

REMOVAL PROCEDURE



S E R V I C E M A N U A L

2.5/3.5/4.2 kW Class



Indoor Unit



Inverter / Non-Inverter



Wall Mounted Type



Service Manual

Removal Procedure

Indoor Unit

●Cooling Only

ATC25QRV16
ATC35QRV16
ATC25RRV162
ATC35RRV161
ATC42RRV162

ATF35QRV16
ATF35RRV161

ATQ35QRV16
ATQ35RRV162

ATKM25QRV16
ATKM35QRV16
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ATKP25QRV16
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FTC35RRV1615
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FTF35RRV1615

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FTQ35RRV1625

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FTKH35QRV16
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FTKM25PRV16
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Table of Contents

1. Air Filters	2
2. Front Panel.....	3
3. Front Grille	4
4. Horizontal Blade / Vertical Blade ASSYs	5
5. Electrical Box	7
6. PCBs	9
7. Drain Pan Unit / Swing Motor	13
8. Indoor Heat Exchanger	14
9. Fan Motor / Fan Rotor.....	16



Note:

- ◆ The illustrations may be slightly different depending on the model.

1. Air Filters



Warning

◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

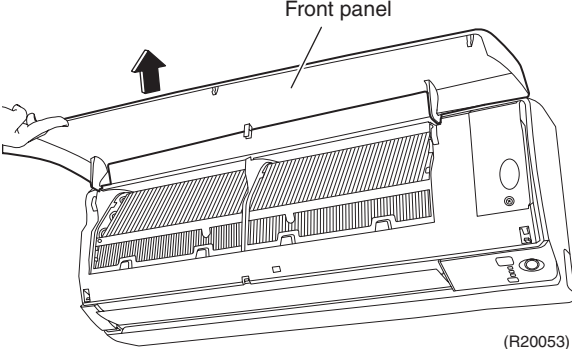
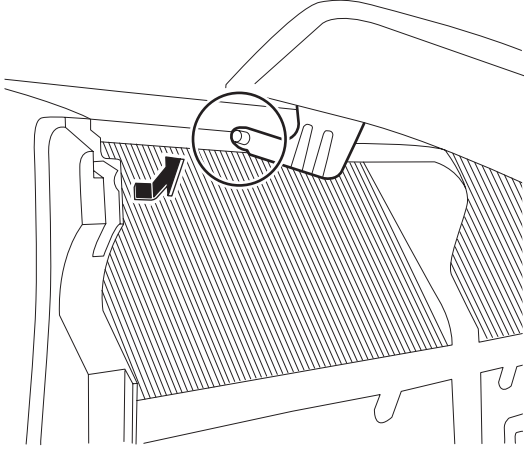
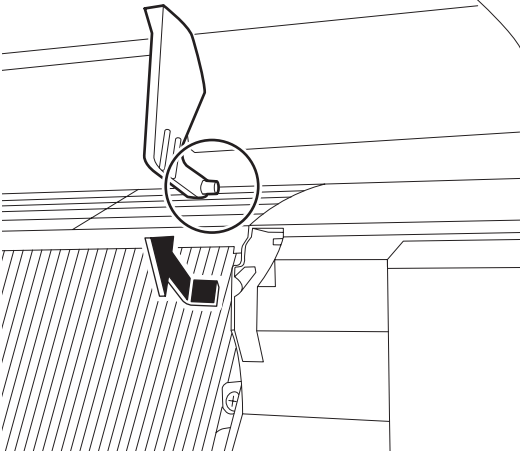
Step	Procedure	Points
<p>1. Remove the air filters.</p> <p>1 Open the front panel to the position where it stops.</p> <p>2 Pull out the air filter downward and remove it.</p>		<ul style="list-style-type: none"> ■ The air filter is not marked for difference between the right and left sides. ■ Insert the air filter with the “FRONT” mark faced up. ■ When reassembling, insert the air filter along the guides. ■ Be sure to insert the 2 hooks when mounting the air filter.
<p>2. Remove the optional filters.</p> <p>1 Unfasten the 4 projections to remove the optional filter ASSY, if available.</p> <p>2 Unfasten the 5 hooks and remove the optional filter from its frame.</p>		<ul style="list-style-type: none"> ■ The right and left filters are interchangeable.

2. Front Panel



Warning

- ◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

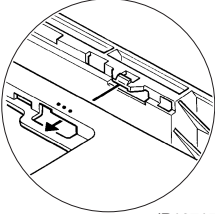
Step	Procedure	Points
1	Open the front panel over the position where it stops.	 <p>(R20053)</p>
2	Slide the left shaft to the right and release the left shaft.	<ul style="list-style-type: none"> ■ When reassembling the front panel, fit the right and left shafts one by one into the grooves and fully push them into position.  <p>(R20054)</p>
3	Remove the right shaft in the same way.	 <p>(R20055)</p>
4	Remove the front panel.	

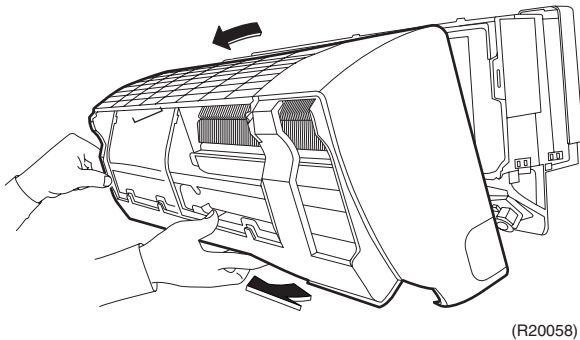
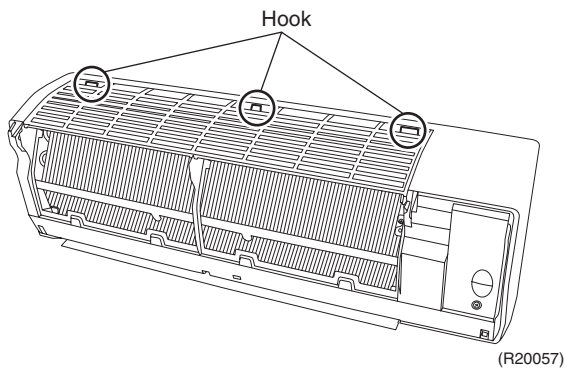
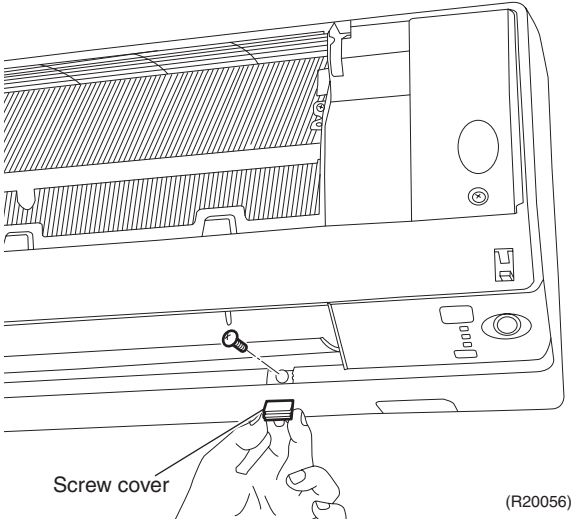
3. Front Grille



Warning

♦ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1	Remove the screw cover, and then the screw, on both sides.	<ul style="list-style-type: none"> ■ Open the horizontal blade before removing the screw covers and screws. ■ When reassembling the indoor unit, drive the screws with the horizontal blade opened or removed.
2	Unfasten the 3 hooks on the top of the front grille.	<ul style="list-style-type: none"> ■ The convex marks (...) on the front grille indicate the position of the hooks.  <ul style="list-style-type: none"> ■ When reassembling, make sure that all the 3 hooks are fastened. ■ When reassembling the front grille, be sure not to get it stuck on the spacer of the drain pan.
3	Pull out the upper part of the front grille and lift up the lower part, and then remove the front grille.	



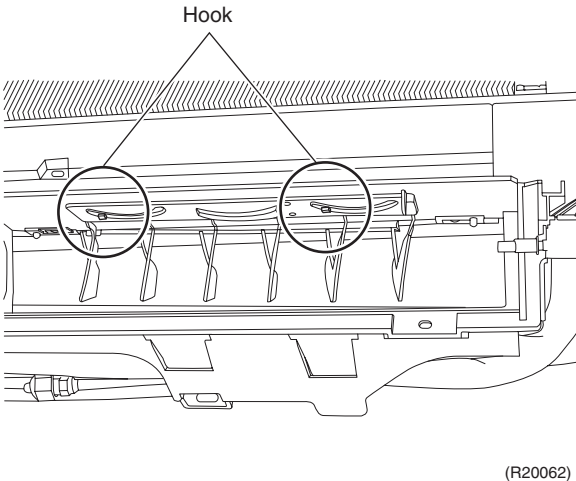
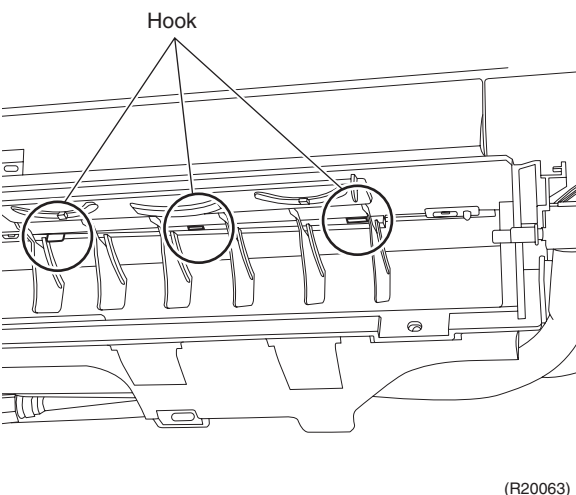

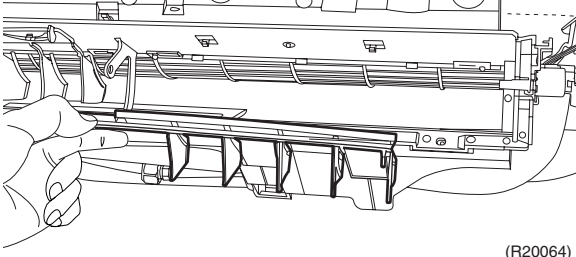
4. Horizontal Blade / Vertical Blade ASSYs



Warning

♦ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1. Remove the horizontal blade.	<p>Horizontal blade (R22547)</p>	
1 Unfasten the center shaft while bending the horizontal blade slightly.	<p>(R20060)</p>	<p>■ Installation procedure</p> <ol style="list-style-type: none"> 1. Fit the horizontal blade to the right shaft first. Make sure to rotate the horizontal blade so the shaft fits correctly. 2. Fit the horizontal blade to the center and left shafts.
2 Unfasten the left shaft.	<p>(R20061)</p>	
3 Unfasten the right shaft and remove the horizontal blade.		

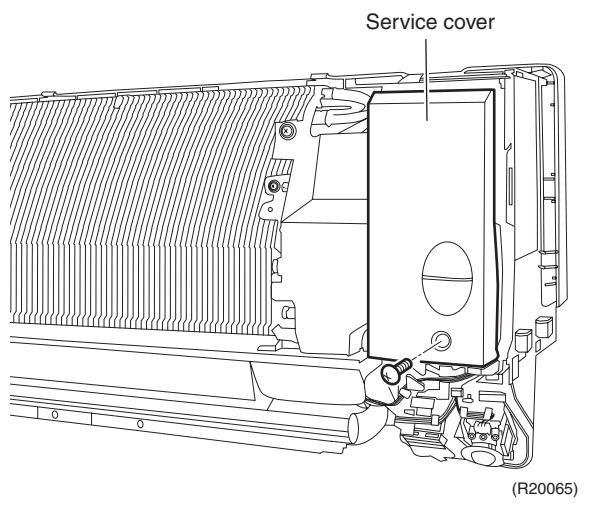
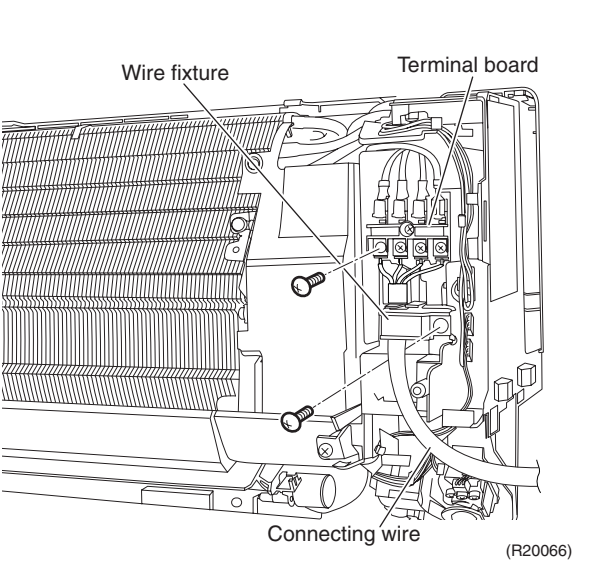
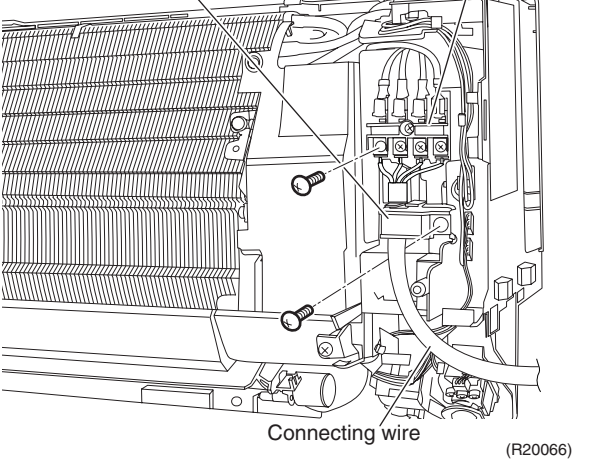
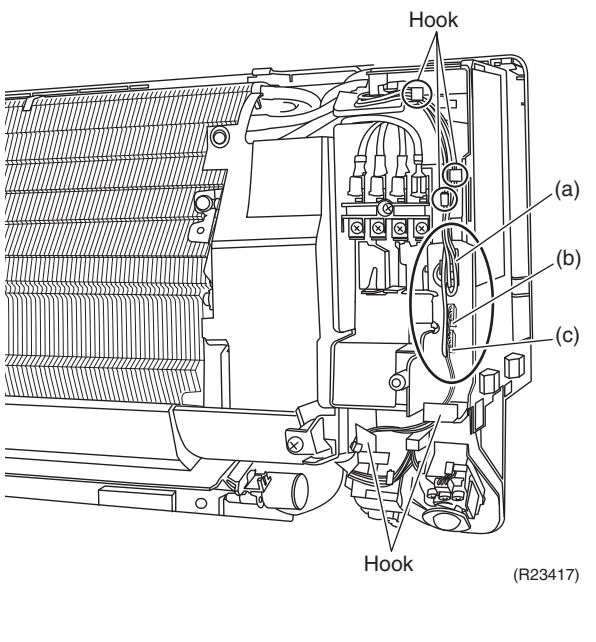
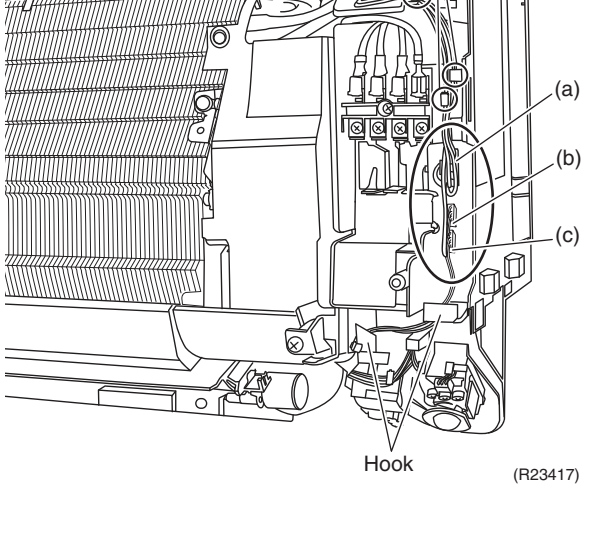
Step	Procedure	Points
2. Remove the vertical blade ASSYs.		<ul style="list-style-type: none"> Slide the front hooks to the right/left to unfasten easily.
1. Unfasten the 2 hooks on the front.	 <p>(R20062)</p>	
2. Unfasten the 3 hooks of the vertical blade ASSY by pressing them with a flat screwdriver.	 <p>(R20063)</p>	
3. Remove the vertical blade ASSY.		<ul style="list-style-type: none"> Each vertical blade ASSY has 6 fins. It is not possible to replace the fins individually.
4. Remove the other vertical blade ASSY in the same way.	 <p>(R20064)</p>	<ul style="list-style-type: none"> The vertical blade ASSY is not marked for difference between right and left.

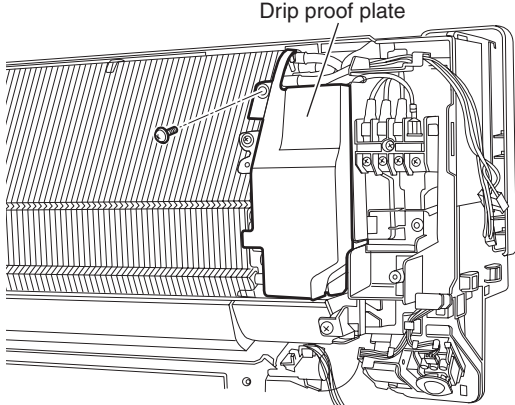
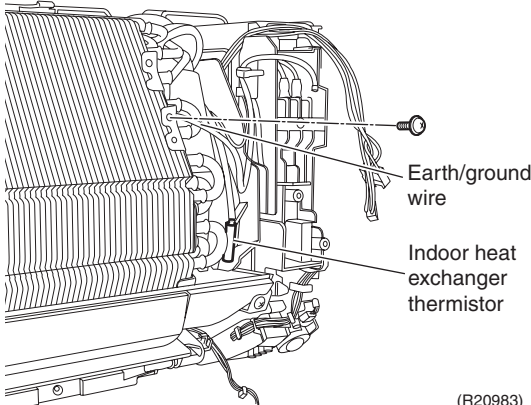
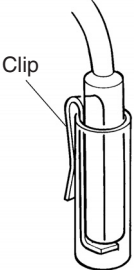
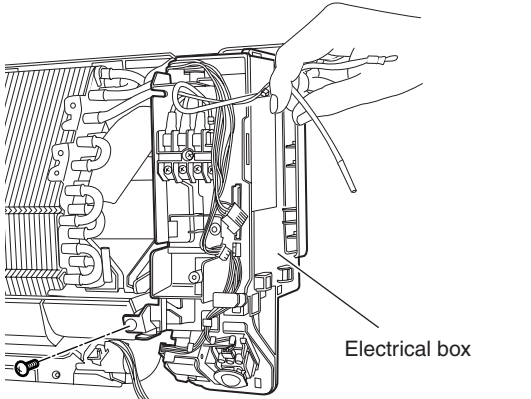
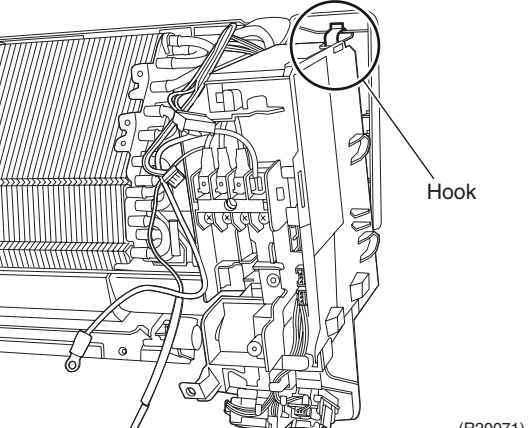
5. Electrical Box



Warning

- ◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Procedure	Points
1	Remove the screw, and then the service cover.	 <p style="text-align: center;">Service cover</p> <p style="text-align: right;">(R20065)</p>	
2	Remove the screw, and then the wire fixture.	 <p style="text-align: center;">Wire fixture Terminal board</p> <p style="text-align: center;">Connecting wire</p> <p style="text-align: right;">(R20066)</p>	
3	Remove the 4 screws on the terminal board and disconnect the connecting wire.		
4	Disconnect the 3 connectors.	 <p style="text-align: center;">Hook</p> <p style="text-align: right;">(R23417)</p>	<p>(a) fan motor: [S1] or [CN_FAN]</p> <p>(b) swing motor: [S6] or [CN_STP]</p> <p>(c) fan motor (Hall IC): [S7] or [CN101]</p>
5	Release the harnesses from the hooks.		

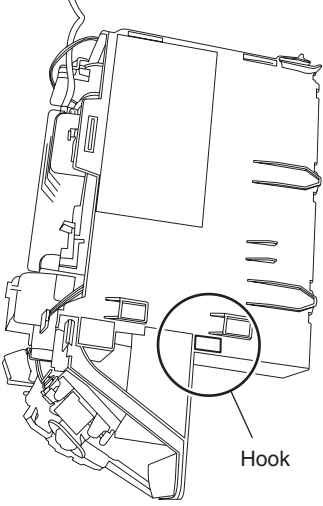
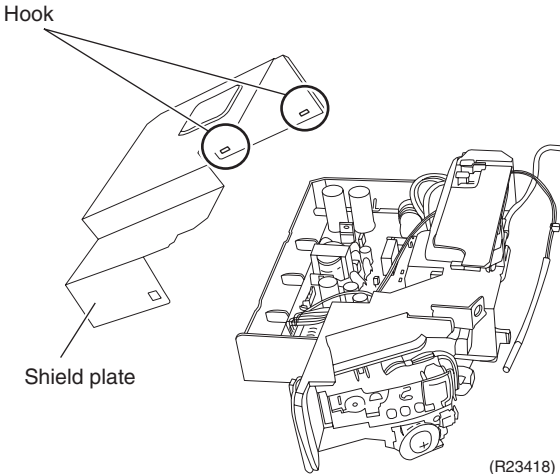
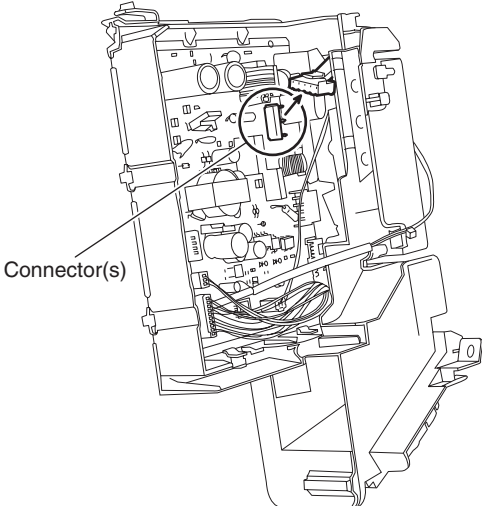
Step	Procedure	Points
6	Remove the screw, and then the drip proof plate.	
	 <p style="text-align: center;">Drip proof plate</p> <p style="text-align: right;">(R20068)</p>	
7	Pull out the indoor heat exchanger thermistor.	<p>■ Be careful not to lose the clip for the thermistor.</p>
8	Remove the screw and detach the earth/ground wire.	
	 <p style="text-align: right;">Earth/ground wire Indoor heat exchanger thermistor</p> <p style="text-align: right;">(R20983)</p>	 <p style="text-align: left;">Clip</p> <p style="text-align: right;">(R11234)</p>
9	Remove the screw of the electrical box.	
10	Lift up and pull the electrical box.	
	 <p style="text-align: right;">Electrical box</p> <p style="text-align: right;">(R20070)</p>	
11	Unfasten the hook at the top by pressing it from above and remove the electrical box.	
	 <p style="text-align: right;">Hook</p> <p style="text-align: right;">(R20071)</p>	

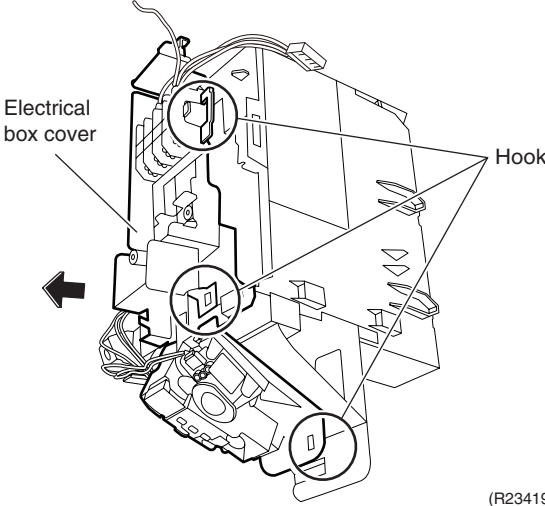
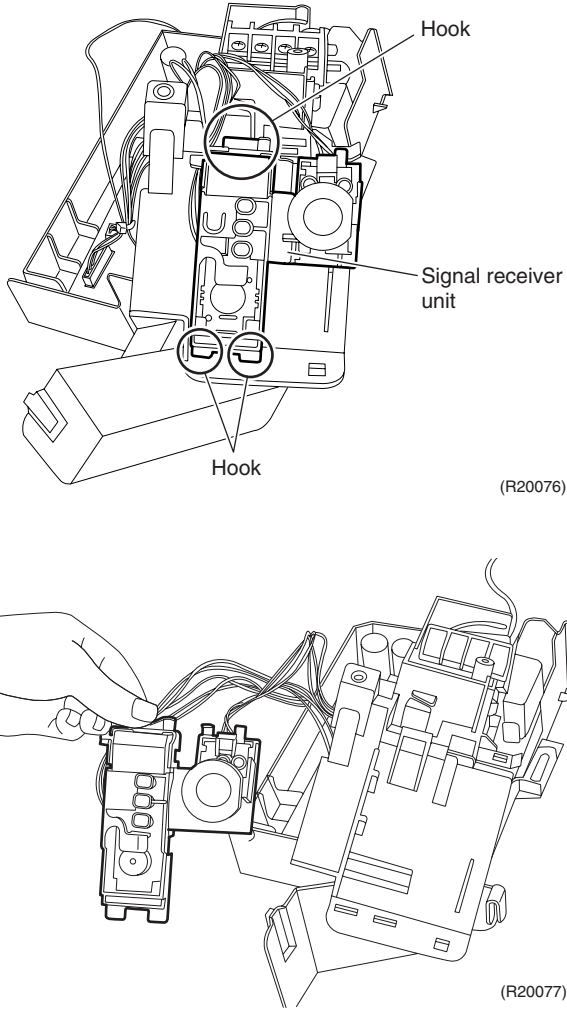
6. PCBs

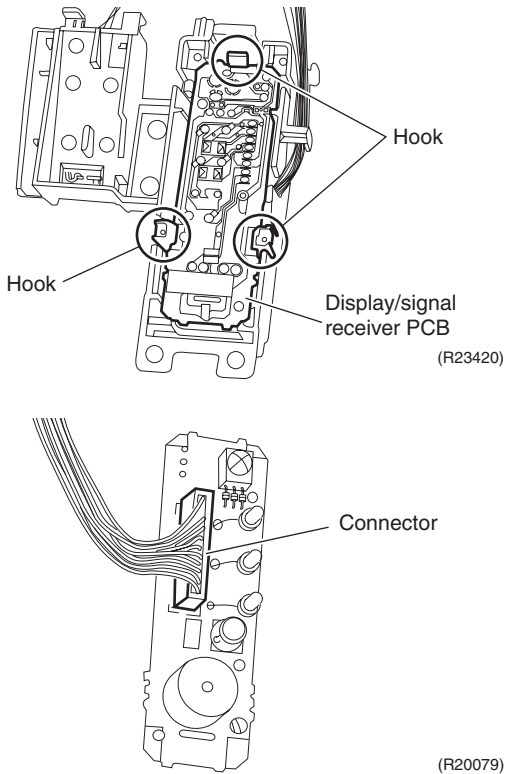
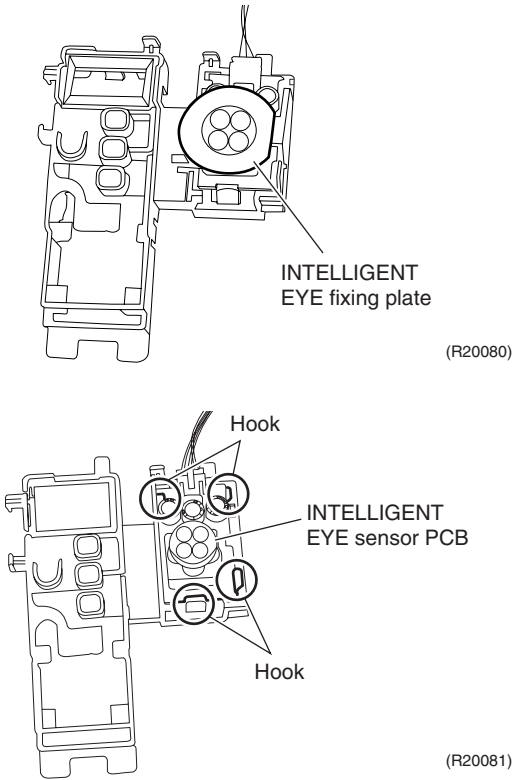


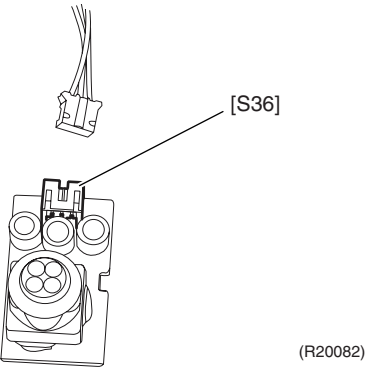
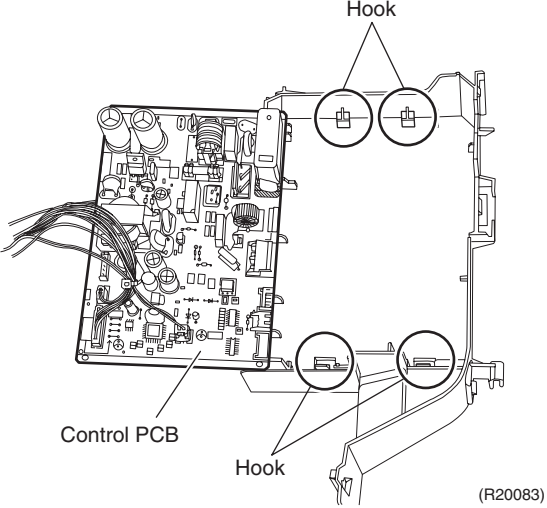
Warning

- ◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
<p>1. Remove the shield plate.</p> <p>1 Unfasten the hook on the right side of the electrical box.</p> <p>2 Unfasten the 2 hooks on the top and remove the shield plate.</p>	 <p>(R20072)</p>  <p>(R23418)</p>	
<p>2. Remove the electrical box cover.</p> <p>1 Disconnect the connector [S2] for the terminal board.</p>	 <p>(R20074)</p>	<p>■ Some models have [COMP], [L] and [N] instead of [S2].</p>

Step	Procedure	Points
<p>2 Unfasten the 3 hooks.</p> <p>3 Slide the electrical box cover to the left and remove it.</p>	 <p>(R23419)</p>	
<p>3. Remove the signal receiver unit.</p>	 <p>(R20076)</p> <p>(R20077)</p>	<p>■ When reassembling the signal receiver unit, make sure the 2 lower hooks are also securely fastened.</p>

Step	Procedure	Points
<p>4. Remove the display/signal receiver PCB.</p> <p>1 Turn over the signal receiver unit.</p> <p>2 Unfasten the 3 hooks and remove the display/signal receiver PCB.</p> <p>3 Disconnect the connector [S27].</p>		<p>■ Some models have [CN_MB] instead of [S27].</p>
<p>5. Remove the INTELLIGENT EYE sensor PCB.</p> <p>1 Remove the INTELLIGENT EYE fixing plate.</p> <p>2 Unfasten the 4 hooks and remove the INTELLIGENT EYE sensor PCB.</p>		<p>■ Some models have no INTELLIGENT EYE sensor PCB.</p>

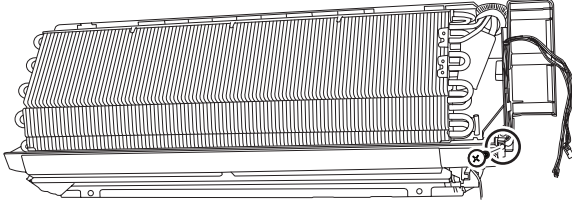
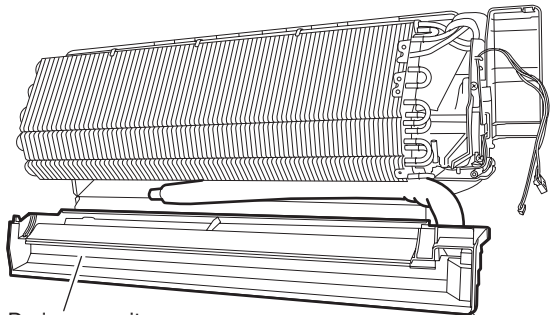
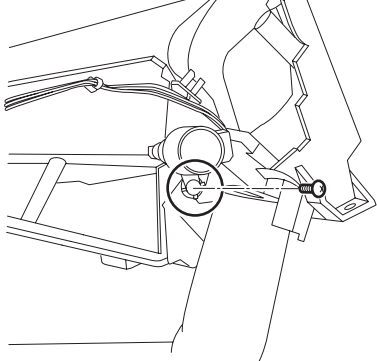
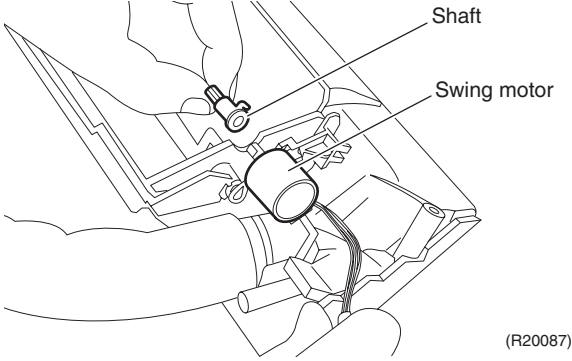
Step	Procedure	Points
3	Disconnect the connector [S36].	[S36]: control PCB
		
6. Remove the control PCB.		<ul style="list-style-type: none"> ■ When reassembling the control PCB, make sure the 2 upper hooks are also securely fastened.
1	Unfasten the 2 lower hooks.	
2	Lift up the bottom of the control PCB and pull it out.	
		

7. Drain Pan Unit / Swing Motor



Warning

- ◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
<p>1. Remove the drain pan unit.</p> <p>1 Remove the screw at the right side of the drain pan unit.</p> <p>2 Press the right side of the drain pan unit and twist the left side.</p> <p>3 Remove the drain pan unit from the indoor unit.</p>	 <p>(R20084)</p>  <p>Drain pan unit</p> <p>(R20085)</p>	<ul style="list-style-type: none"> ■ When reassembling, make sure that the hook at the left side is fitted in the groove.
<p>2. Remove the swing motor.</p> <p>1 Remove the screw of the swing motor.</p> <p>2 Remove the shaft, and then the swing motor.</p>	 <p>(R23421)</p>  <p>Shaft</p> <p>Swing motor</p> <p>(R20087)</p>	

8. Indoor Heat Exchanger



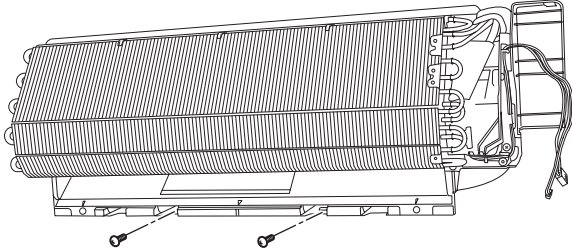
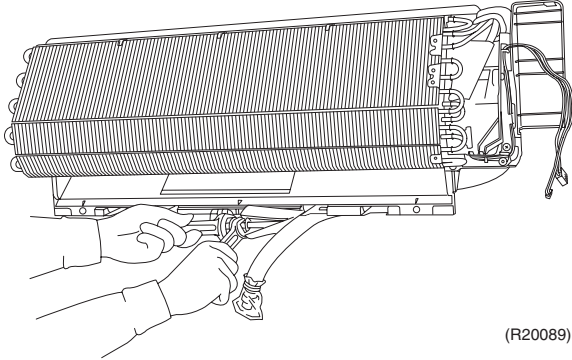
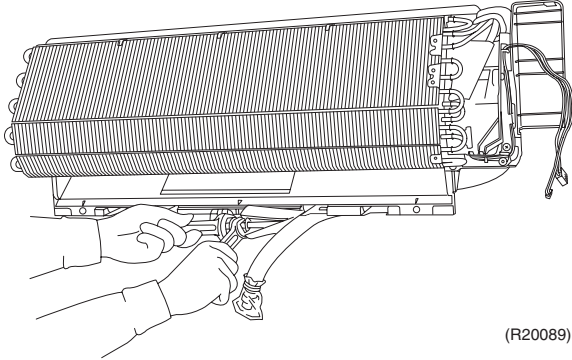
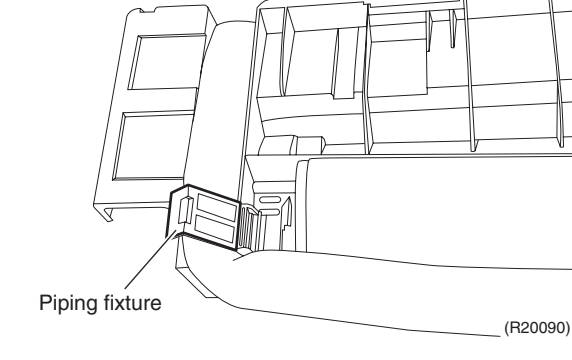
Warning

- ◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.
- ◆ In pump-down work, be sure to stop the compressor before disconnecting the refrigerant pipe. If the refrigerant pipe is disconnected with the compressor operating and the stop valve open, air may be sucked in and may generate an over-pressure in refrigeration cycle, thus resulting in pipe rupture or accidental injury.
- ◆ When removing or reinstalling the indoor heat exchanger, be sure to wear gloves or wrap the indoor heat exchanger with cloths. (You may be injured by the fins.)

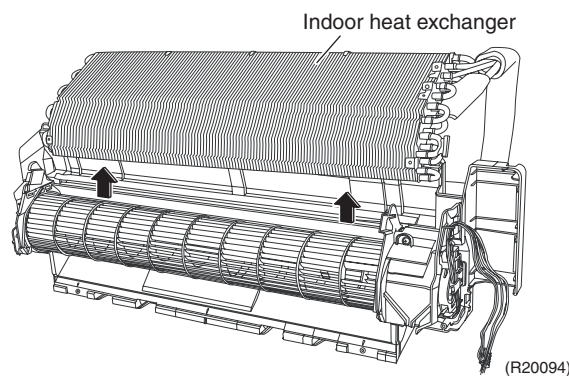
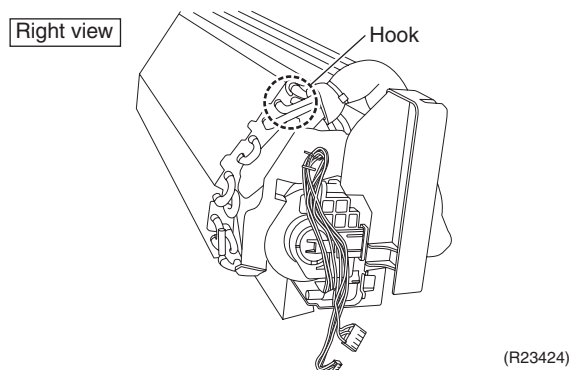
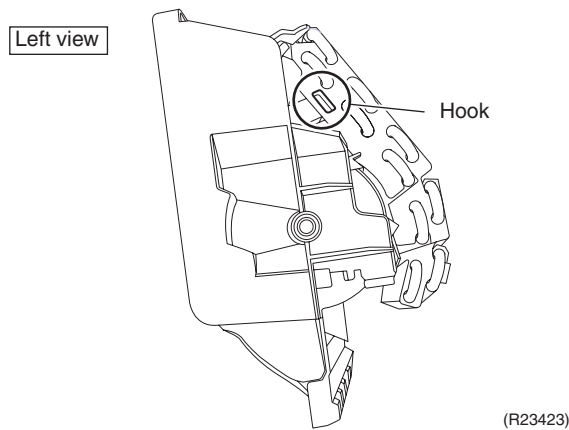
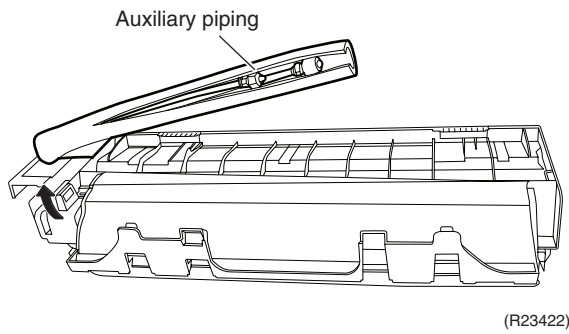


Caution

- ◆ Be sure to conduct pump down operation before disassembling the refrigerant pipe.
- ◆ If the refrigerant leaks, repair the spot of leaking, then collect all refrigerant from the unit. After conducting vacuum drying, recharge proper amount of refrigerant.
- ◆ From the viewpoint of global environmental protection, make sure to use a vacuum pump for air purging.

Step	Procedure	Procedure	Points
1	Remove the 2 screws which fix the indoor unit to the installation plate.	 <p style="text-align: right;">(R20088)</p>	<ul style="list-style-type: none"> ■ Insertion of a wooden base may facilitate the removing work. ■ Place a plastic sheet around the drain pan to prevent wetting the floor with remaining drain. ■ If the drain hose is embedded in the wall, disconnect beforehand.
2	Disconnect the liquid and gas pipes.	 <p style="text-align: right;">(R20089)</p>	<ul style="list-style-type: none"> ■ Carry out the removal work with 2 wrenches.
3	Remove the indoor unit from the installation plate.	 <p style="text-align: right;">(R20089)</p>	<ul style="list-style-type: none"> ■ When the pipings are disconnected, protect the openings of both the pipe and the unit from moisture intrusion.
4	Unfasten the hook of the piping fixture at the back of the indoor unit and pull out the piping.	 <p style="text-align: right;">(R20090)</p>	

Step	Procedure	Points
5	Slightly pull out the auxiliary piping.	
6	Unfasten the left hook with a flat screwdriver.	<ul style="list-style-type: none"> When reassembling the indoor heat exchanger, make sure that the hooks are fastened.
7	Unfasten the right hook.	
8	Lift up and remove the indoor heat exchanger.	

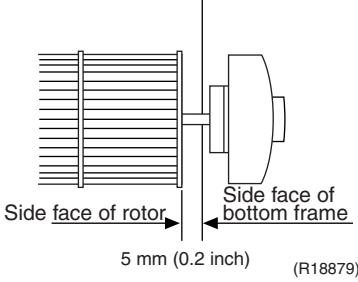
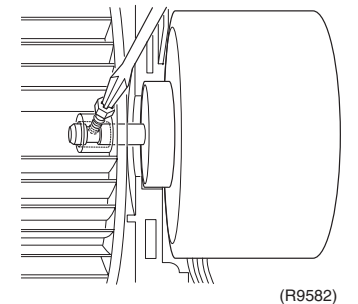
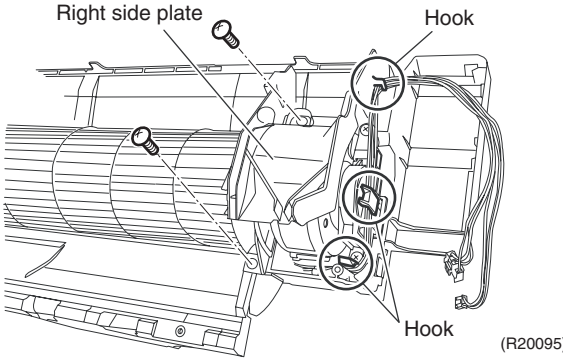
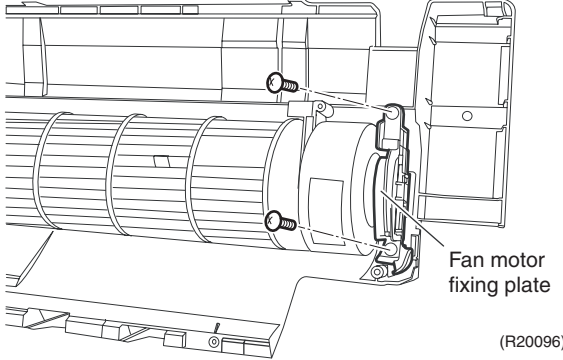
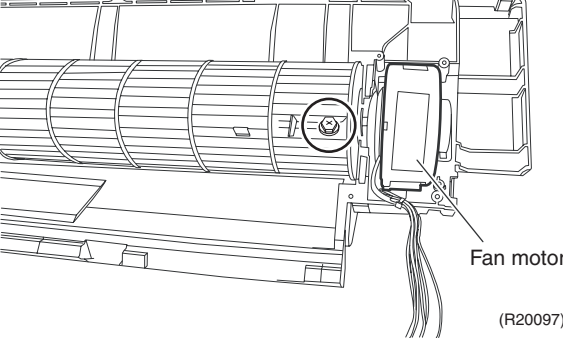
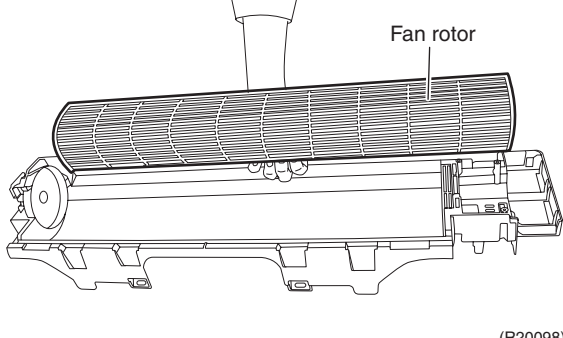


9. Fan Motor / Fan Rotor



Warning

◆ Be sure to wait for 10 minutes or more after turning off all power supplies before disassembling work.

Step	Procedure	Points
1	Remove the 2 screws of the right side plate.	<ul style="list-style-type: none"> ■ When reassembling the fan motor and the fan rotor, provide as much as 5 mm (0.2 inch) of play between the side face of the rotor and the bottom frame.
2	Release the fan motor lead wire from the 3 hooks and remove the right side plate.	
3	Remove the 2 screws of the fan motor fixing plate.	
4	Remove the fan motor fixing plate.	
5	Loosen the screw and remove the fan motor and the fan rotor.	<ol style="list-style-type: none"> (1) Insert the fan motor allowing for approx. 5 mm (0.2 inch) of play. (2) Tighten the fan rotor screw until it stops. Then give the screw one more turn. (3) If the fan rotor rotates appropriately, tighten the screw completely. (4) If not, repeat the procedure from (1).
		
		
		
		

Revision History

Month / Year	Version	Revised contents
04 / 2014	Si041402E	First edition
10 / 2014	Si041402EA	Model addition: FTF35PRV16
10 / 2015	Si041402EB	Model addition: ATC35QRV16, ATF35QRV16, ATQ35QRV16, DTC35QRV16, DTF35QRV16, DTQ35QRV16, FTC35QRV16, FTC35QRV161, FTF35QRV16, FTF35QRV161, FTQ35QRV16, ATKM25/35QRV16, ATKP25/35QRV16, DTKM25/35QRV16, DTKP25/35QRV16, FTKM25/35QRV16, FTKP25/35QRV16
05 / 2016	Si041402EC	Model addition: ATC25QRV16, ATC25RRV162, ATC35RRV161, ATC42RRV162, ATF35RRV161, ATKM25/35RRV16, ATKP25/35RRV16, ATQ35RRV162, DTC25QRV16, DTC25RRV162, DTC35RRV161, DTC42RRV162, DTF35RRV161, DTQ35RRV162, DTKM25/35RRV16, DTKP25/35RRV16, FTC25QRV16, FTC35QRV1615, FTC25/42RRV162, FTC35RRV161, FTC35RRV1615, FTC42RRV1625, FTF35QRV1625, FTF35RRV161, FTF35RRV1615, FTQ35RRV162, FTQ35QRV1625, FTQ35RRV1625, FTUF35RRV161, FTKH35QRV16, FTKH35RRV16, FTKM25/35RRV16, FTKP25/35RRV16

Warning



- Daikin products are manufactured for export to numerous countries throughout the world. Prior to purchase, please confirm with your local authorised importer, distributor and/or retailer whether this product conforms to the applicable standards, and is suitable for use, in the region where the product will be used. This statement does not purport to exclude, restrict or modify the application of any local legislation.
- Ask a qualified installer or contractor to install this product. Do not try to install the product yourself. Improper installation can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Use only those parts and accessories supplied or specified by Daikin. Ask a qualified installer or contractor to install those parts and accessories. Use of unauthorised parts and accessories or improper installation of parts and accessories can result in water or refrigerant leakage, electrical shock, fire or explosion.
- Read the user's manual carefully before using this product. The user's manual provides important safety instructions and warnings. Be sure to follow these instructions and warnings.

If you have any enquiries, please contact your local importer, distributor and/or retailer.

Cautions on product corrosion

1. Air conditioners should not be installed in areas where corrosive gases, such as acid gas or alkaline gas, are produced.
2. If the outdoor unit is to be installed close to the sea shore, direct exposure to the sea breeze should be avoided. If you need to install the outdoor unit close to the sea shore, contact your local distributor.

Dealer

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