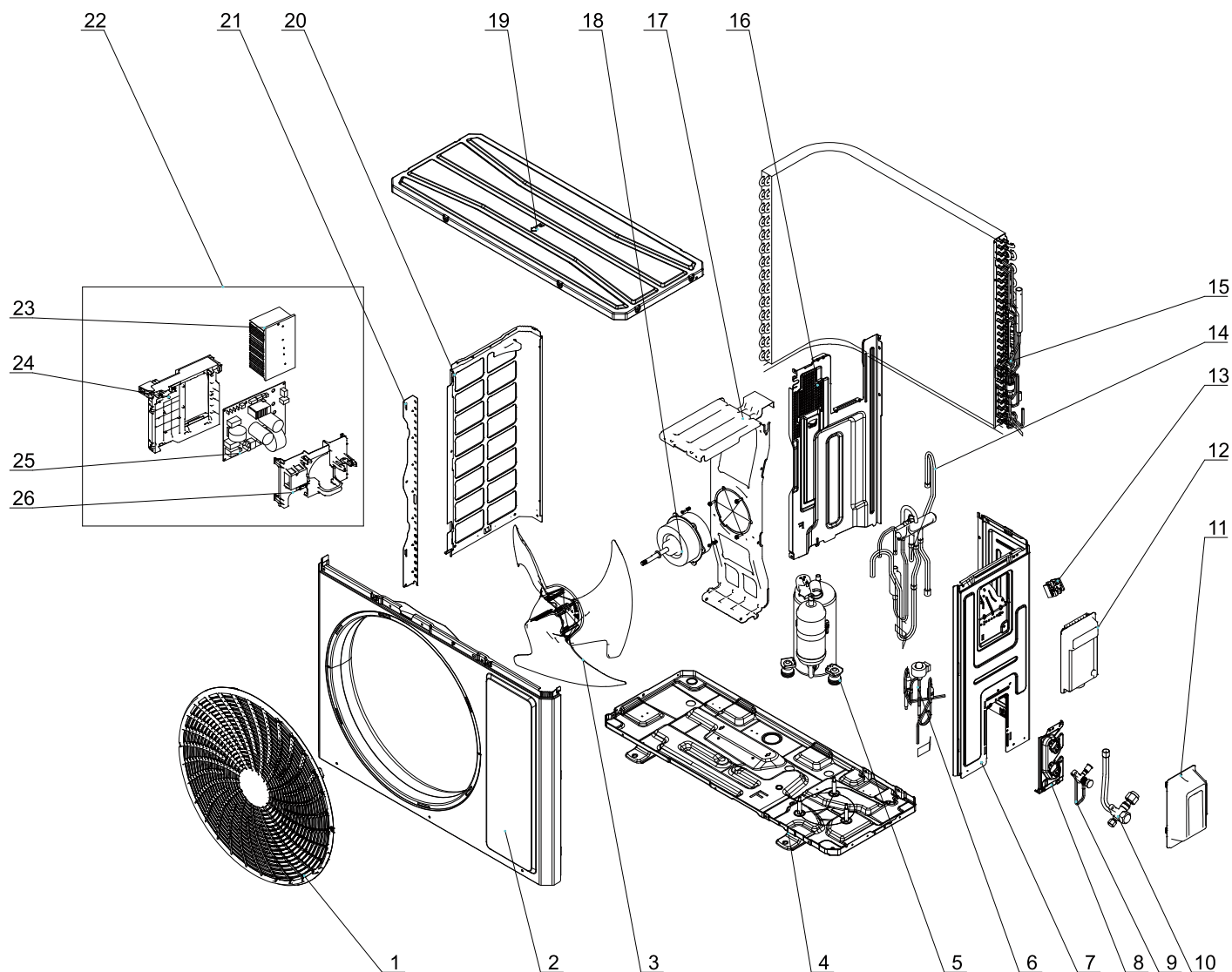


The component is only for reference; please refer to the actual product

NO.	Description
1	Front Grill
2	Front Panel
3	Axial Flow Fan
4	Chassis Sub-assy
5	Compressor and Fittings
6	Electronic Expansion Valve
7	Right Side Plate
8	Valve Support
9	Cut-off valve
10	Cut-off valve
11	Valve Cover
12	Handle
13	Terminal Board

NO.	Description
14	4-Way Valve Assy
15	Condenser Assy
16	Clapboard Assy
17	Motor Support
18	Brushless DC Motor
19	Top Cover Assy
20	Left Side Plate
21	Condenser Left Border Plate
22	Electric Box Assy
23	Radiator
24	Electric Box
25	Main Board
26	Electric Box Cover

Some models may not contain some parts, please refer to the actual product.

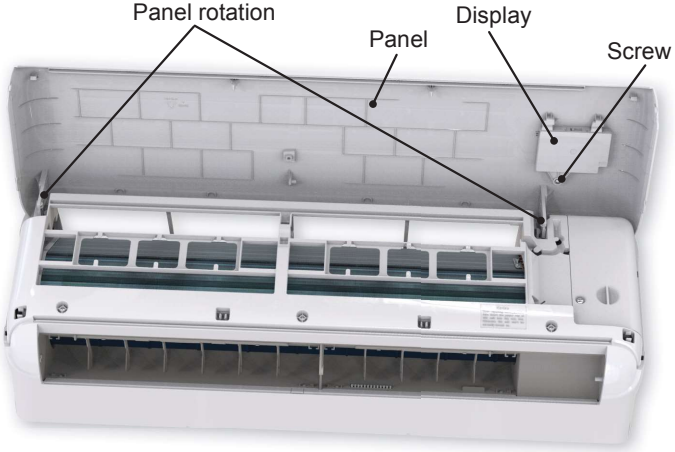
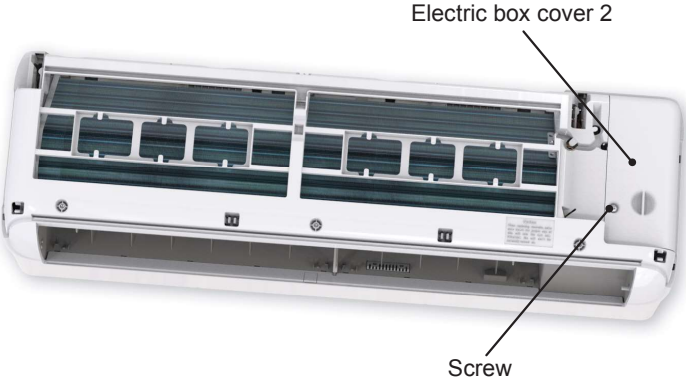
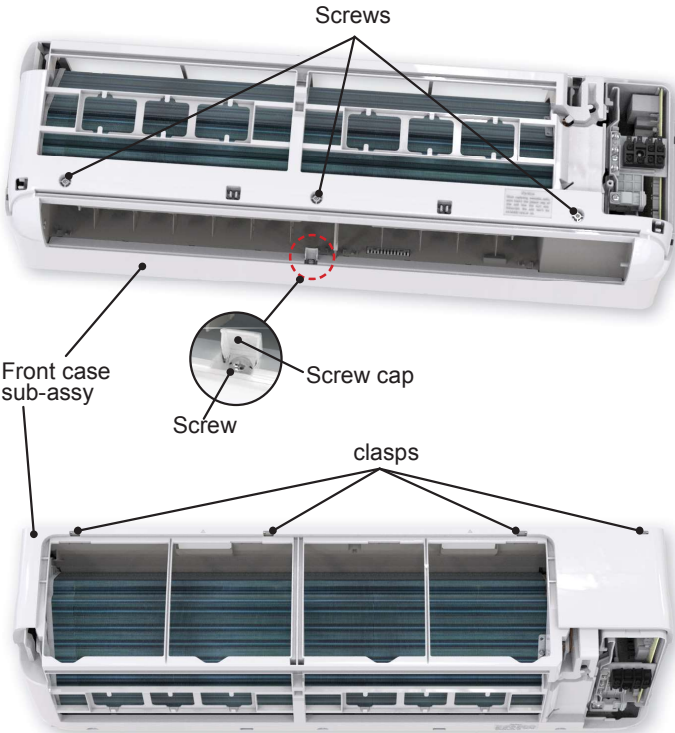


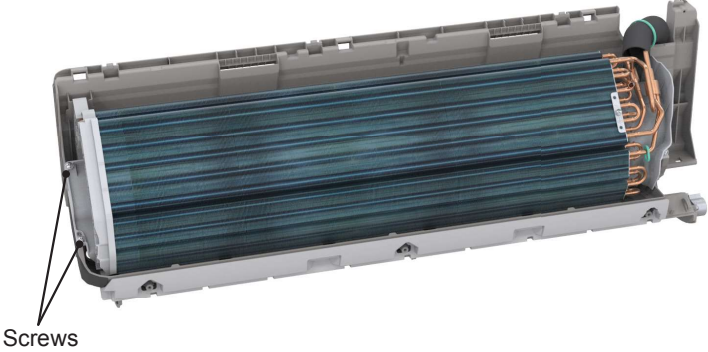
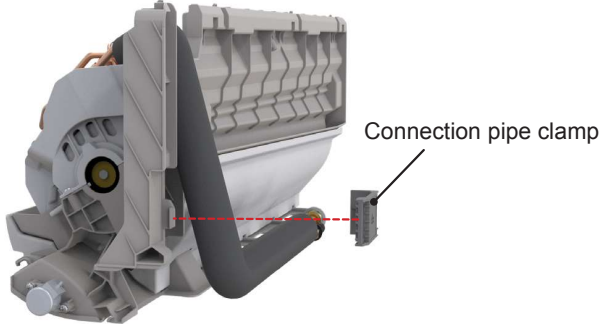
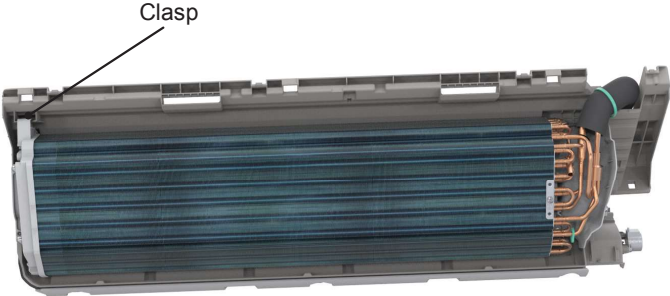

The component is only for reference; please refer to the actual product

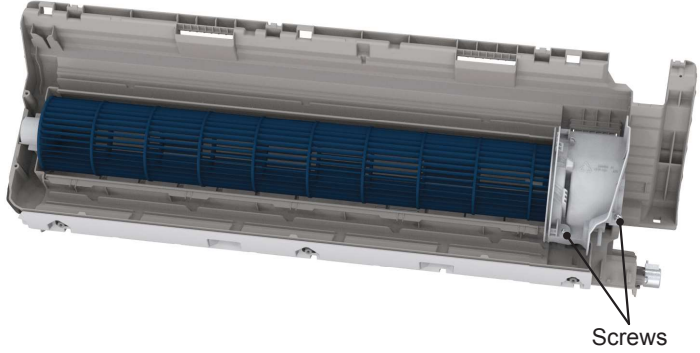
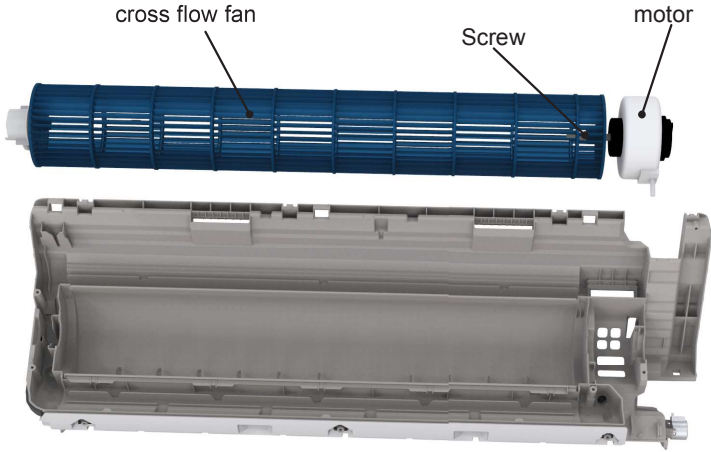

NO.	Description
1	Front Grill
2	Front Panel
3	Axial Flow Fan
4	Chassis Sub-assy
5	Compressor and Fittings
6	Electronic Expansion Valve
7	Right Side Plate
8	Valve Support
9	Cut-off valve
10	Cut-off valve
11	Valve Cover
12	Handle
13	Terminal Board

NO.	Description
14	4-Way Valve Assy
15	Condenser Assy
16	Clapboard Assy
17	Motor Support
18	Brushless DC Motor
19	Top Cover Assy
20	Left Side Plate
21	Condenser Left Border Plate
22	Electric Box Assy
23	Radiator
24	Electric Box
25	Main Board
26	Electric Box Cover

Some models may not contain some parts, please refer to the actual product.

Step	Procedure
<p>3. Remove panel</p> <p>Open the front panel; separate the panel rotation shaft from the groove fixing the front panel and then removes the front panel.</p> <p>Note: The display of some models is fixed on the panel; unscrew the screws fixing the display on the panel before removing the panel.</p>	
<p>4. Remove electric box cover 2</p> <p>Remove the screws on the electric box cover 2 to remove the electric box cover 2.</p>	
<p>5. Remove front case sub-assy</p> <p>a Remove the screws fixing front case.</p> <p>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.</p> <p>b Loosen the 4 clasps of front case. Lift the front case sub-assy upwards to remove it.</p>	

Step	Procedure
7. Remove evaporator assy	
a	<p>Remove 2 screws fixing evaporator assy.</p>  <p>Screws</p>
b	<p>At the back of the unit, Loosen the clasp of the connection pipe clamp and then remove the connection pipe clamp.</p>  <p>Connection pipe clamp</p>
c	<p>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.</p>  <p>Clasp</p>
d	<p>Adjust the position of connection pipe on evaporator slightly and then lift the evaporator upwards to remove it.</p>  <p>Connection pipe</p>

Step	Procedure
8. Remove motor and cross flow fan	
a	<p>Remove 3 screws fixing motor clamp and then remove the motor clamp.</p>  <p style="text-align: right;">Screws</p>
b	<p>Loose the screws (2-3 circles) used for fixing the cross flow fan, pull right to pull out the motor.</p>  <p style="text-align: center;">cross flow fan Screw motor</p>
9. Remove swing motor	
	<p>Screw off the screws that are locking the swing motor and take the motor off.</p>  <p style="text-align: center;">Screws</p>

11.2 Removal Procedure of Outdoor Unit




12K


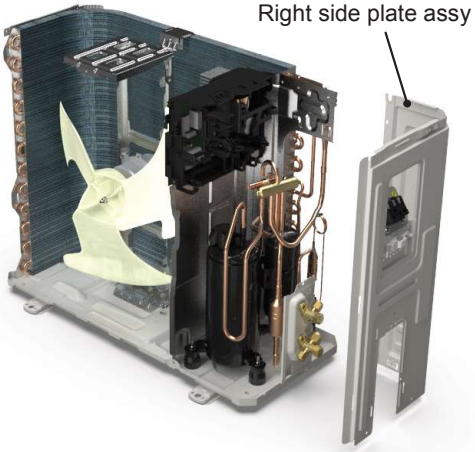
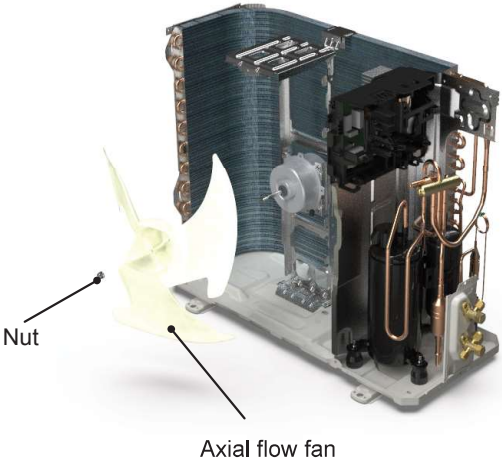
NOTE: Take heat pump for example.

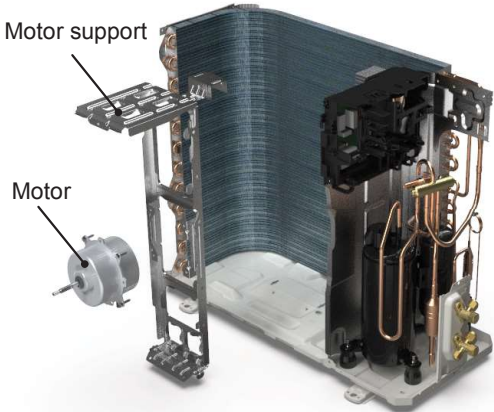
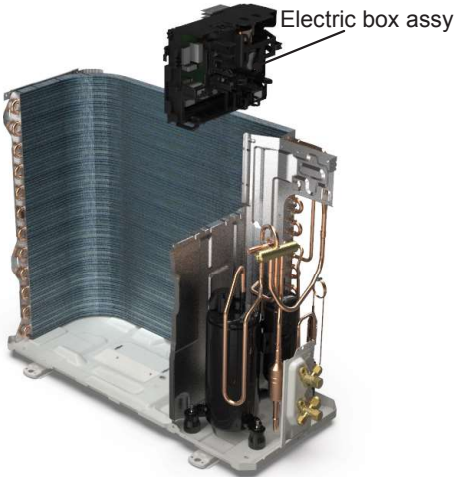
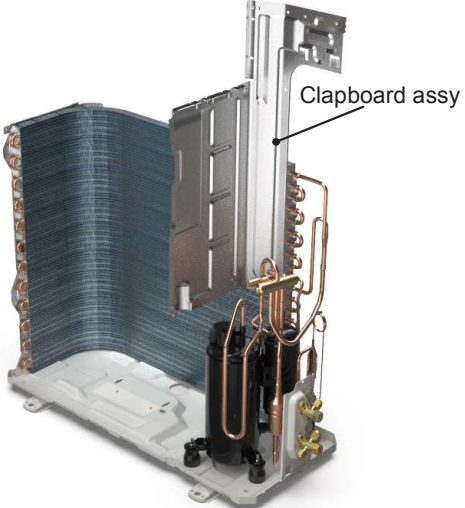
(The front grill appearance is for reference only)

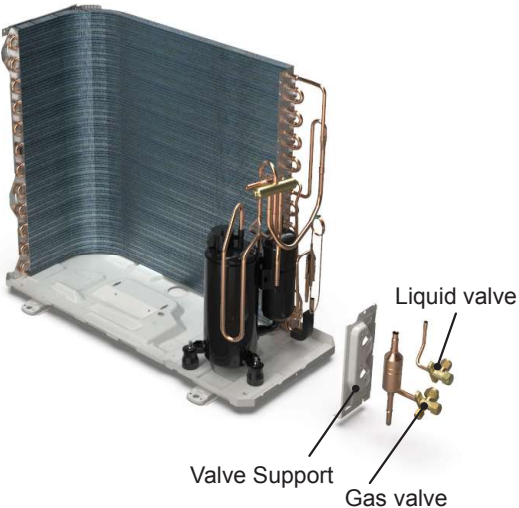
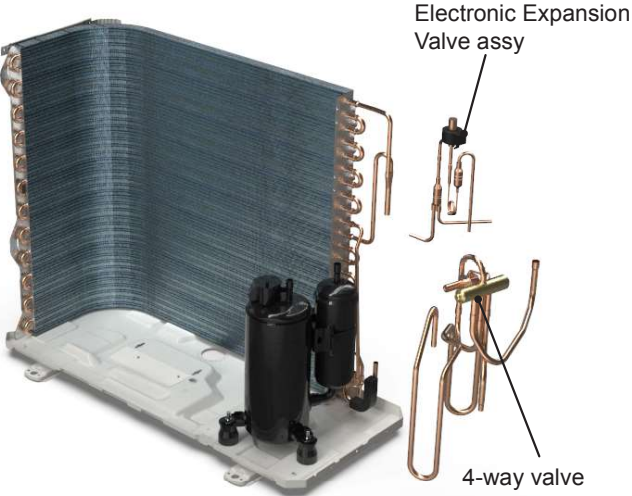
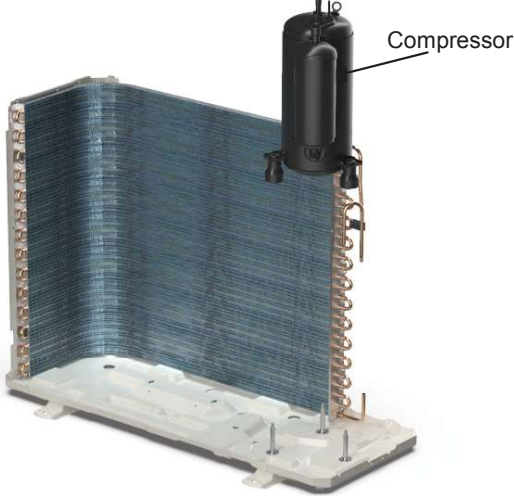



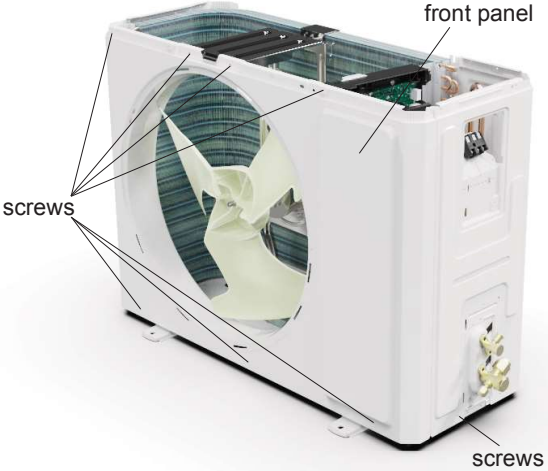

Caution: discharge the refrigerant completely before removal.

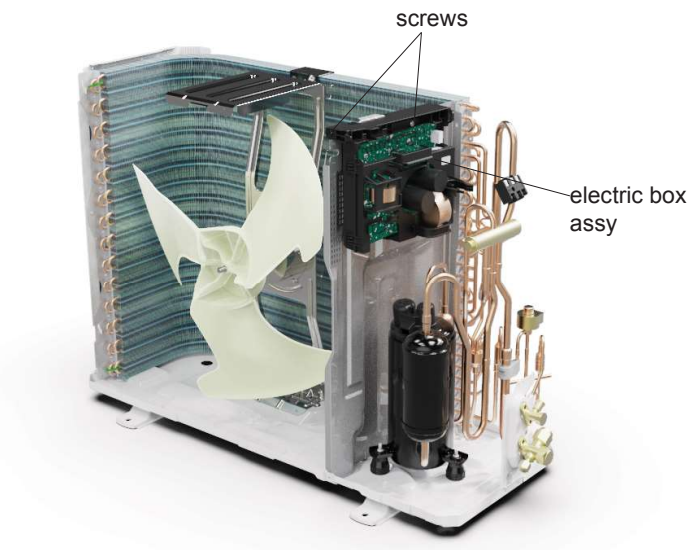
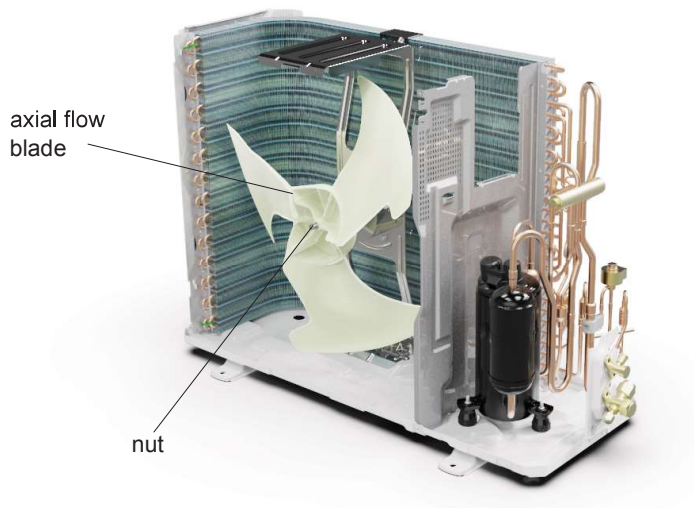
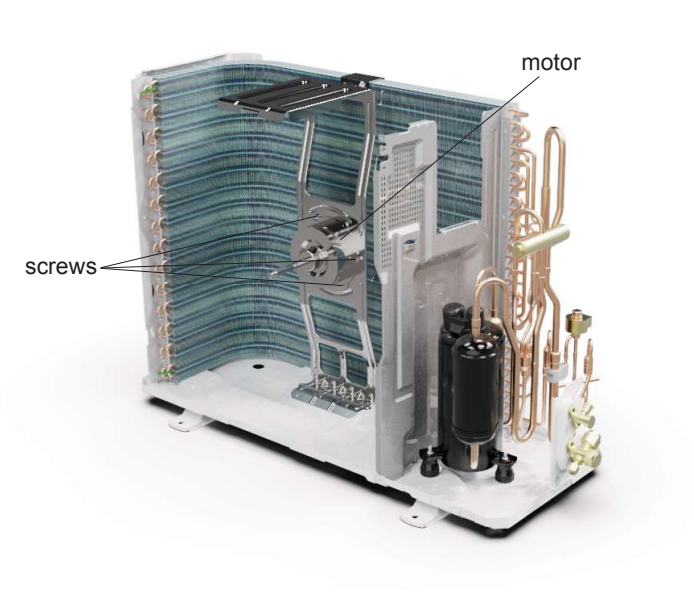
Step	Procedure
1. Before disassembly	
2. Remove big handle and valve cover	<p data-bbox="224 1102 787 1165">Remove the screws fixing big handle, valve cover and then remove them.</p> 
3. Remove top cover	<p data-bbox="224 1680 787 1743">Remove the screws fixing top panel and then remove the top panel.</p> 

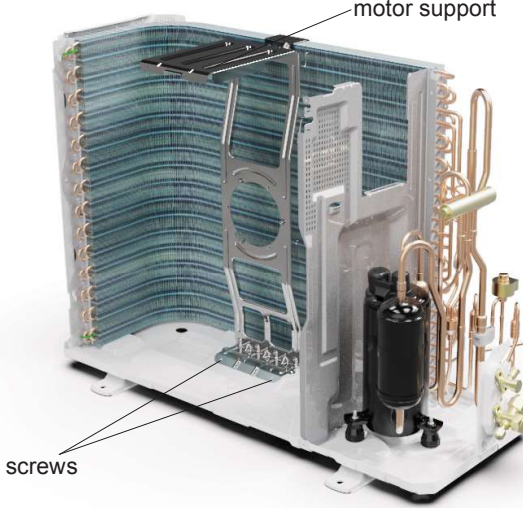
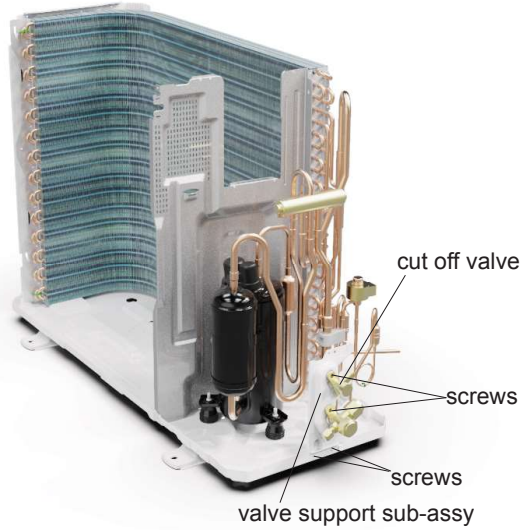
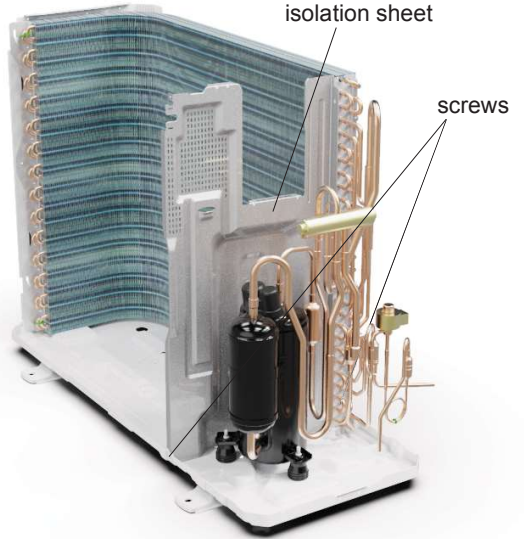
Step	Procedure
<p>4. Remove front panel assy</p>	<p>Remove connection screws connecting the front panel assy with the chassis and the motor support, and then remove the front panel assy.</p> 
<p>5. Remove right side plate assy</p>	<p>Rescrew the ground screws, remove the ground wires, loosen the screws fixing terminal board, remove the terminal board, rescrew the screws fixing the right plate, and remove the right side plate assy.</p> 
<p>6. Remove axial flow fan</p>	<p>Remove the nut on the fan and then remove the axial flow fan.</p> 


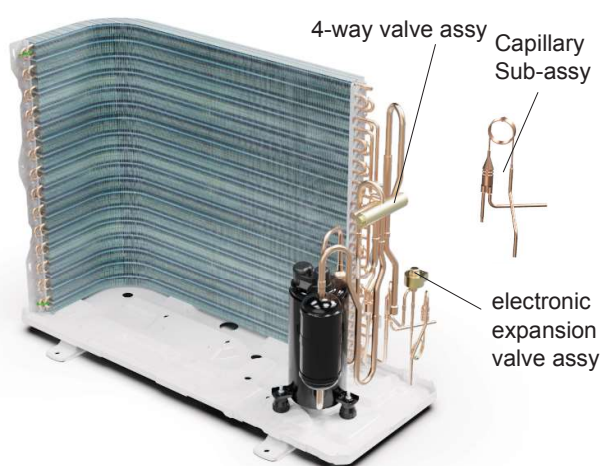
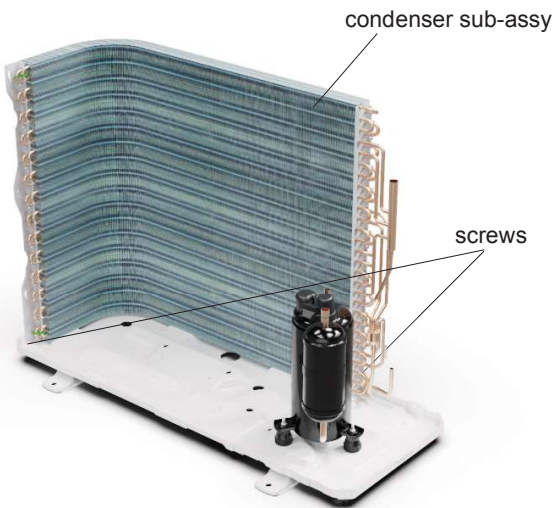
Step	Procedure
<p>7. Remove motor support and motor</p>	<p>Remove the screws fixing the motor support and lift the motor support to remove it. Remove the screws fixing the motor and then remove the motor.</p> 
<p>8. Remove electric box assy</p>	<p>Remove the terminals, lift up and rotate the electrical box assy to the right so that the snaps on the clapboard are removed and the electrical box assy are removed.</p> 
<p>9. Remove clapboard assy</p>	<p>Remove the screws fixing the clapboard assy and then remove the clapboard assy.</p> 

Step	Procedure
<p>10. Remove gas valve and liquid valve</p> <p>Remove the valve support bolck, remove the screws fixing the gas valve and the liquid valve,unsolder the welding joint connecting the gas valve and the liquid valve, remove them.</p> <p>Note: Discharge the refrigerant completely befor unsoldering; when unsoldering, wrap the gas valve with a wet cloth completely to avoid damage to the valve caused by high temperature.</p>	 <p>The diagram illustrates the removal of the gas and liquid valves. It shows a condenser coil assembly with a valve support block. The gas valve and liquid valve are shown being removed from the support block. Labels indicate the Valve Support, Gas valve, and Liquid valve.</p>
<p>11. Remove 4-way valve and Electronic Expansion Valve assy</p> <p>Unsolder the welding joints connecting Electronic Expansion Valve assy and then remove it.</p> <p>Unsolder the welding joints connecting the 4-way valve assy with capillary sub-assy, compressor and condenser; remove the 4-way valve.Cooling only unit removes Discharge Tube and Inhalation Tube.</p> <p>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.</p>	 <p>The diagram illustrates the removal of the 4-way valve and the Electronic Expansion Valve (EEV) assembly. It shows the condenser coil assembly with the EEV and 4-way valve assembly. Labels indicate the Electronic Expansion Valve assy and the 4-way valve.</p>
<p>12. Remove compressor</p> <p>Remove the 3 foot nuts on the compressor and then remove the compressor.</p>	 <p>The diagram illustrates the removal of the compressor. It shows the condenser coil assembly with the compressor mounted on top. A label indicates the Compressor.</p>

Step	Procedure
<p>1. Remove grille</p>	<p>Remove the screws fixing the grille and then remove the panel grille.</p> 
<p>2. Remove front panel</p>	<p>Remove screws fixing the front panel and then remove the front panel.</p> 
<p>3. Remove right side plate</p>	<p>Remove screws fixing connecting the front panel with the chassis and the motor support, and then remove the right side plate.</p> 

Step	Procedure
<p>4. Remove electric box assy</p>	<p>Remove the screws fixing the electricbox; loosen the wire bundle; pull out the wiring terminals and then pull electric box upwards to remove it.</p> 
<p>5. Remove axial flow blade</p>	<p>Remove nut fixing the blade and then remove the blade.</p> 
<p>6. Remove motor</p>	<p>Remove screws fixing the motor and then remove the motor.</p> 

Step	Procedure
<p>7. Remove motor support</p>	<p>Remove screws fixing the motor support and then remove the motor support.</p> 
<p>8. Remove cut off valve and valve support sub-assy</p>	<p>Remove screws fixing the cut off valve and then remove the cut off valve; Remove screws fixing the valve support subassy and then remove the valve support subassy. Note: When pulling out the wiring terminal, pay attention to loose the clasp and don't pull it so hard.</p> 
<p>9. Remove isolation sheet</p>	<p>Remove the screws fixing the isolation sheet and then remove the isolation sheet.</p> 

Step	Procedure
<p>10. Remove left side plate</p>	<p>Remove the screws fixing the left side plate and the chassis, and then remove the left side plate.</p> 
<p>11. Remove 4-way valve assy or capillary sub-assy/ electronic expansion valve assy</p>	<p>Unsolder the spot weld of capillary sub-assy(electric expansion valve sub-assy) and condenser, and then remove the capillary sub-assy(electric expansion valve sub-assy).</p> <p>Note: When unsoldering the spot weld, wrap the capillary sub-assy(electric expansion valve sub-assy) with wet cloth completely to avoid damaging the valve due to high temperature.</p> 
<p>12. Remove condenser sub-assy</p>	<p>Remove the screws fixing the condenser and chassis, and then lift the condenser upwards to remove it.</p> 

Appendix

Appendix 1: Reference Sheet of Celsius and Fahrenheit

Conversion formula for Fahrenheit degree and Celsius degree: $T_f = T_c \times 1.8 + 32$

Set temperature

Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius (°C)	Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius (°C)	Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius (°C)
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 (°F)	Fahrenheit (°F)	Celsius (°C)	Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius (°C)	Fahrenheit display temperature (°F)	Fahrenheit (°F)	Celsius (°C)
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 (More details please refer to the specifications.)


2. Min length of connection pipe For the unit with standard connection pipe of 5m, there is no limitation for the min 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 and max. high difference. (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 the following sheet.
- Additional refrigerant charging amount = prolonged length of liquid pipe X additional refrigerant charging amount per meter

Additional refrigerant charging amount for R32				
Piping size		Indoor unit throttle	Outdoor unit throttle	
Liquid pipe	Gas pipe	Cooling only, cooling and heating (g / m)	Cooling only(g/m)	Cooling and heating(g/m)
1/4"	3/8" or 1/2"	16	12	16
1/4" or 3/8"	5/8" or 3/4"	40	12	40
1/2"	3/4" or 7/8"	80	24	96
5/8"	1" or 1 1/4"	136	48	96
3/4"	/	200	200	200
7/8"	/	280	280	280



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For product improvement, specifications and appearance in this manual are subject to change without prior notice.

