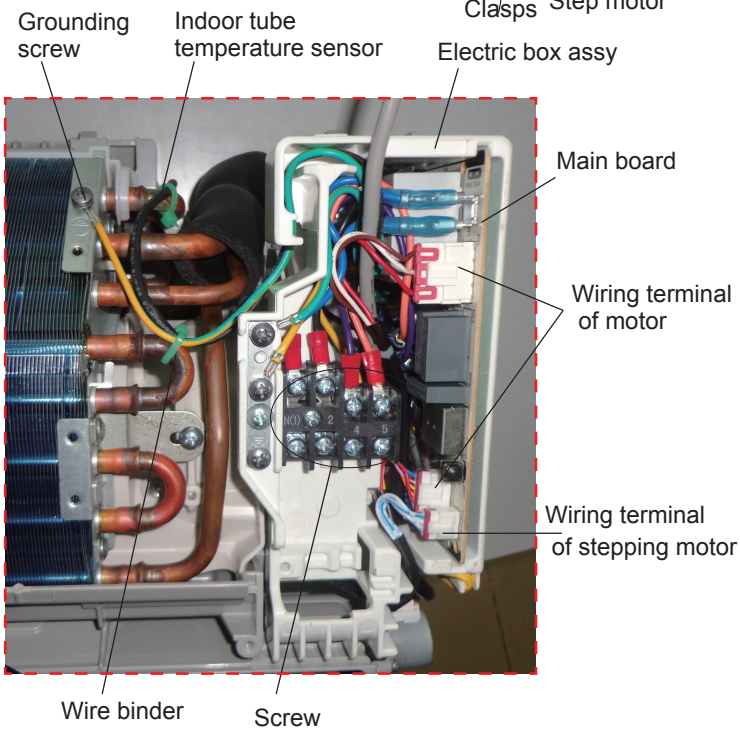
Caution: discharge the refrigerant completely before removal.

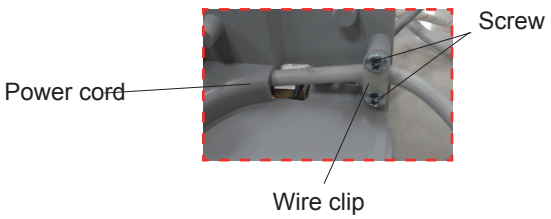
Step	Procedure	
1. Remove filter		
a	Open the panel.	
b	Loosen the clasp shown in the fig and then pull the left filter and right filer outwards to remove them.	
2. Remove horizontal louver		
	Push out the axile bush on horizontal louver. Bend the horizontal louver with hand and then separate the horizontal louver from the crankshaft of step motor to remove it.	

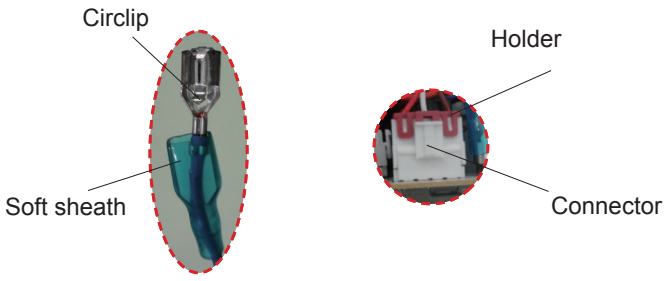
Step	Procedure
3. Remove panel	
	Open the front panel; separate the panel rotation shaft from the groove fixing the front panel and then removes the front panel. Note: The display of some models is fixed on the panel; unscrew the screws fixing the display on the panel before removing the panel.
4. Remove electric box cover 2 and detecting plate(WIFI)	
	Remove the screws on the electric box cover 2 and detecting plate(WIFI), to remove the electric box cover 2 and detecting plate(WIFI).
5. Remove front case sub-assy	
a	Remove the screws fixing front case. Note: (1) Open the screw caps before removing the screws around the air outlet. (2) The quantity of screws fixing the front case sub-assy is different for different models.
b	Loosen the clasps at left, middle and right sides of front case. Life the front case sub-assy upwards to remove it.
	

Step	Procedure
6. Remove electric box assy	
a	Loosen the connection clasps between Cold plasma generator and electric box, and then remove the cold plasma generator.
b	① Cut off the wire binder and pull out the indoor tube temperature sensor. ② Screw off one grounding screw. ③ Remove the wiring terminals of motor andstepping motor. ④ Remove the electric box assy. ⑤ Screw off the screws that are locking each.
c	Rotate the electric box assy. Twist off the screws that are locking the wire clip and loosen the power cord. Remove the wiring terminal of power cord. Lift up the main board and take it off.
	Instruction: Some wiring terminal of this product is with lock catch and other devices. The pulling method is as below: 1.Remove the soft sheath for some terminals at first, hold the circlip and then pull out the terminals. 2.Pull out the holder for some terminals at first (holder is not available for some wiring terminal), hold the connector and then pull the terminal.

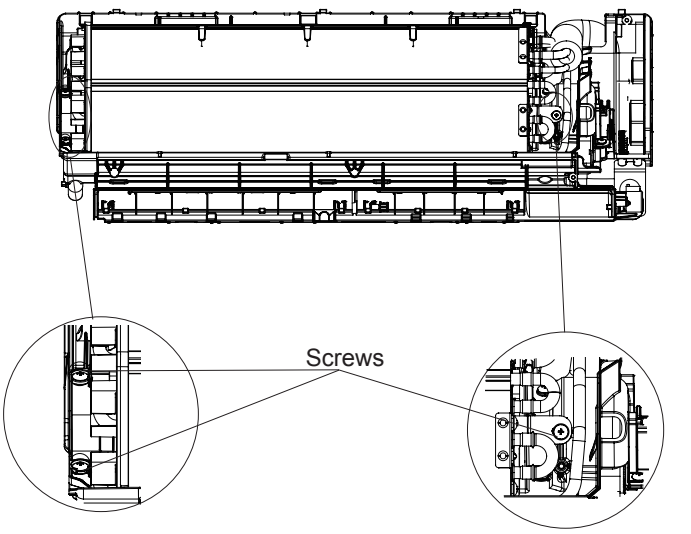


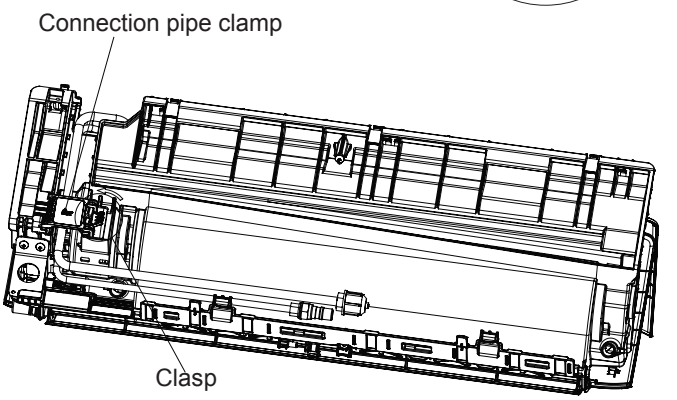


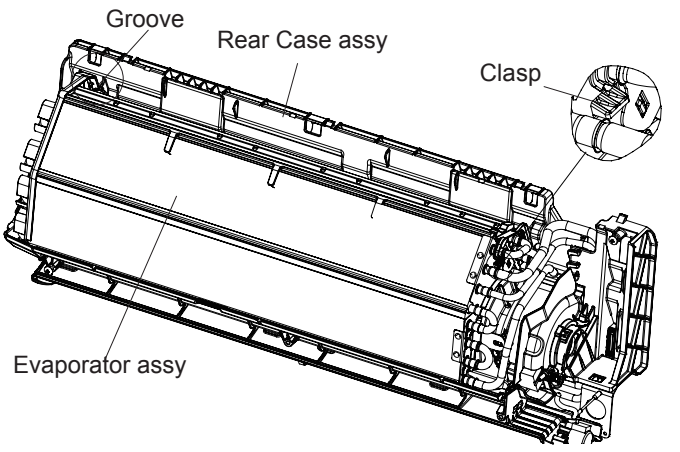


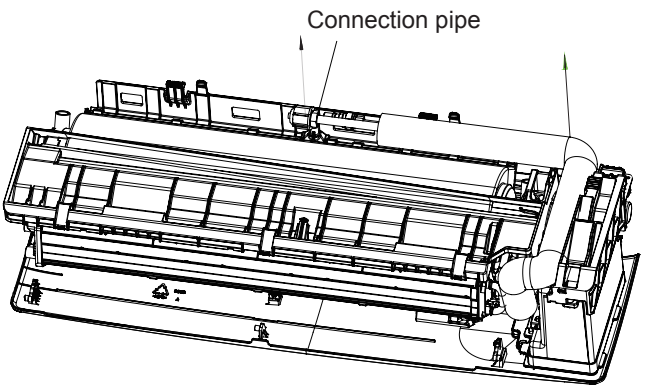


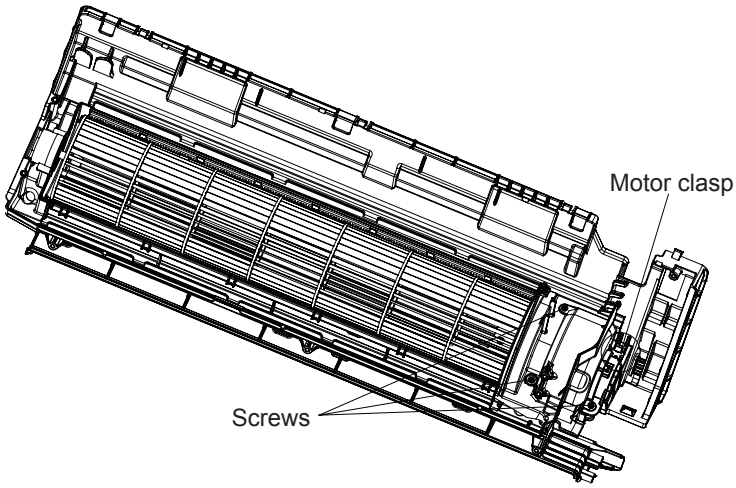
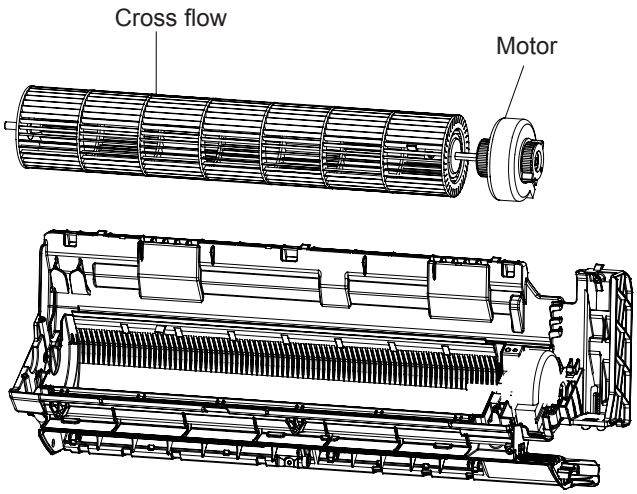
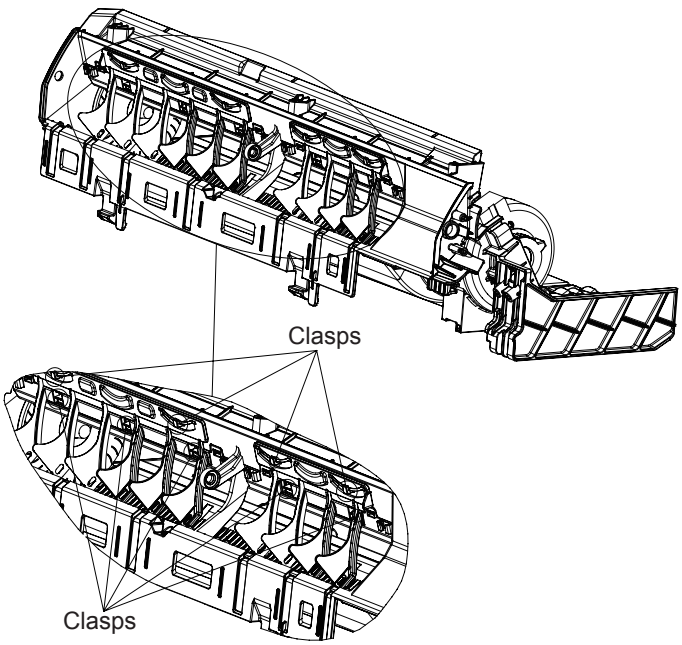
Step	Procedure
7. Remove evaporator assy	
a	Remove 3 screws fixing evaporator assy.
b	At the back of the unit, Loosen the clasp,connection pipe clamp and then remove the connection pipe clamp.
c	First remove the left side of evaporator from the groove of bottom shell and then remove the right side from the clasp on the bottom shell.
d	Adjust the position of connection pipe on evaporator slightly and then lift the evaporator upwards to remove it.





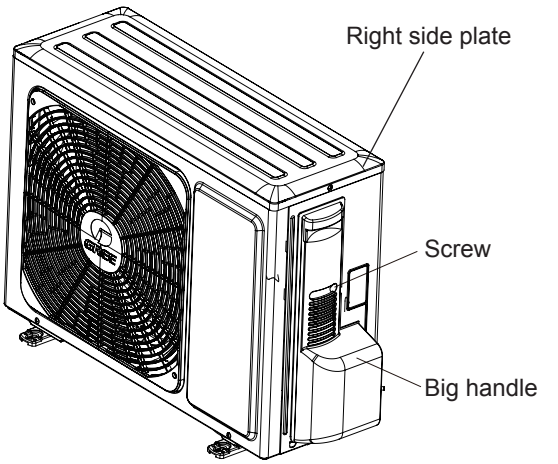
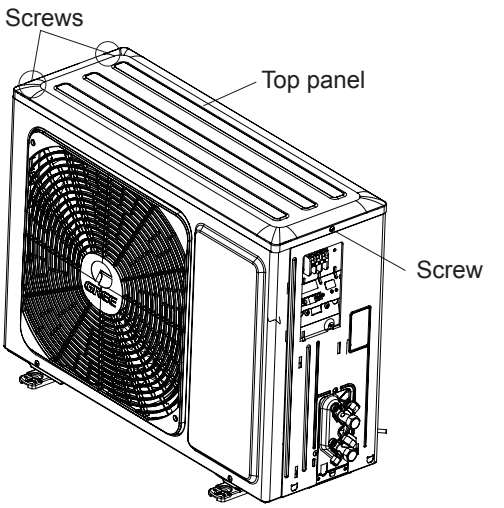
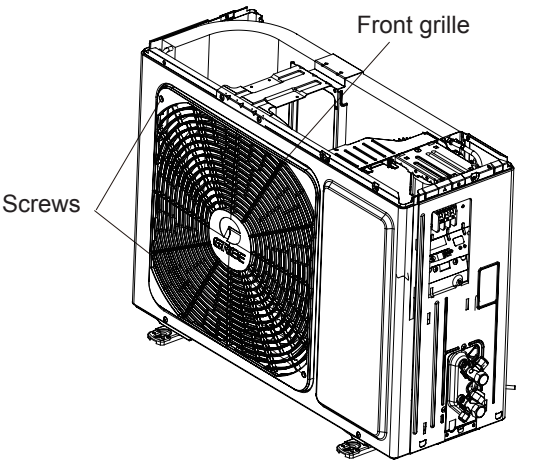


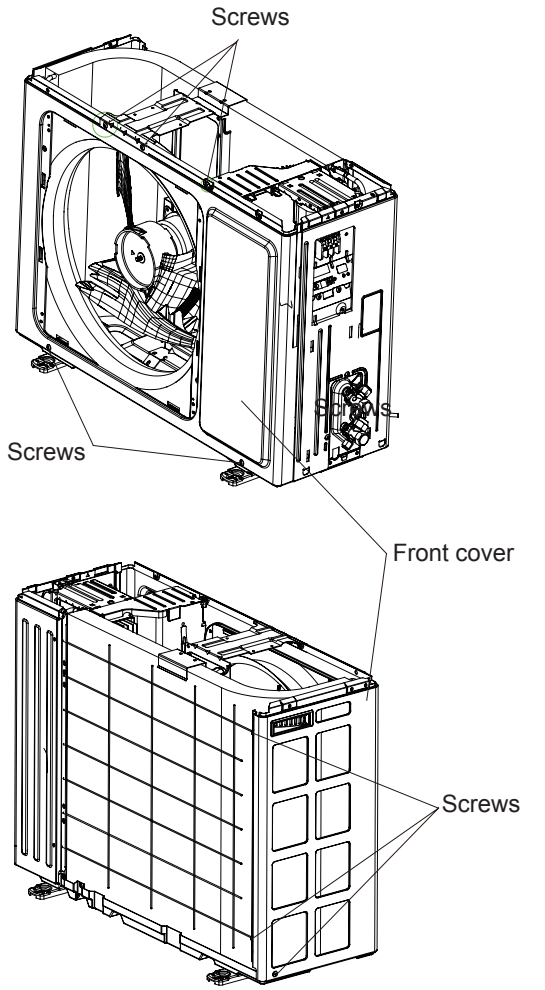
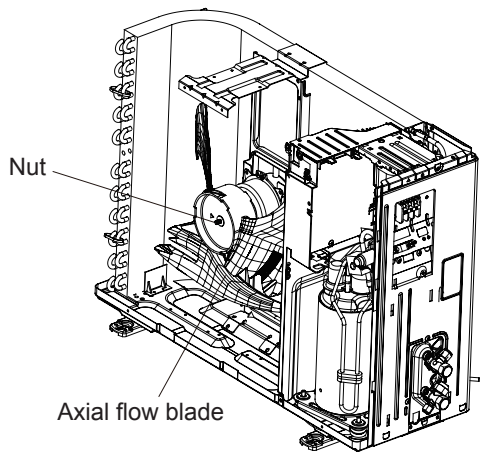


Step	Procedure
8. Remove motor and cross flow blade	
a Remove 3 screws fixing motor clamp and then remove the motor clamp.	
b Remove the at the connection place of cross flow blade and motor; lift the motor and cross flow blade upwards to remove them.	
9. Remove vertical louver	
Loosen the connection clasps between vertical louver and bottom case to remove vertical louver.	

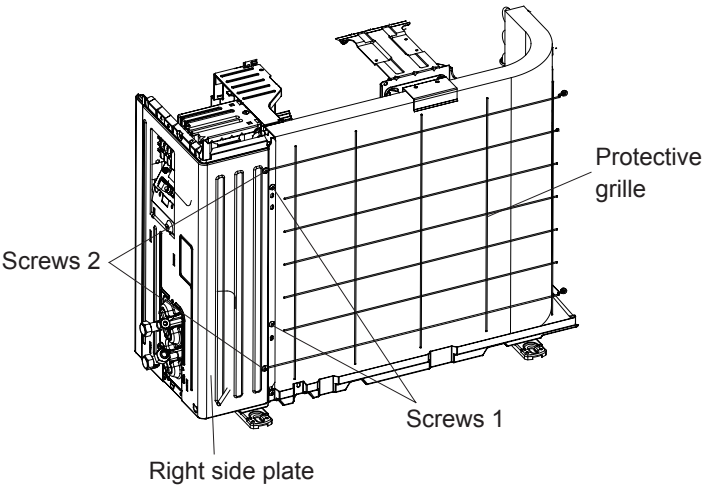
11.2 Removal Procedure of Outdoor Unit

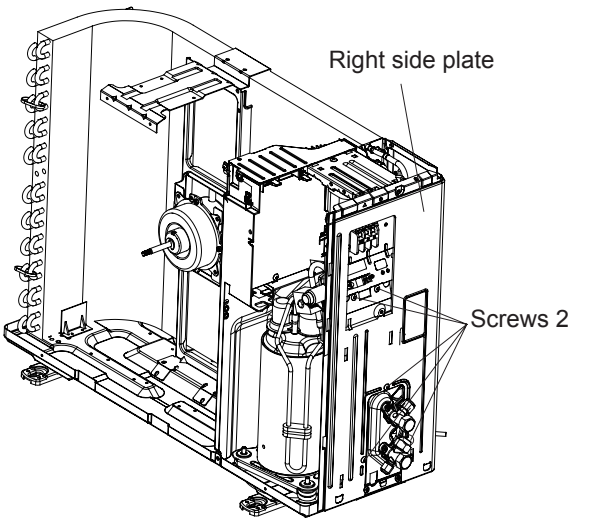
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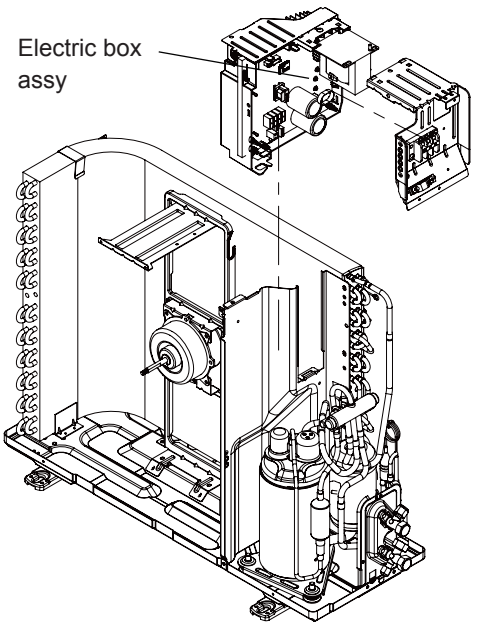
Step	Procedure	
1. Remove big handle		
	Remove the screw fixing big handle; slide out the big handle upwards to make the clasp of big handle separate from the groove of right side plate, and then remove the big handle.	
2. Remove top panel		
	Remove the screws fixing top panel and then remove the top panel.	
3. Remove front grille		
	Remove connection screws between the front grille and the front panel. Then remove the front grille.	

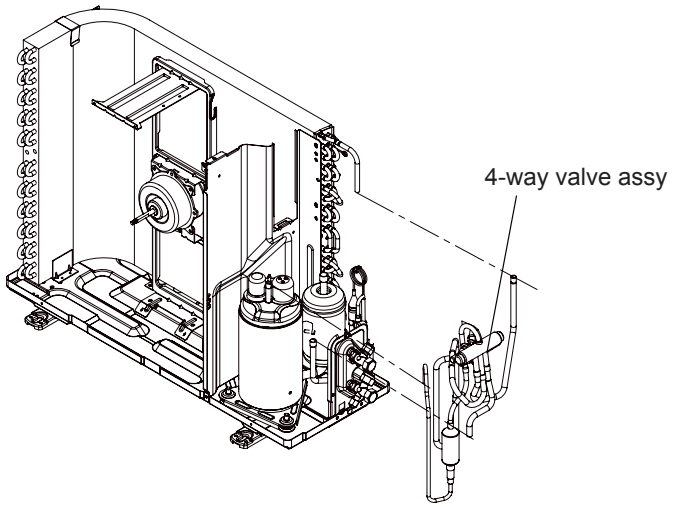
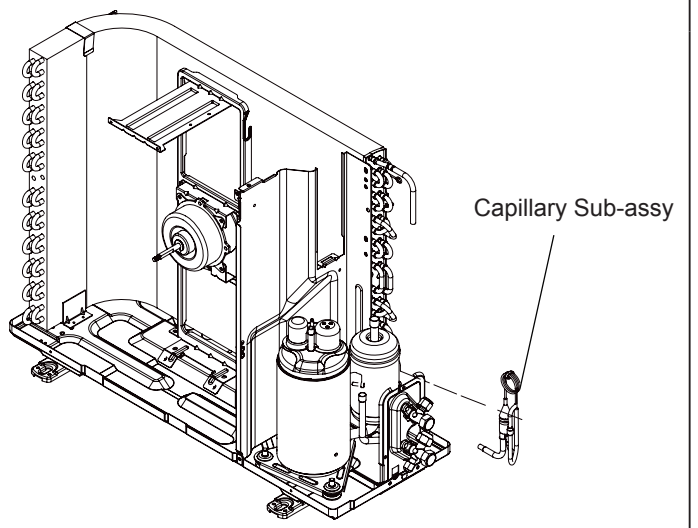
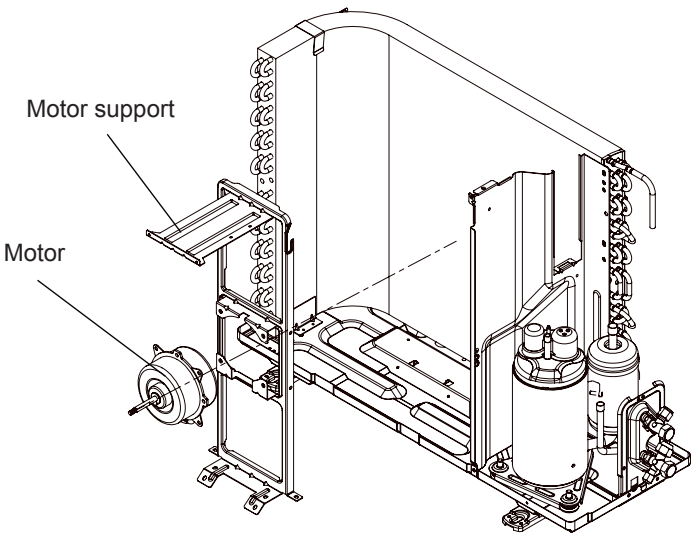
Step	Procedure
4. Remove the front cover Screw off the screws that are locking the front cover. Then take it off.	
5. Remove axial flow blade Remove the nut fixing axial flow blade and then remove the axial flow blade.	

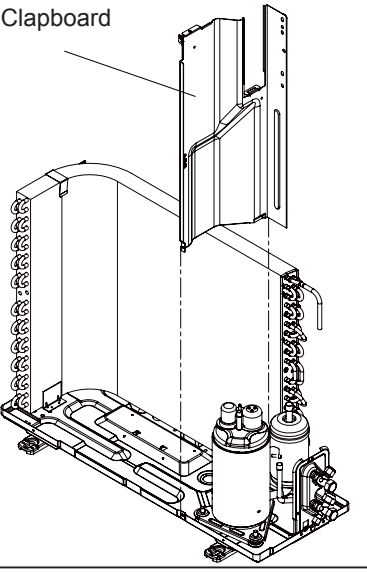
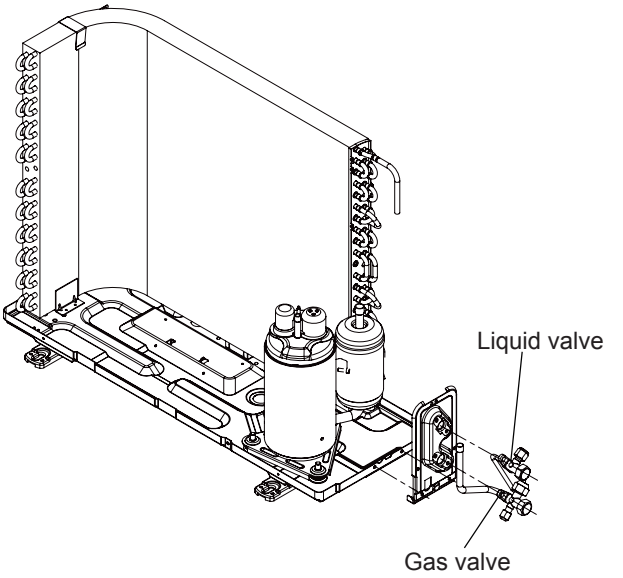
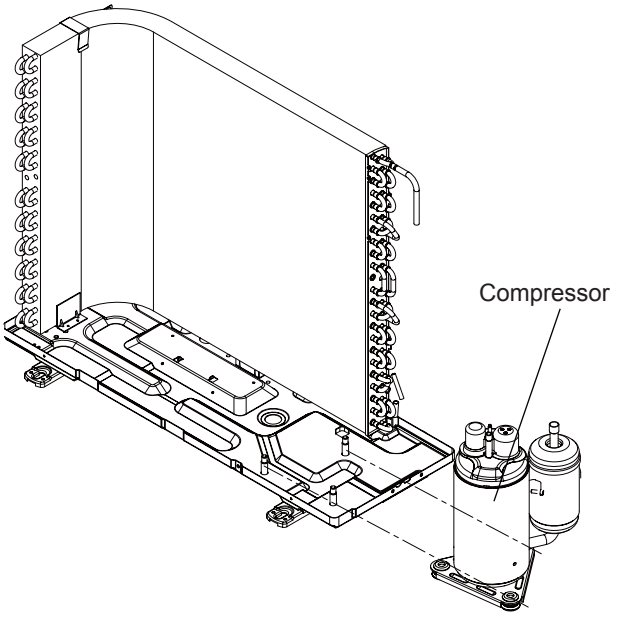
Step	Procedure
6. Remove protective grille and right side plate	
	Remove the screws 1 fixing protective grille and then remove the protective grille. Remove the screws 2 fixing right side plate and then remove the right side plate.
7. Remove electric box assy	
	Remove the screws fixing electric box assy ; pull out each wiring terminal; lift the electric box assy upwards to remove it. Note: When pulling out the wiring terminal, pay attention to loose the clasp and dont pull it so hard.



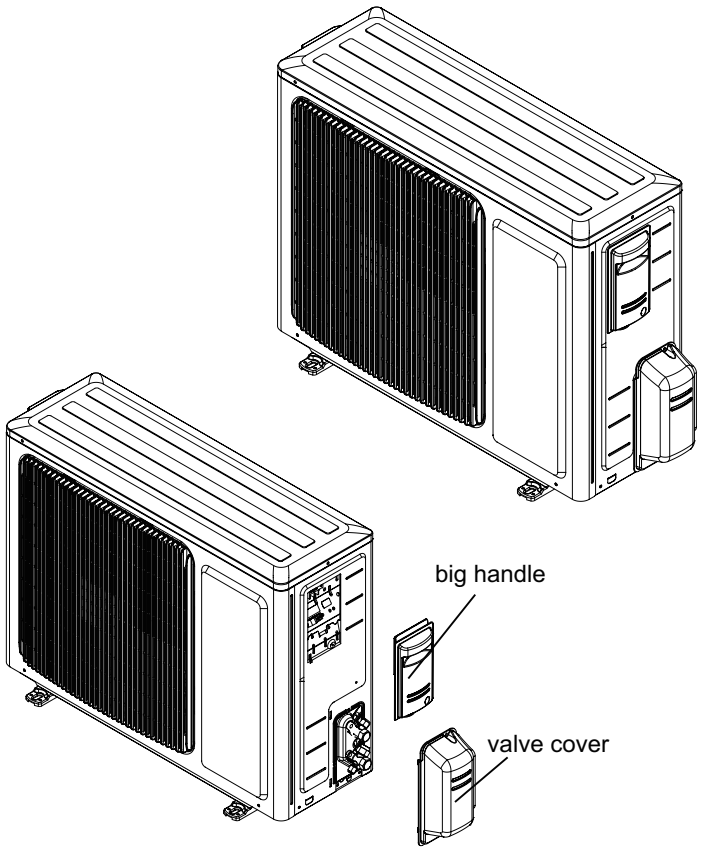
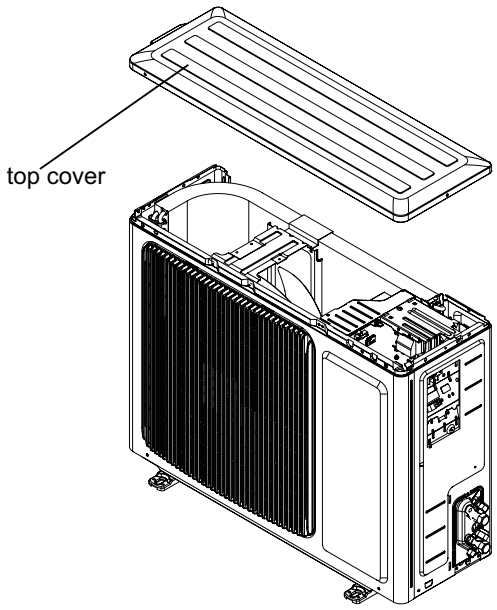


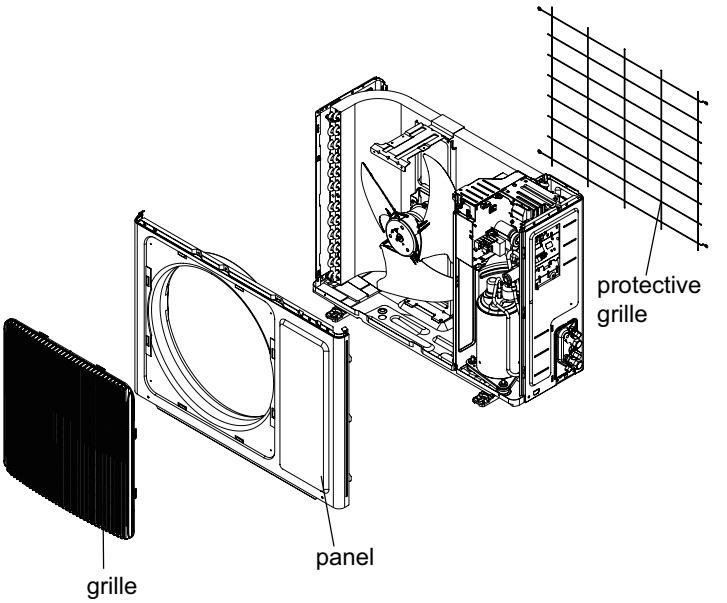
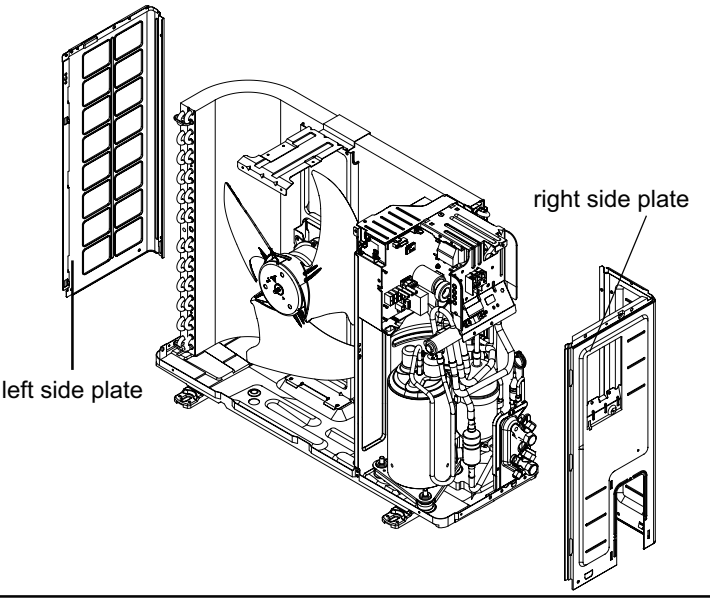
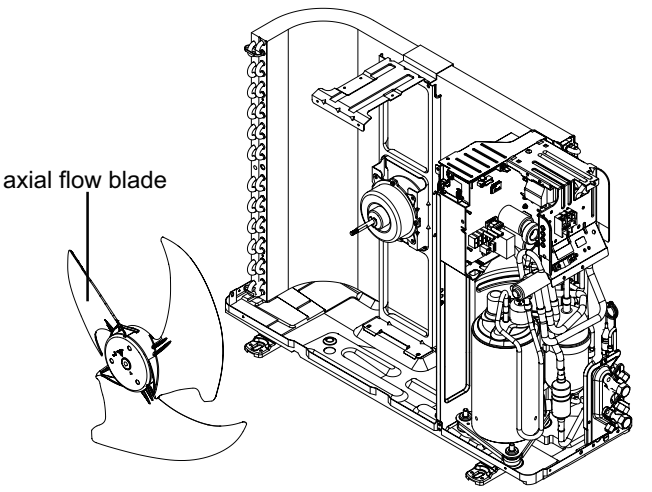


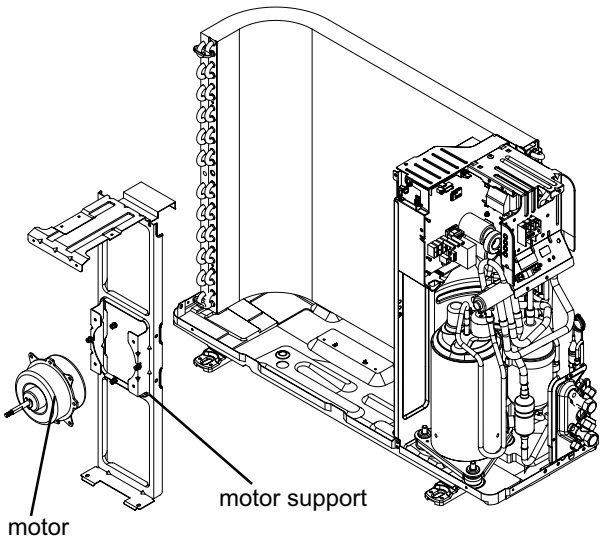
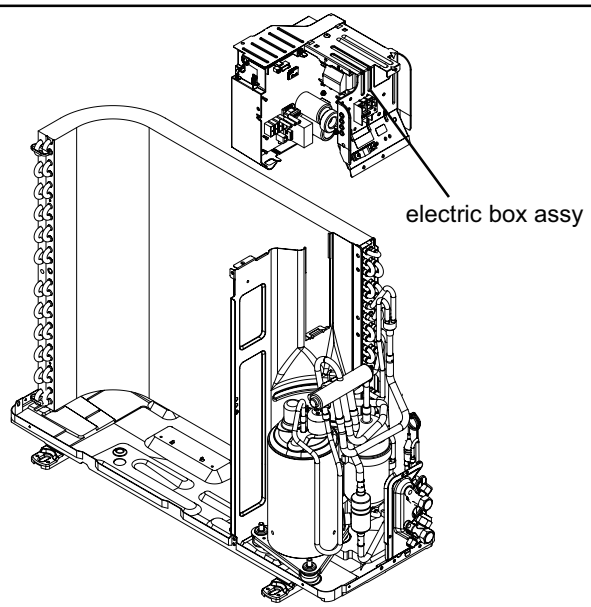
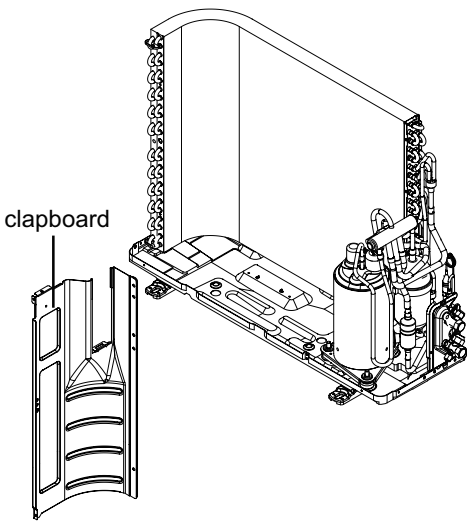
Step	Procedure
8. Remove 4-way valve assy	
Unsolder the spot weld of 4-way valve assy, compressor and condenser, and then remove the 4-way valve assy . Note: When unsoldering the spot weld, wrap the 4-way valve with wet cloth completely to avoid damaging the valve due to high temperature.	
9. Remove capillary sub-assy	
Unsolder weld point of capillary Sub-assy,valve and outlet pipe of condensator. Thenremove the capillary Sub-assy. Do not blockthe capillary when unsoldering it. (Note: be-fore unsoldering,discharge refrigerantscompletely)	
10. Remove motor and motor support	
Remove the 4 tapping screws fixing the motor. Pull out the lead-out wire and remove themotor. Remove the 2 tapping screws fixingthe motor support. Lift motor support to re-move it.	

Step	Procedure
11. Remove clapboard sub-assy	
Loosen the screws of the Clapboard Sub-Assy . The Clapboard Sub-Assy has a hook on thelower side. Lift and pull the Clapboard Sub-Assyto remove.	
12. Remove Compressor	
Remove the 2 screws fixing the gas valve. Unsolder the welding spot connecting gas valveand air return pipe and remove the gas valve.(Note: it is necessary to warp the gas valve whenunsoldering the welding spot.) Remove the 2screws fixing liquid valve. Unsolder the weld-ing spot connecting liquid valve and remove theliquid valve.	
Remove the 3 footing screws of the compressorand remove the compressor.	

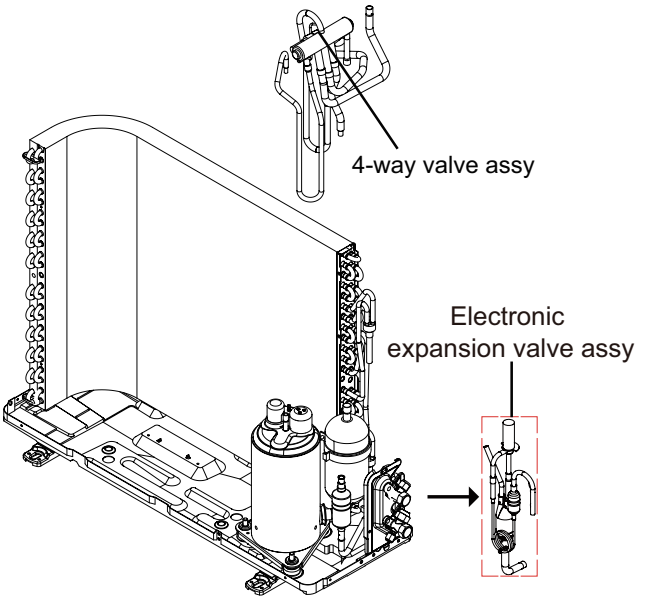
12K

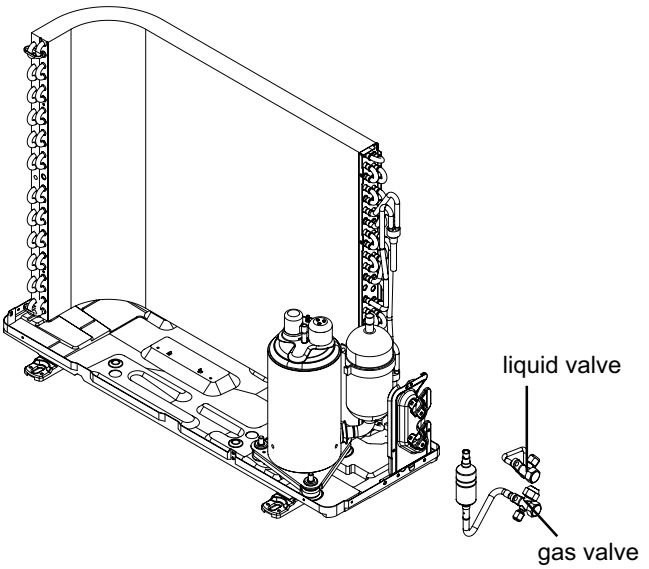
Steps	Procedure	
1.Remove big handle		
	Before disassamble. Remove the screws fixing big handle、valve cover and then remove them.	
2. Remove top cover		
	Remove the screws fixing top panel and then remove the top panel.	

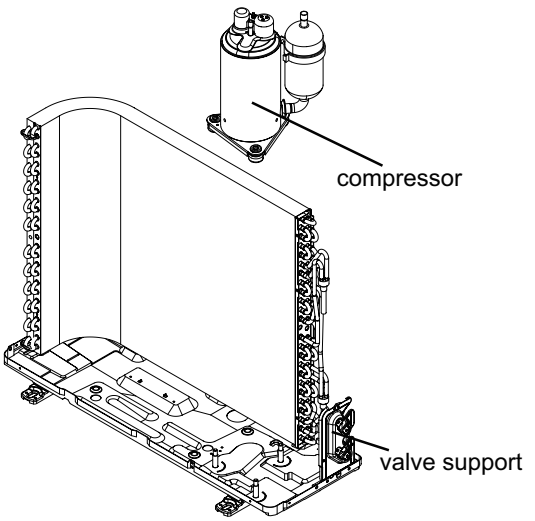
Step	Procedure
3.Remove grille 、 protective grille and front panel	
Remove connection screws between the front grille and the front panel. Then remove the front grille. Remove connection screws connecting the front panel with the chassis and the motor support, and then remove the front panel. Remove the screws fixing protective grille and then remove the protective grille.	
4.Remove right side plate、left side plate	
Remove the screws fixing right side plate、left side plate and then remove them.	
5.Remove axial flow blade	
Remove the nut fixing the blade and then remove the axial flow blade.	

Step	Procedure
6.Remove motor and motor support	
	Remove the screws fixing motor and then remove the motor. Remove the screws fixing motor support and then remove the motor support.
	
7.Remove electric box assy	
	Remove the screws fixing electric box assy; cut off the tieline; pull out each wiring terminal; lift the electric box assy upwards to remove it. Note: When pulling out the wiring terminal, pay attention to loose the clasp and don't pull it so hard.
	
8.Remove clapboard	
	Remove the screws fixing clapboard and then remove the clapboard.
	

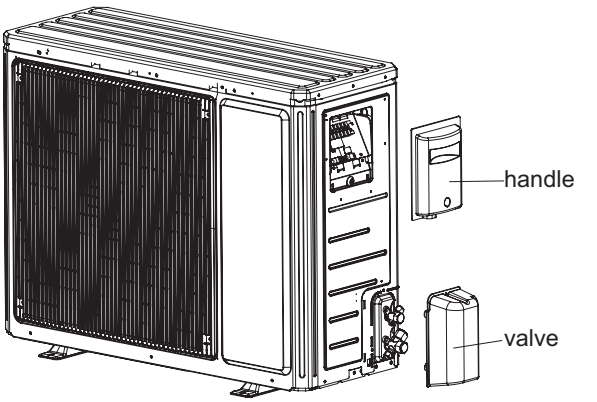
Step	Procedure
9.Remove 4-way valve assy and electronic expansion valve assy	
	Unsolder the welding joints connecting the 4-way valve assy with electronic expansion assy, compressor and condenser; remove the 4-way valve. Note: Before unsoldering the welding joint, wrap the 4-way valve with a wet cloth completely to avoid damage to the valve caused by high temperature. Unsolder weld point of electronic expansionassy, valve assy and outlet pipe of condensator. Then remove the electronic expansion assy Do not block the electronic expansion assy before when unso-ldering it. (Note: before unsoldering,discharge refrigerants completely)
10.Remove liquid valve and gas valve	
	Unsolder the welding joint connecting the valve with capillary and condenser; unsolder the welding joint connecting the gas valve and air-return pipe; remove the 2 screws fixing the gas valve to remove the gas valve. Unsolder the welding joint connecting the liquid valve and Y-shaped pipe; remove the 2 screws fixing the liquid valve to remove the liquid valve. Note: Before unsoldering the welding joint, wrap the gas valve with a wet cloth completely to avoid damage to the valve caused by high temperature.
11.Remove compressor	
	Remove the 3 footing screws of the compressor and remove the compressor. Remove the screws fixing valve support and then remove the valve support.

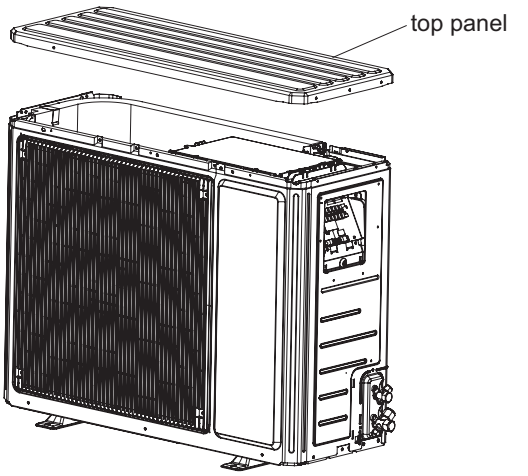


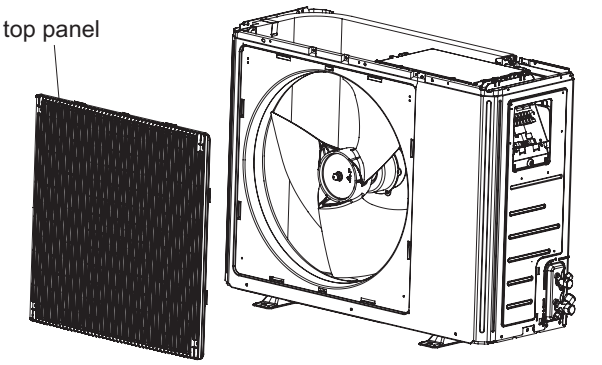


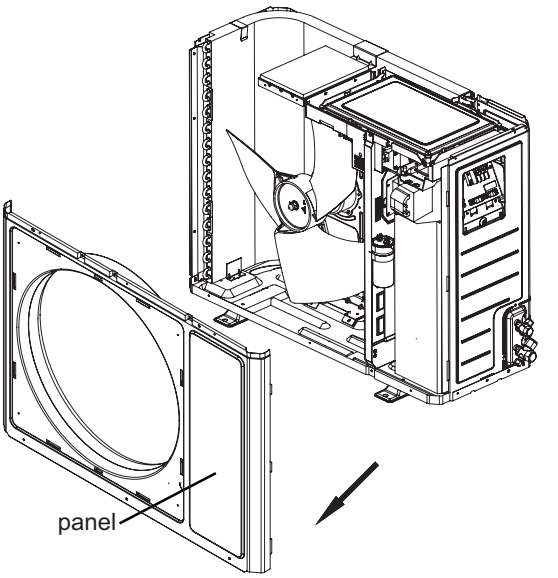
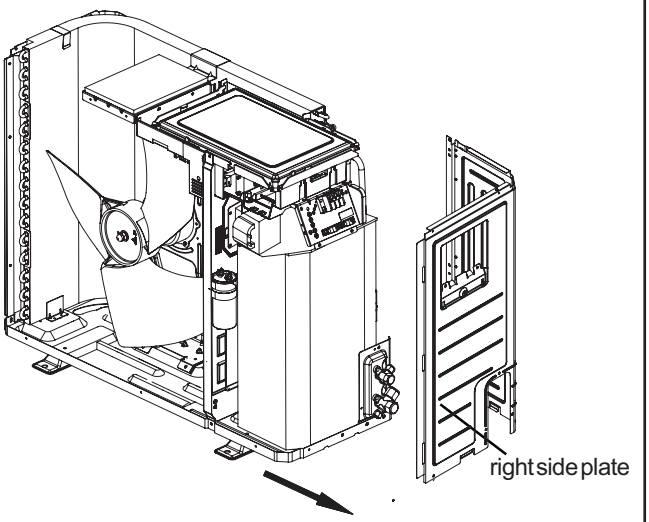
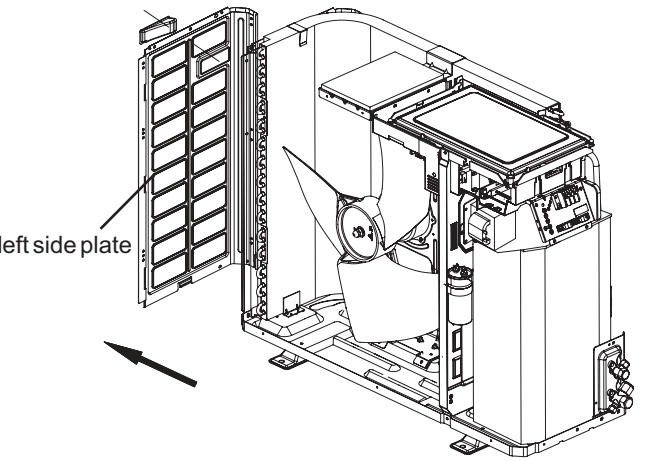


Steps	Procedure
1. Remove top panel	
a	Twist off the screws used for fixing the handle and valve cover, pull the handle and valve cover up ward to remove it.
b	Remove the 3 screws connecting the top panel with the front panel and the right side plate, and then remove the top panel.
2. Remove grille , panel and rear grill	
a	Remove the 2 screws connecting the grille and the panel, and then remove the grille.

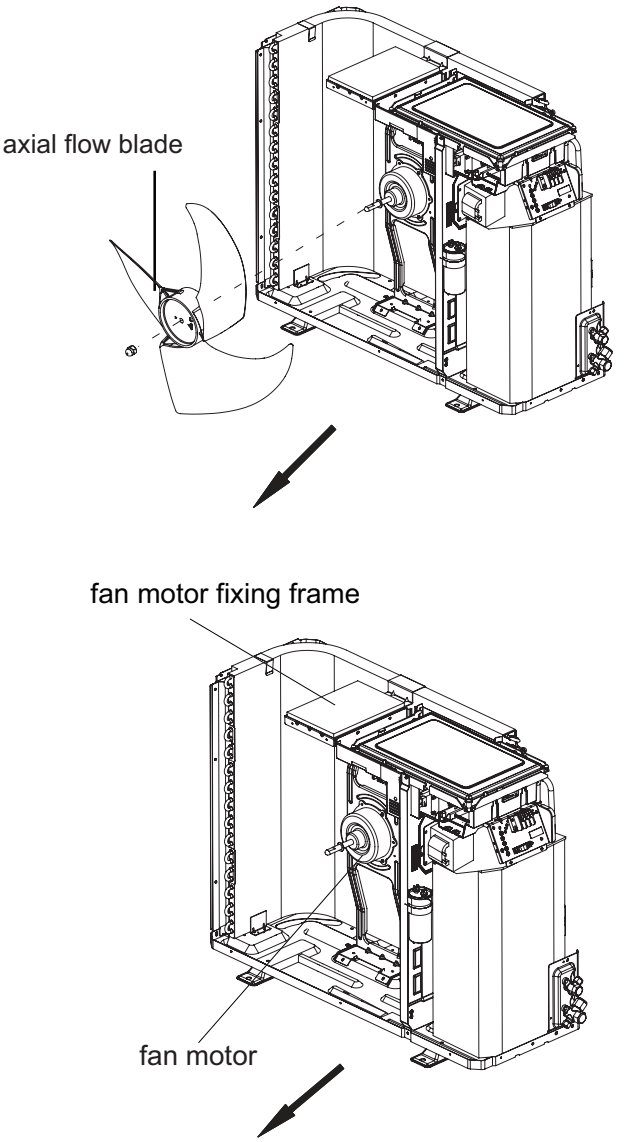


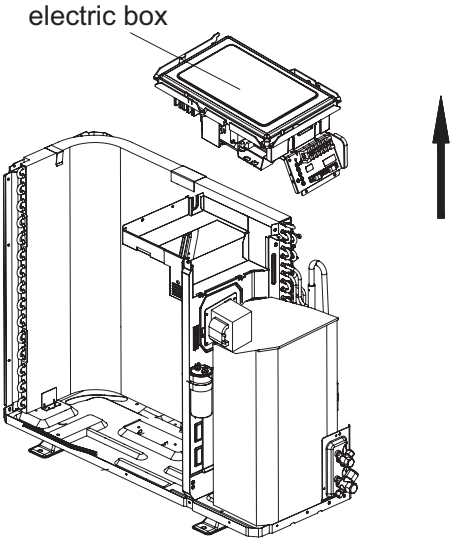


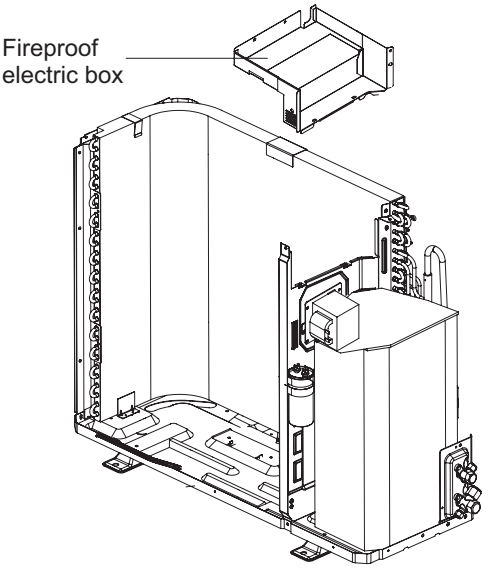
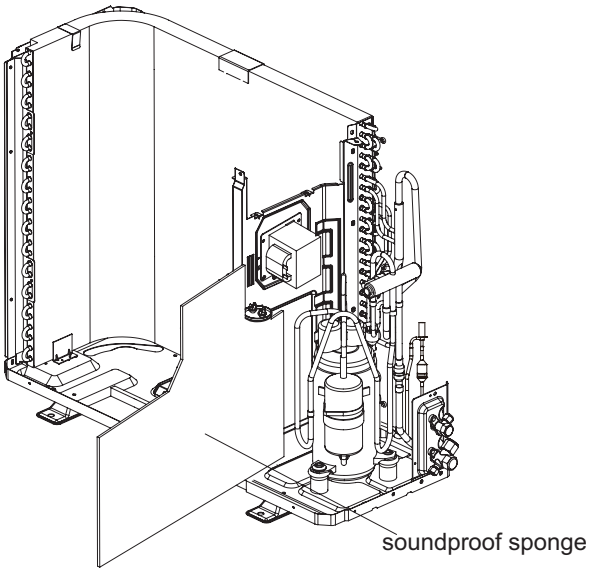
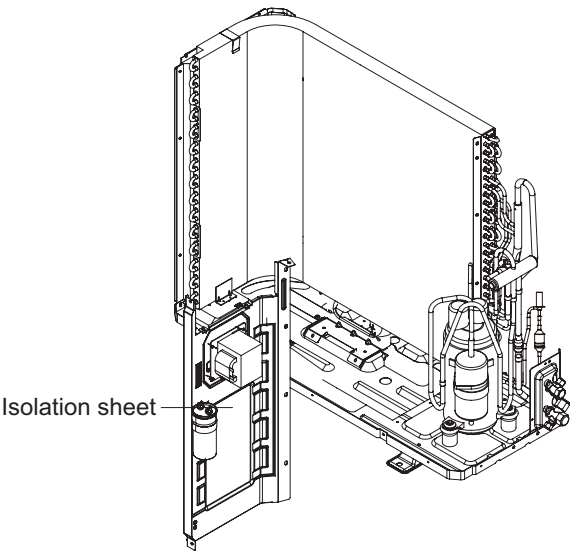


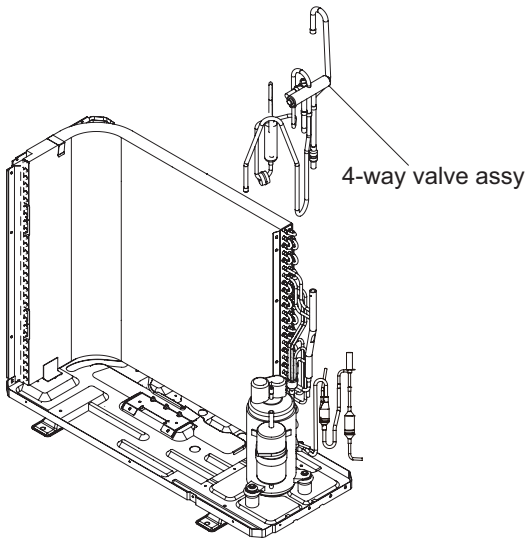
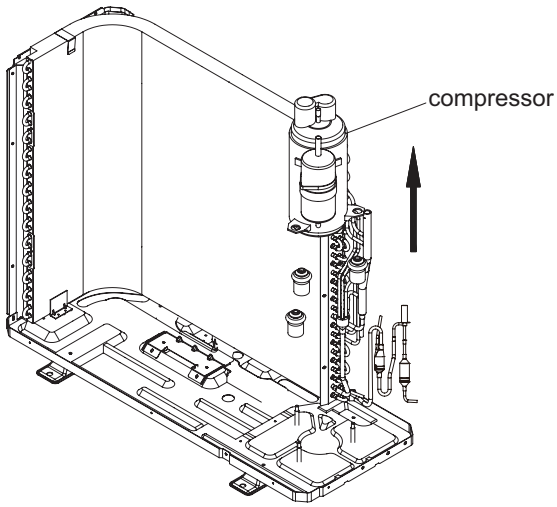
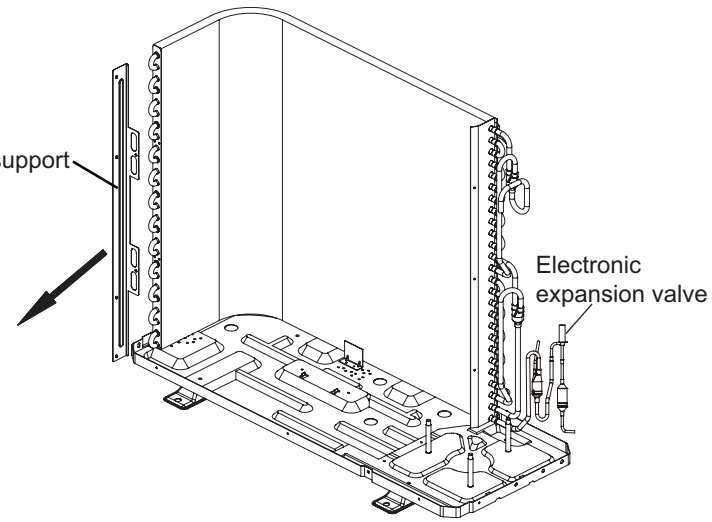
Steps	Procedure	
b	Remove the 5 screws connecting the panel with the chassis and the motor support, and then remove the panel.	
3. Remove left side plate and right side plate		
a	Remove the screws connecting the right side plate with the chassis, the valve support and the electric box, and then remove the right side plate assy.	
b	Remove the screws connecting the left side plate and the chassis, and then remove the left side plate assy.	

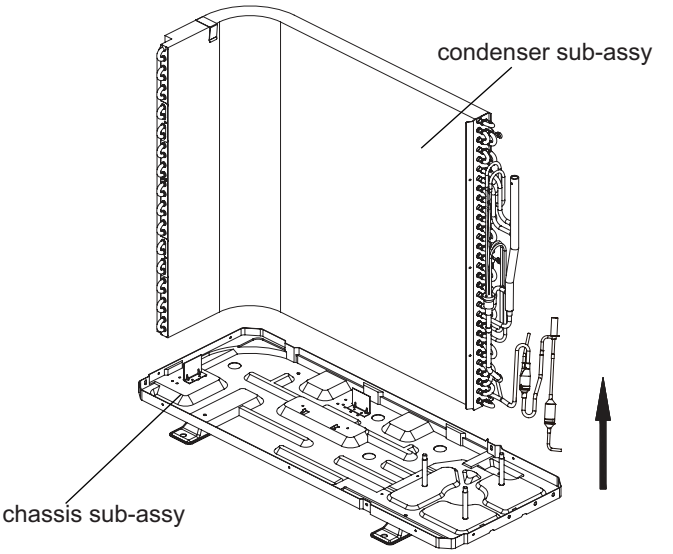
Steps	Procedure
4. Remove fan motor	
a	Remove the nuts fixing the blade and then remove the axial flow blade.
b	Remove the 4 tapping screws fixing the motor; disconnect the leading wire insert of the motor and then remove the motor. Remove the 2 tapping screws fixing the motor support and then pull the motor support upwards to remove it.
5. Remove electric box	
	Remove the screws fixing the electric box sub-assy; loosen the wire bundle; pull out the wiring terminals and then pull the electric box upwards to remove it.





Steps	Procedure
6.Remove Fireproof electric box and soundproof sponge	
a Twist off the screws on fireproof electric box and then remove the fireproof electric box.	
b Since the piping ports on the soundproof sponge are torn easily, remove the soundproof sponge carefully.	
7. Remove Isolation sheet	
Remove the 3 screws fixing the isolation sheet and then remove the Isolation sheet.	

Steps	Procedure
8. Remove 4-way valve assy	
	Discharge the refrigerant completely;unsolder the pipelines connecting the compressor and the condenser assy,and then remove the 4-way valve assy.
	
9. Remove compressor	
	Remove the 3 foot nuts fixing the compressor and then remove the compressor.
	
10.Remove condenser sub-assy	
a	Remove the screws connecting the support (condenser) and condenser assy,and then remove the support(condenser).
	

Steps	Procedure	
b	Dissemble the chassis sub-assy and condenser sub-assy.	

Appendix:

Appendix 1: Reference Sheet of Celsius and Fahrenheit

Conversion formula for Fahrenheit degree and Celsius degree: Tf=Tcx1.8+32

Set temperature

Fahrenheit display temperature (℉)	Fahrenheit (℉)	Celsius (℃)		Fahrenheit display temperature (℉)	Fahrenheit (℉)	Celsius (℃)		Fahrenheit display temperature (℉)	Fahrenheit (℉)	Celsius (℃)
61	60.8	16		69/70	69.8	21		78/79	78.8	26
62/63	62.6	17		71/72	71.6	22		80/81	80.6	27
64/65	64.4	18		73/74	73.4	23		82/83	82.4	28
66/67	66.2	19		75/76	75.2	24		84/85	84.2	29
68	68	20		77	77	25		86	86	30

Ambient temperature

Fahrenheit display temperature (℉)	Fahrenheit (℉)	Celsius (℃)		Fahrenheit display temperature (℉)	Fahrenheit (℉)	Celsius (℃)		Fahrenheit display temperature (℉)	Fahrenheit (℉)	Celsius (℃)
32/33	32	0		55/56	55.4	13		79/80	78.8	26
34/35	33.8	1		57/58	57.2	14		81	80.6	27
36	35.6	2		59/60	59	15		82/83	82.4	28
37/38	37.4	3		61/62	60.8	16		84/85	84.2	29
39/40	39.2	4		63	62.6	17		86/87	86	30
41/42	41	5		64/65	64.4	18		88/89	87.8	31
43/44	42.8	6		66/67	66.2	19		90	89.6	32
45	44.6	7		68/69	68	20		91/92	91.4	33
46/47	46.4	8		70/71	69.8	21		93/94	93.2	34
48/49	48.2	9		72	71.6	22		95/96	95	35
50/51	50	10		73/74	73.4	23		97/98	96.8	36
52/53	51.8	11		75/76	75.2	24		99	98.6	37
54	53.6	12		77/78	77	25				

Appendix 2: Configuration of Connection Pipe

1.Standard length of connection pipe

● 5m, 7.5m, 8m.

2.Min length of connection pipeFor the unit with standard connection pipe of 5m, there is no limitation for themin length of connection pipe. For the unit with standard connection pipe of 7.5m and 8m, the min length of connection pipe is 3m.

3.Max length of connection pipe（More details please refer to the specifications）

4.The additional refrigerant oil and refrigerant charging required after prolonging connection pipe

● After the length of connection pipe is prolonged for 10m at the basis of standard length, you should add 5ml of refrigerant oil for each additional 5m of connection pipe.

● The calculation method of additional refrigerant charging amount (on the basis of liquid pipe):

● Basing on the length of standard pipe, add refrigerant according to the requirement as shown in the table. The additional refrigerant charging amount per meter is different according to the diameter of liquid pipe. See Sheet 2.

● Additional refrigerant charging amount = prolonged length of liquid pipe X additional refrigerant charging amount per meter

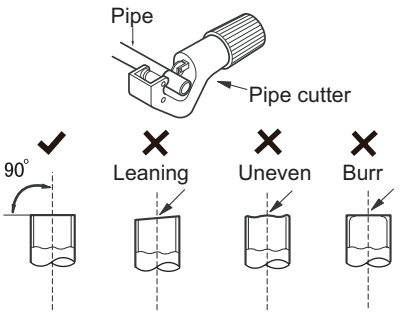
Additional refrigerant charging amount for R32				
Diameter of connection pipe		Indoor unit throttl	Outdoor unit throttle	
Liquid pipe	Gas pipe	Cooling only,cooling and heating(g / m)	Cooling only(g / m)	Cooling and heating(g / m)
Φ6	Φ9.5 or Φ12	16	12	16
Φ6 or Φ9.5	Φ16 or Φ19	40	12	50
Φ12	Φ19 or Φ22.2	80	24	96
Φ16	Φ25.4 or Φ31.8	136	48	96
Φ19	/	200	200	200
Φ22.2	/	280	280	280

Note: The additional refrigerant charging amount in Sheet 2 is recommendedvalue, not compulsory.

Appendix 3: Pipe Expanding Method

⚠ **Note:**

Improper pipe expanding is the main cause of refrigerant leakage.Please expand the pipe according to the following steps:

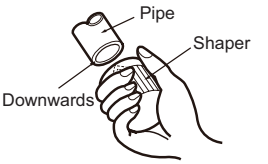


A:Cut the pip

- Confirm the pipe length according to the distance of indoor unit and outdoor unit.
- Cut the required pipe with pipe cutter.

B:Remove the burrs

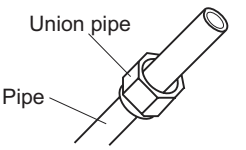
- Remove the burrs with shaper and prevent the burrs from getting into the pipe.



C:Put on suitable insulating pipe

D:Put on the union nut

- Remove the union nut on the indoor connection pipe and outdoor valve; install the union nut on the pipe.



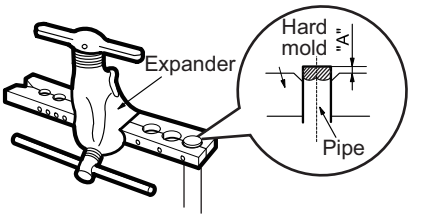
E:Expand the port

- Expand the port with expander.

⚠ **Note:**

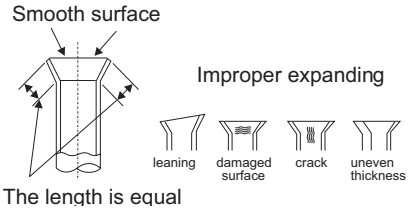
- "A" is different according to the diameter, please refer to the sheet below:

Outer diameter(mm)	A(mm)	
	Max	Min
Φ6 - 6.35 (1/4")	1.3	0.7
Φ9.52 (3/8")	1.6	1.0
Φ12 - 12.70 (1/2")	1.8	1.0
Φ16 - 15.88 (5/8")	2.4	2.2



F:Inspection

- Check the quality of expanding port. If there is any blemish, expand the port again according to the steps above.



Appendix 4: List of Resistance for Temperature Sensor

Resistance Table of Ambient Temperature Sensor for Indoor and Outdoor (15K)

Temp(°C)	Resistance(kΩ)		Temp(°C)	Resistance(kΩ)		Temp(°C)	Resistance(kΩ)		Temp(°C)	Resistance(kΩ)
-19	138.1		20	18.75		59	3.848		98	1.071
-18	128.6		21	17.93		60	3.711		99	1.039
-17	121.6		22	17.14		61	3.579		100	1.009
-16	115		23	16.39		62	3.454		101	0.98
-15	108.7		24	15.68		63	3.333		102	0.952
-14	102.9		25	15		64	3.217		103	0.925
-13	97.4		26	14.36		65	3.105		104	0.898
-12	92.22		27	13.74		66	2.998		105	0.873
-11	87.35		28	13.16		67	2.896		106	0.848
-10	82.75		29	12.6		68	2.797		107	0.825
-9	78.43		30	12.07		69	2.702		108	0.802
-8	74.35		31	11.57		70	2.611		109	0.779
-7	70.5		32	11.09		71	2.523		110	0.758
-6	66.88		33	10.63		72	2.439		111	0.737
-5	63.46		34	10.2		73	2.358		112	0.717
-4	60.23		35	9.779		74	2.28		113	0.697
-3	57.18		36	9.382		75	2.206		114	0.678
-2	54.31		37	9.003		76	2.133		115	0.66
-1	51.59		38	8.642		77	2.064		116	0.642
0	49.02		39	8.297		78	1.997		117	0.625
1	46.6		40	7.967		79	1.933		118	0.608
2	44.31		41	7.653		80	1.871		119	0.592
3	42.14		42	7.352		81	1.811		120	0.577
4	40.09		43	7.065		82	1.754		121	0.561
5	38.15		44	6.791		83	1.699		122	0.547
6	36.32		45	6.529		84	1.645		123	0.532
7	34.58		46	6.278		85	1.594		124	0.519
8	32.94		47	6.038		86	1.544		125	0.505
9	31.38		48	5.809		87	1.497		126	0.492
10	29.9		49	5.589		88	1.451		127	0.48
11	28.51		50	5.379		89	1.408		128	0.467
12	27.18		51	5.197		90	1.363		129	0.456
13	25.92		52	4.986		91	1.322		130	0.444
14	24.73		53	4.802		92	1.282		131	0.433
15	23.6		54	4.625		93	1.244		132	0.422
16	22.53		55	4.456		94	1.207		133	0.412
17	21.51		56	4.294		95	1.171		134	0.401
18	20.54		57	4.139		96	1.136		135	0.391
19	19.63		58	3.99		97	1.103		136	0.382

Resistance Table of Tube Temperature Sensors for Indoor and Outdoor (20K)

Temp(°C)	Resistance(kΩ)		Temp(°C)	Resistance(kΩ)		Temp(°C)	Resistance(kΩ)		Temp(°C)	Resistance(kΩ)
-19	181.4		20	25.01		59	5.13		98	1.427
-18	171.4		21	23.9		60	4.948		99	1.386
-17	162.1		22	22.85		61	4.773		100	1.346
-16	153.3		23	21.85		62	4.605		101	1.307
-15	145		24	20.9		63	4.443		102	1.269
-14	137.2		25	20		64	4.289		103	1.233
-13	129.9		26	19.14		65	4.14		104	1.198
-12	123		27	18.13		66	3.998		105	1.164
-11	116.5		28	17.55		67	3.861		106	1.131
-10	110.3		29	16.8		68	3.729		107	1.099
-9	104.6		30	16.1		69	3.603		108	1.069
-8	99.13		31	15.43		70	3.481		109	1.039
-7	94		32	14.79		71	3.364		110	1.01
-6	89.17		33	14.18		72	3.252		111	0.983
-5	84.61		34	13.59		73	3.144		112	0.956
-4	80.31		35	13.04		74	3.04		113	0.93
-3	76.24		36	12.51		75	2.94		114	0.904
-2	72.41		37	12		76	2.844		115	0.88
-1	68.79		38	11.52		77	2.752		116	0.856
0	65.37		39	11.06		78	2.663		117	0.833
1	62.13		40	10.62		79	2.577		118	0.811
2	59.08		41	10.2		80	2.495		119	0.77
3	56.19		42	9.803		81	2.415		120	0.769
4	53.46		43	9.42		82	2.339		121	0.746
5	50.87		44	9.054		83	2.265		122	0.729
6	48.42		45	8.705		84	2.194		123	0.71
7	46.11		46	8.37		85	2.125		124	0.692
8	43.92		47	8.051		86	2.059		125	0.674
9	41.84		48	7.745		87	1.996		126	0.658
10	39.87		49	7.453		88	1.934		127	0.64
11	38.01		50	7.173		89	1.875		128	0.623
12	36.24		51	6.905		90	1.818		129	0.607
13	34.57		52	6.648		91	1.736		130	0.592
14	32.98		53	6.403		92	1.71		131	0.577
15	31.47		54	6.167		93	1.658		132	0.563
16	30.04		55	5.942		94	1.609		133	0.549
17	28.68		56	5.726		95	1.561		134	0.535
18	27.39		57	5.519		96	1.515		135	0.521
19	26.17		58	5.32		97	1.47		136	0.509

Resistance Table of Discharge Temperature Sensor for Outdoor (50K)

Temp(°C)	Resistance(kΩ)		Temp(°C)	Resistance(kΩ)		Temp(°C)	Resistance(kΩ)		Temp(°C)	Resistance(kΩ)
-29	853.5		10	98		49	18.34		88	4.75
-28	799.8		11	93.42		50	17.65		89	4.61
-27	750		12	89.07		51	16.99		90	4.47
-26	703.8		13	84.95		52	16.36		91	4.33
-25	660.8		14	81.05		53	15.75		92	4.20
-24	620.8		15	77.35		54	15.17		93	4.08
-23	580.6		16	73.83		55	14.62		94	3.96
-22	548.9		17	70.5		56	14.09		95	3.84
-21	516.6		18	67.34		57	13.58		96	3.73
-20	486.5		19	64.33		58	13.09		97	3.62
-19	458.3		20	61.48		59	12.62		98	3.51
-18	432		21	58.77		60	12.17		99	3.41
-17	407.4		22	56.19		61	11.74		100	3.32
-16	384.5		23	53.74		62	11.32		101	3.22
-15	362.9		24	51.41		63	10.93		102	3.13
-14	342.8		25	49.19		64	10.54		103	3.04
-13	323.9		26	47.08		65	10.18		104	2.96
-12	306.2		27	45.07		66	9.83		105	2.87
-11	289.6		28	43.16		67	9.49		106	2.79
-10	274		29	41.34		68	9.17		107	2.72
-9	259.3		30	39.61		69	8.85		108	2.64
-8	245.6		31	37.96		70	8.56		109	2.57
-7	232.6		32	36.38		71	8.27		110	2.50
-6	220.5		33	34.88		72	7.99		111	2.43
-5	209		34	33.45		73	7.73		112	2.37
-4	198.3		35	32.09		74	7.47		113	2.30
-3	199.1		36	30.79		75	7.22		114	2.24
-2	178.5		37	29.54		76	7.00		115	2.18
-1	169.5		38	28.36		77	6.76		116	2.12
0	161		39	27.23		78	6.54		117	2.07
1	153		40	26.15		79	6.33		118	2.02
2	145.4		41	25.11		80	6.13		119	1.96
3	138.3		42	24.13		81	5.93		120	1.91
4	131.5		43	23.19		82	5.75		121	1.86
5	125.1		44	22.29		83	5.57		122	1.82
6	119.1		45	21.43		84	5.39		123	1.77
7	113.4		46	20.6		85	5.22		124	1.73
8	108		47	19.81		86	5.06		125	1.68
9	102.8		48	19.06		87	4.90		126	1.64



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GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI

Add: West Jinji Rd, Qianshan, Zhuhai,Guangdong, China, 519070
Tel: (+86-756) 8522218
Fax: (+86-756) 8669426
E-mail: gree@gree.com.cn www.gree.com

HONG KONG GREE ELECTRIC APPLIANCES SALES LIMITED

Add: Unit 2612,26/F.,Miramar Tower 132 Nathan Road,TST,Kowloon,HK
Tel: (852) 31658898 Fax: (852) 31651029

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