

## SPLIT TYPE ROOM AIR CONDITIONER OPERATION MANUAL



HSU09VHG(DB)-G	HSU09VHG(DB)-W
HSU12VHG(DB)-G	HSU12VHG(DB)-W
HSU18VHG(DB)-G	HSU18VHG(DB)-W
HSU24VHG(DB)-G	HSU24VHG(DB)-W
HSU109VHG-G	HSU218VHG-W
HSU-09HEG03/R2(DB)	2HUM18HC03/R2(DB)
HSU112VHG-G	
AS12GS1ERA	

- Please read this operation manual before using the air conditioner.
- HSU218VHG-W is variable-speed multi-split heat pump while others variable-speed mini-split.  
**Keep this operation manual for future reference.**

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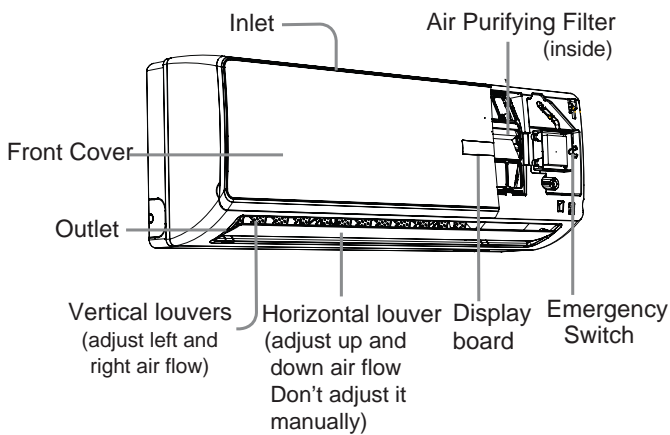
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Français



# Parts and Functions

## Indoor Unit



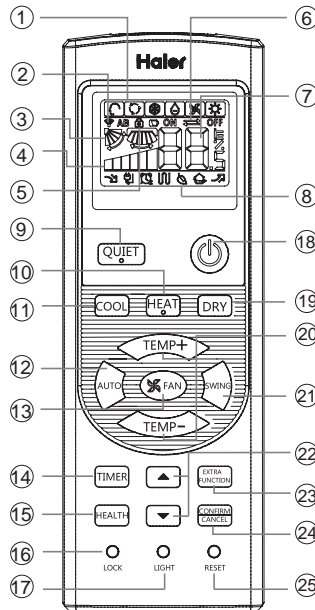
The unit pictured above is for reference only. Your product may appear different.

### Display board



- ① Signal receiver hole
- ② ON/OFF display
- ③ Ambient temp. display  
When receiving the remote control signal, display the set temperature will be shown in the display. The room temperature is displayed and this room temperature is only for reference.
- ④ TIMER ON display  
TIMER OFF display  
SLEEP display  
**Note to the Auto restart function:**  
Press the sleep button ten times in five seconds and enter the function after hearing four sounds. Press the sleep button ten times within five seconds and leave this function after hearing two sounds.
- ⑤ COOL\HEAT\DRY\AUTO display

## Remote Control



- 1. Mode display  

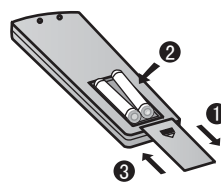
Operation mode	AUTO	COOL	DRY	HEAT	FAN
Remote controller					
- 2. Signal sending display
- 3. SWING display
- 4. FAN SPEED display  

Display circulated			
LO	MED	HI	AUTO
- 5. LOCK display
- 6. TIMER OFF display  
TIMER ON display
- 7. TEMP display
- 8. Additional functions display  

Operation mode	QUIET	SLEEP	HEALTH	POWER
Remote controller				
- 9. QUIET button
- 10. HEAT button
- 11. COOL button
- 12. AUTO button
- 13. FAN button
- 14. TIMER button
- 15. HEALTH button
- 16. LOCK button  
Used to lock buttons and LCD display.
- 17. LIGHT button  
Control the lightening and extinguishing of the indoor LED display board.
- 18. POWER ON/OFF button
- 19. DRY button
- 20. TEMP button
- 21. SWING button
- 22. HOUR button
- 23. EXTRA FUNCTION button  
Function: Fan Mode → Healthy airflow upward → Healthy airflow downward → Reset the healthy airflow position → Right & left airflow setting → A-B yard → 10°C low temperature heating → Sleep Mode → Electrical Heating → Refresh Air → Power → Fahrenheit/Celsius mode shift on unit and remote  
Remark: A-B yard, Right & left airflow setting, 10°C low temperature heating, Electrical Heating, Refresh Air functions are not available for this mini split series.
- 24. CANCEL/CONFIRM button  
Function: Setting and cancel to the timer and other additional functions.
- 25. RESET button  
If the remote is not functioning properly, use a pen point or similar object to depress the button to reset the remote

Healthy function is not available for some units.

## Inserting the Battery



- 1 Remove the battery cover;
- 2 Insert the batteries as illustrated.  
2 AAA batteries.
- 3 Be sure battery polarity is correct + -.
- 4 Then put on the cover again.

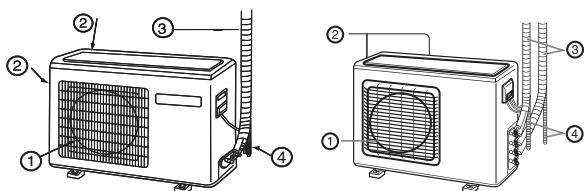
### Note:

- The distance from the remote to the receiver should be less than 23 feet (7 meters) with no obstructions.
- Fluorescent lights or cordless telephones will reduce the range of the remote.
- If the display is dim the remote batteries may need to be replaced.
- Remote malfunctions can sometimes be corrected by removing the batteries for a few minutes and then replacing them.

### Hint:

Remove the batteries if the unit won't be in use for a long period. If there is any display after taking-out the batteries, just press reset key.

## Outdoor Unit



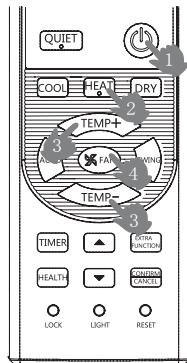
- ① OUTLET
- ② INLET
- ③ CONNECTING PIPING AND ELECTRICAL WIRING
- ④ DRAIN HOSE

The unit pictured above is for reference only. Your product may appear different.

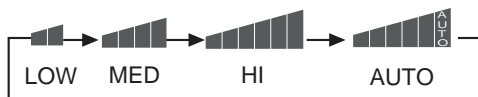
# Operation

## Basic Operation

Remote controller



- Unit start**  
Press ON/OFF on the remote controller, unit starts.
- Select operation mode**  
COOL button: Cooling mode  
HEAT button: Heating mode  
DRY button: Dehumidify mode
- Select temp.setting**  
Press TEMP+ / TEMP- button  
TEMP+ Every time the button is pressed, temp.setting increase 1°C / 2°F, if kept depressed, it will increase rapidly  
TEMP- Every time the button is pressed, temp.setting decrease 1°C / 2°F, if kept depressed, it will decrease rapidly  
Select a desired temperature.
- Fan speed selection**  
Press FAN button. For each press, fan speed changes as follows:  
Remote controller:



The air conditioner will be running at the speed shown in the display.  
When FAN is set to AUTO, the air conditioner automatically adjusts the fan speed according to room temperature.

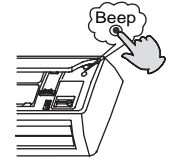
Operation Mode	Remote Controller	Note
AUTO		Under the mode of auto operation, air conditioner will automatically select Cool or Heat operation according to room temperature. When FAN is set to AUTO the air conditioner automatically adjusts the fan speed according to room temperature.
COOL		
DRY		In DRY mode, when room temperature is 2°C/4°F degrees less than the temperature set point, the unit will run intermittently at LOW speed regardless of FAN setting.
HEAT		In HEAT mode, warm air will blow out after a short period of the time due to cold-draft prevention function. When FAN is set to AUTO, the air conditioner automatically adjusts the fan speed according to room temperature.
FAN		In FAN operation mode, the unit will not operate in COOL or HEAT mode but only in FAN mode, AUTO is not available in FAN mode. And temp. setting is disabled. In FAN mode, sleep operation is not available.

## Emergency Operation and Test Operation

### Emergency Operation:

- Use this operation only when the remote controller is defective or lost, and with function of emergency running, air conditioner can run automatically in few seconds.
- When the emergency operation switch is pressed, the unit beeps once, which starts the operation.
- When power switch is turned on for the first time and emergency operation starts, the unit will run automatically in the following modes:

Room temperature	Designated temperature	Timer mode	Fan speed	Operation mode
Above 23°C/73°F	26°C / 79°F	No	AUTO	COOL
Below 23°C/73°F	23°C / 73°F	No	AUTO	HEAT

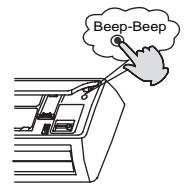


- During emergency operation it is impossible to change the settings of temp. and fan speed, it is also not possible to operate in Timer or Dry mode.

### Test Operation:

Test operation switch is the same as emergency switch.

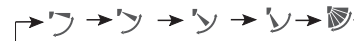
- Use this switch in the test operation when the room temperature is below 16°C / 60°F, do not use it in the normal operation.
- Continue to press the test operation switch for more than 5 seconds. After you hear two beeps, release your finger from the switch: the cooling operation starts with the air flow speed "HI".
- Under this operation mode, the fan motor of indoor unit will run in high speed.



## Air Flow Direction Adjustment

### 1. Status display of air flow

COOL/DRY:

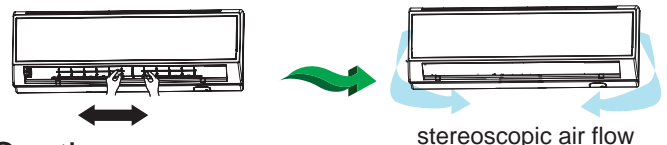


HEAT:



### 2. Left and right air flow adjustment (manual)

Move the vertical louver by a knob on air conditioner to adjust left and right direction to achieve stereoscopic air flow as the figure below.



### Cautions:



- When adjusting the louver by hand, turn off the unit.
- When humidity is high, condensate water might occur at air outlet if all vertical louvers are adjusted to left or right.
- It is advisable not to keep horizontal louver at downward position for a long time in COOL or DRY mode, otherwise, condensate water might occur.

Note:

When restarting the unit after it has been turned off, the unit will keep the swing position before it stops working.

# Operation

## Sleep Operation

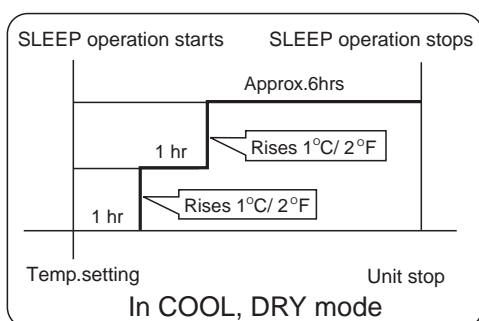
Press **EXTRA FUNCTION** button to enter additional options, cycle the display to ,  will flash. And then press **CONFIRM/CANCEL** enter for sleep function.



### Operation Mode

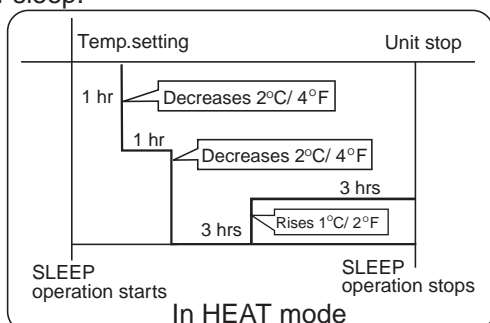
#### 1. In COOL, DRY mode

1 hour after SLEEP mode starts, temp. will become 1°C/2°F higher than temp. setting. After another 1 hour, temp. rises by 1°C / 2°F further. The unit will run for an additional 6 hours then stops. Temp. is higher than temp. setting so that room temperature won't be too low for your sleep.



#### 2. In HEAT mode

1 hour after SLEEP mode starts, temp will become 2 °C / 4°F lower than temp. setting. After another 1 hour, temp decrease by 2°C / 4°F further. After more another 3 hours, temp. rises by 1°C / 2°F further. The unit will run for an additional 3 hours then stops. Temp. is lower than temp. setting so that room temperature won't be too high for your sleep.



#### 3. In AUTO mode

If the unit is running cooling, the sleep mode will follow the function as in cool mode, while follow as in heat mode.

#### 4. In FAN mode

It has no SLEEP function.

#### 5. Fan Speed in Sleep Mode

When the unit is set to sleep mode, the fan speed will be set to low speed and it cannot be changed.



### Note

When TIMER function is set, the sleep function can't be set up. After the sleep function is set up, if user set up TIMER function, the sleep function will be cancelled; the machine will be in the state of timing-on.


## Power/Quiet Operation

### (1) Power Operation

When you need rapid heating or cooling, you can use this function.

Press **EXTRA FUNCTION** button to enter additional options, cycle the display to ,  will flash, and then press **CONFIRM/CANCEL**, enter to power function. To cancel this function, please select a different option.

### (2) Quiet Operation

You can use this function when silence is needed for rest or reading. Press QUIET button, the remote controller will show , and then achieve to the quiet function. To cancel this function, press the QUIET button.

### Note :

Running the unit in QUIET mode for a long period may cause the room temperature to not reach the set temperature. If this occurs, cancel QUIET mode and set the fan speed to a higher setting.

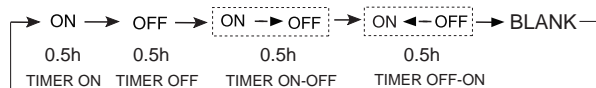
# Operation

## Timer On/Off On-Off Operation

1. After unit starts, select your desired operation mode.

2. Press TIMER button to change TIMER mode. Every time the button is pressed, display changes as follows:

Remote controller:



Then select your desired TIMER mode (TIMER ON or TIMER OFF or TIMER ON-OFF). " ON "or " OFF "will flash.

3. Press ▼ / ▲ button to set time.

▲ Press the button for each time, setting time in the first 12 hours increased by 0.5 hour every time, after 12 hours, increased by 1 hour every time.

▼ Press the button for each time, setting time in the first 12 hours decreased by 0.5 hour every time, after 12 hours, decreased by 1 hour every time.

It can be adjusted within 24 hours.

4. Confirm timer setting

After adjusting the time, press button and confirm the time the ON or OFF button will not flash any more.

5. Cancel timer setting

Press the timer button until the time display eliminated.

Hints:

After replacing batteries or a power failure happens, time setting should be reset.

According to the Time setting sequence of TIMER ON or TIMER OFF, either Start-Stop or Stop-Start can be achieved.

## Healthy Airflow Operation

1. Press to start

Setting for comfortable conditions.

2. The setting of healthy airflow function

Press button to enter additional options, Press this button continuously, the louvers location will cycle between the following three locations, to choose the swing location what you want, then button to confirm.



3. To cancel of the healthy airflow function

Press button to enter additional options, Press this button continuously, the louvers location will cycle between the three locations again, then button to cancel.

Notice: Do not direct the horizontal louver by hand. This may cause the louver to run incorrectly and not match the display. If the louver is not running correctly, stop the unit for a minute and then restart and adjust remote controller.

Note:

1. After setting the healthy airflow function, the position louver is fixed.

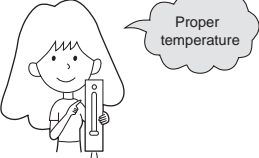
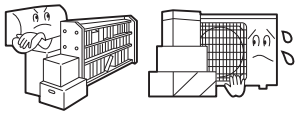


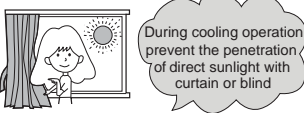
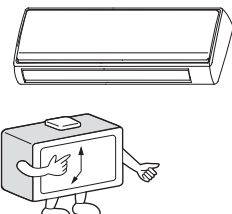


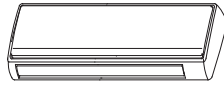
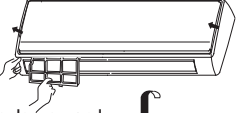
2. In heating, it is better to select the mode.

3. In cooling, it is better to select the mode.

4. In cooling and dry, using the air conditioner for a long time under the high air humidity, condensate water may occur at the grille .

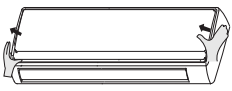
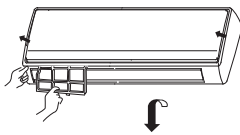

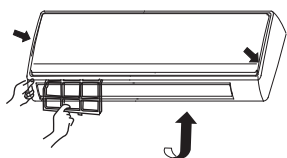

# Maintenance

## For Smart Use of The Air Conditioner

<p><b>Setting of proper room temperature</b></p> 	<p><b>Do not block the air inlet or outlet</b></p> 	<p><b>Remote Controller</b></p>  <p>Do not use water, wipe the remote with a dry cloth. Do not use glass cleaner or chemicals.</p>	<p><b>Indoor Unit</b></p>  <p>Wipe the air conditioner by using a soft and dry cloth. For serious stains, use a neutral detergent diluted with water. Wring the water out of the cloth before wiping, then wipe off the detergent completely.</p>
<p><b>Close doors and windows during operation</b></p> 	<p><b>Use the timer effectively</b></p> 	<p><b>Do not use the following for cleaning</b></p>  <p>Gasoline, benzene, thinner or cleanser may damage the coating of the unit. Hot water over 40°C (104°F) may cause discoloring or deformation.</p>	
<p><b>If the unit is not to be used for a long time, turn off the power supply main switch.</b></p> 	<p><b>Use the louvers effectively</b></p> 	<p><b>Air Filter Cleaning</b></p>  <ol style="list-style-type: none"> <li>Open the inlet grille by pulling it upward.</li> <li>Remove the filter. Push up the filter's center tab slightly until it is released from the stopper, and remove the filter downward.</li> <li>Clean the filter. Use a vacuum cleaner to remove dust, or wash the filter with water. After washing, dry the filter completely before putting it back in the unit.</li> <li>Attach the filter. Attach the filter correctly so that the "FRONT" indication is facing to the front. Make sure that the filter is completely fixed behind the stopper. If the right and left filters are not attached correctly, that may cause defects.</li> <li>Close the inlet grille.</li> </ol> <p>Once every two weeks</p>	

English

## Replacement of Air Purifying Filter

<p><b>1. Open the Inlet Grille</b></p> <p>Prop up the inlet grille by using the grille-support located on the right side of the indoor unit.</p>  <p><b>2. Detach the Standard Air Filter</b></p> <p>Slide the knob slightly upward to release the filter, then withdraw it.</p>  <p><b>Detach old Air Purifying Filter</b></p> 	<p><b>4. Attach the standard air filter</b></p> <p>(Necessary installation)</p> <p><b>ATTENTION:</b></p> <p>The white side of the photocatalyst air purifying filter faces outside, and the black side faces the unit. The green side of the bacteria-killing medium air purifying filter faces outside, and the white side faces the unit.</p> 
<p><b>3. Attach Air Purifying Filter</b></p> <p>Put air purifying filter into the right and left filter frames.</p> 	<p><b>5. Close the Inlet Grille</b></p> <p>Close the inlet grille securely</p> <p><b>NOTE:</b></p> <ul style="list-style-type: none"> <li>The photocatalyst air purifying filter will be solarized in fixed time. In normal use, it will be solarized every 6 months.</li> <li>The bacteria-killing medium air purifying filter will be used for a long time, no need for replacement. But in the period of using them, you should remove the dust frequently by using vacuum cleaner or flapping them lightly, otherwise, its performance will be affected.</li> <li>Please keep the bacteria-killing medium air purifying filter cool and dry. Avoid long term exposure to sunlight when not in use as its ability to sterilize will be reduced.</li> </ul>

# Cautions

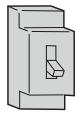
## ⚠ WARNING

This system must be installed by a qualified HVAC professional.

Do not install the air conditioner by yourself improper installation may cause fire, water leakage, personal injury or death.

## ⚠ WARNING

If something abnormal occurs immediately stop the operation button and contact service technician.

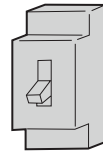


OFF



!  
STRICT  
ENFORCEMENT

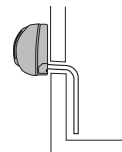
Connect to a single circuit outlet.



Check proper installation of the drainage securely



STRICT  
ENFORCEMENT



Connect power supply cord to the outlet completely



STRICT  
ENFORCEMENT

Use the proper voltage



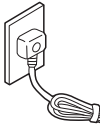
STRICT  
ENFORCEMENT

1. Do not use extension cords or plug adapters.  
2. Do not install in the place where there is any possibility of inflammable gas leakage around the unit.  
3. Do not get the unit exposed to vapor or oil steam.



PROHIBITION

Do not use power supply cord in a bundle.



PROHIBITION

Take care not to damage the power supply cord.



PROHIBITION

Do not insert objects into the air inlet or outlet of the outdoor unit..



PROHIBITION

Do not start or stop the operation by disconnecting the power supply cord.



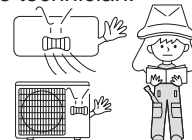
PROHIBITION

Do not channel the air flow directly at people.

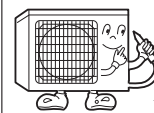


PROHIBITION

Do not attempt to repair the unit. Call for an authorized service technician.



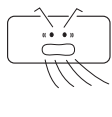
Connect the earth cable.



earthing

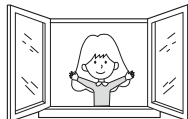
## ⚠ CAUTION

Do not place or store any objects on the indoor unit.



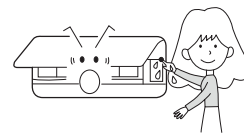
PROHIBITION

Take fresh air occasionally especially when gas appliance is running at the same time.



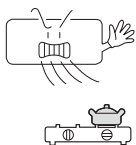
STRICT  
ENFORCEMENT

Do not operate the switch with wet hand.



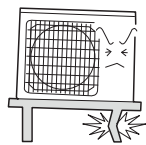
PROHIBITION

Do not install the unit near a fireplace or other heating apparatus.



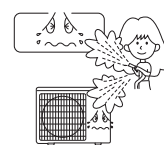
PROHIBITION

Install the outdoor unit securely on a base.



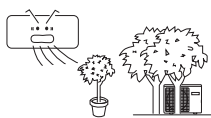
PROHIBITION

Do not pour water onto the unit for cleaning



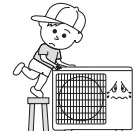
PROHIBITION

Do not place animals or plants in the direct path of the air flow



PROHIBITION

Do not place any objects on or climb on the outdoor unit.

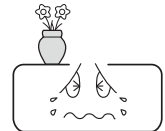


PROHIBITION

Do not place flower vase or water containers on the top of the unit.








PROHIBITION





# Trouble shooting

Before calling for service, check the following first.

	Phenomenon	Cause or check points
Normal performance inspection	The system does not restart immediately. 	<ul style="list-style-type: none"> <li>When unit is stopped, it won't restart immediately until 3 minutes have elapsed to protect the system.</li> <li>When the electric plug is pulled out and reinserted, the protection circuit will work for 3 minutes to protect the air conditioner.</li> </ul>
	Noise is heard 	<ul style="list-style-type: none"> <li>During unit operation or at stop, a swishing or gurgling noise may be heard. At first 2-3 minutes after unit start, this noise is more noticeable. (This noise is generated by refrigerant flowing in the system.)</li> <li>Should there be a big noise from air flow in unit operation, air filter may be too dirty.</li> </ul>
	Odors are present	<ul style="list-style-type: none"> <li>The system circulates any remaining odors.</li> </ul>
	Mist or steam are blown out. 	<ul style="list-style-type: none"> <li>During COOL or DRY operation, indoor unit may blow out mist. This is due to the sudden cooling of indoor air.</li> </ul>
	In dry mode, fan speed can't be changed.	<ul style="list-style-type: none"> <li>In DRY mode, when room temperature becomes lower than temp. setting+2 °C, unit will run intermittently at LOW speed regardless of FAN setting.</li> </ul>
Multiple check		<ul style="list-style-type: none"> <li>Is the power chord correctly position in the outlet?</li> <li>Is there a power failure?</li> <li>Has a fuse or circuit breaker been tripped?</li> </ul>
	Poor cooling 	<ul style="list-style-type: none"> <li>Is the air filter dirty? Normally it should be cleaned every 14 days.</li> <li>Are there any obstacles in front of inlet and outlet?</li> <li>Is temperature set correctly?</li> <li>Are there some doors or windows left open?</li> <li>Is there any direct sunlight through the window during the cooling operation?(Use curtain)</li> <li>Are there too many heat sources or too many people in the room during cooling?</li> </ul>

# Cautions

- Do not obstruct or cover the ventilation grille of the air conditioner. Do not put fingers or any objects into the inlet/outlet and swing louver.
- Do not allow children to play with the air conditioner. In no case should children be allowed to sit on the outdoor unit.

## Specifications

- The refrigerating circuit is a sealed system.

The machine is adaptive in following situation

1. Applicable ambient temperature range:

Cooling	Indoor	Maximum:D.B/W.B 89.6°F/73.4°F Minimum:D.B/W.B 67°F/57°F
	Outdoor	Maximum:D.B/W.B 115°F/75°F Minimum: D.B 67°F/57°F
Heating	Indoor	Maximum:D.B 80.6°F Minimum: D.B 32°F
	Outdoor	Maximum:D.B/W.B 75°F/65°F Minimum:D.B/W.B 19.4°F
	Outdoor (INVERTER)	Maximum:D.B/W.B 75°F/65°F Minimum:D.B 5°F

- If the power supply cord is damaged, it must be replaced by the manufacturer or its service agent.
- All electrical wiring must be done to applicable local and state codes.
- An electrical outlet must be within distance of the indoor unit.
- When replacing batteries, the batteries removed should be disposed of properly.
- Assure that the proper outlet is being used with the power cord.
- The power plug and connecting cable must have acquired the local attestation.
- In order to protect the units, please turn off the unit first, wait 30 seconds and turn off the power.



# Haier

# REMOVAL PROCEDURE

## Wall Mounted Type DC Inverter FREE MATCH EK-Series SERIES:35EK



### **WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or Repair the product or products dealt with in this service information by anyone else could result in serious injury or death

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**Haier Group**

Version: V1

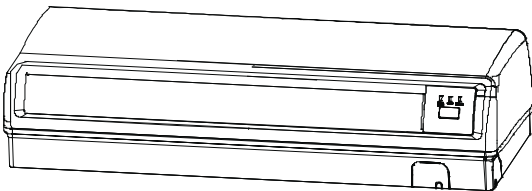
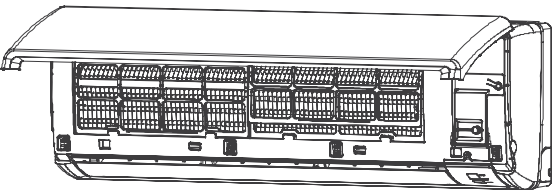
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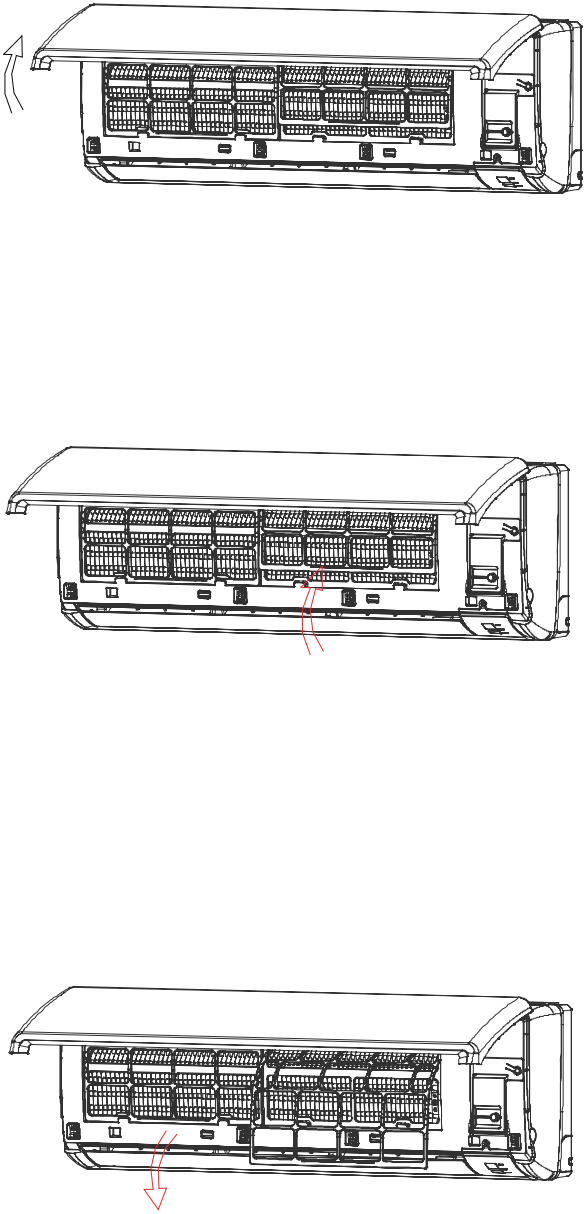
# 1. Removal of Air Filter

Procedure



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

Step	Procedure	Points
1. Features		
2. Remove the air filters.	<p>1 Hold the front panel by the tabs on the both sides and lift it until it stops with a click.</p>	
		

Step	Procedure	Points
<p>2 Lift an air filter upwards slightly and then pull it out downwards.</p>		<ul style="list-style-type: none"> <li>■ Please embed the air filters into the unit along the grooves as installation.</li> <li>■ Please embed the two hooks on air filter completely into the unit during installation.</li> </ul>

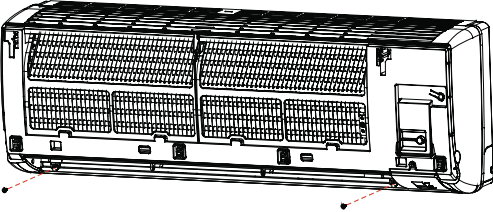
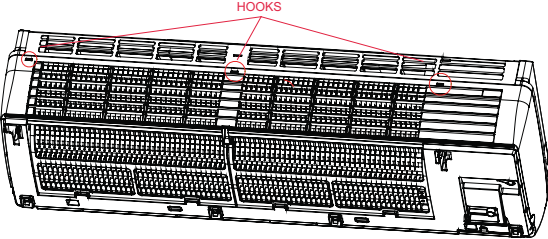
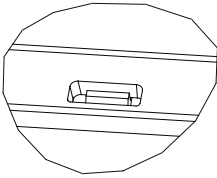
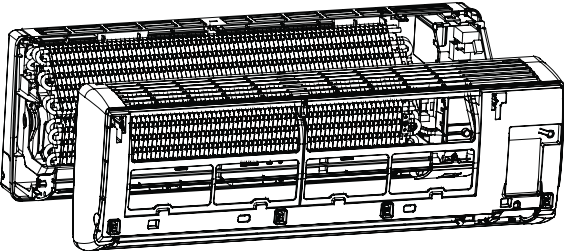
## 2. Removal of front panel

Procedure



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

Step	Procedure	Points
<p>1. Remove the front panel.</p> <p>1 □pen the front panel until it is on the horizontal position, and then release the pivots on both sides of the unit to remove the front panel.</p>		<ul style="list-style-type: none"> <li>■ Please close the panels before start the removal procedure of front grille.</li> <li>■ □lide the front panel from one side to another to release each axis.</li> <li>■ When assembling, align the right and left axes with grooves in turn and insert them to the end.</li> </ul>

Step		Procedure	Points
2	Loosen the marked two screws		
3	Release the marked three hooks.	 	
4	Pull the front grille out horizontally and remove it.		<ul style="list-style-type: none"> <li>■ When assembling, install the front grille horizontally so as not to stuff the flap inside.</li> <li>■ When assembling, make sure the three hooks are caught properly.</li> </ul>

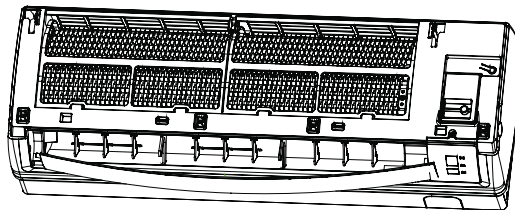
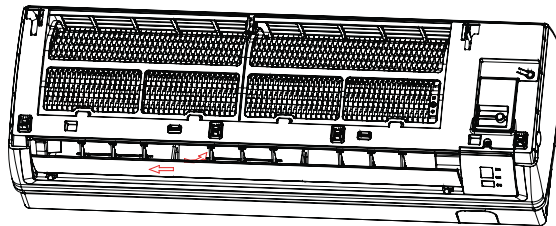
### 3. Removal of horizontal flap

Procedure



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

Step	Procedure	Points
1. Remove the horizontal		
1	Release the center pivot.	<ul style="list-style-type: none"> <li>■ The horizontal flap is single.</li> </ul>
2	Bend the horizontal blade slightly and remove it.	<ul style="list-style-type: none"> <li>■ Installation procedure                             <ol style="list-style-type: none"> <li>1. Since key pattern hook is provided, rotate the flap and fit it to the left pivot first.</li> <li>2. Fit the flap to the right pivot.</li> <li>3. Fit the flap to the center pivot.</li> </ol> </li> </ul>



# 4. Removal of Drain pan

Procedure



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

Step	Procedure	Points
<p>1. Remove the Drain pan</p>	<div data-bbox="541 517 1110 723" data-label="Image"> </div> <div data-bbox="204 775 474 869" data-label="Text"> <p>1 Loosen the marked screws under the screw covers</p> </div> <div data-bbox="632 938 986 1211" data-label="Image"> </div> <div data-bbox="847 1252 1002 1317" data-label="Text"> <p>hook</p> </div> <div data-bbox="204 1064 512 1191" data-label="Text"> <p>2 Lift up the lower part of the grille to release the hook on the upper backside.</p> </div> <div data-bbox="204 1444 521 1608" data-label="Text"> <p>3 Rotate the upper part of the grille to release the hook on the lower back side. Pull out the drain pan</p> </div> <div data-bbox="568 1444 1086 1731" data-label="Image"> </div>	

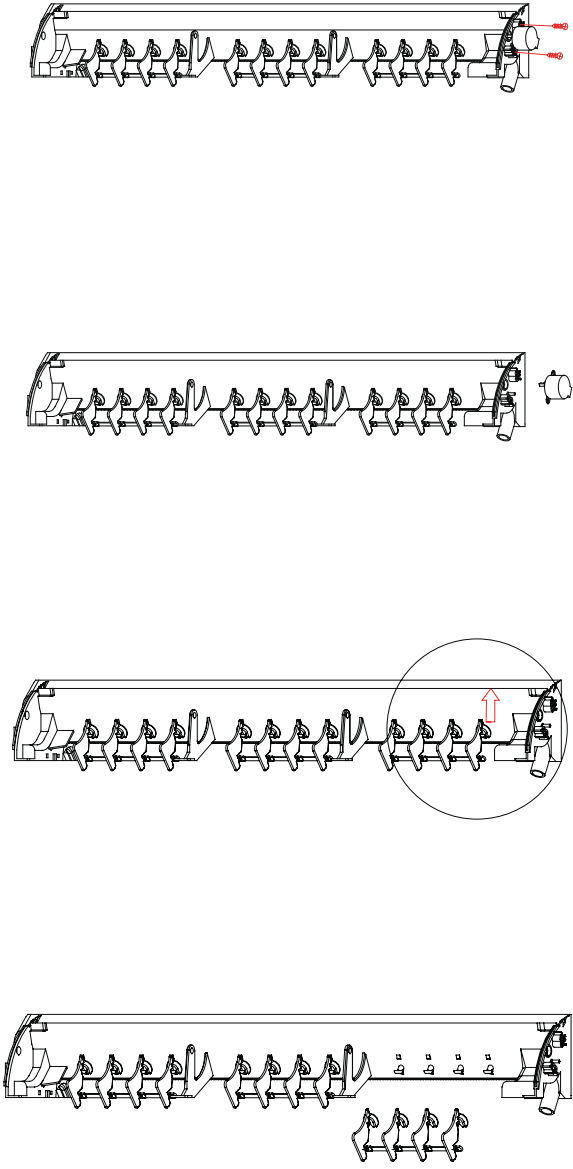
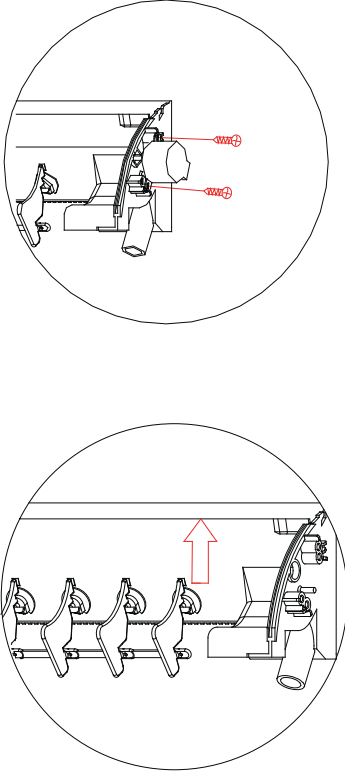


## 5. Removal of vertical blades and swing motor

Procedure



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

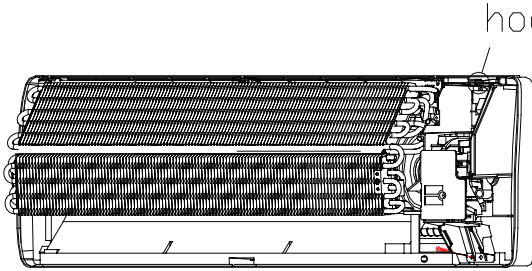
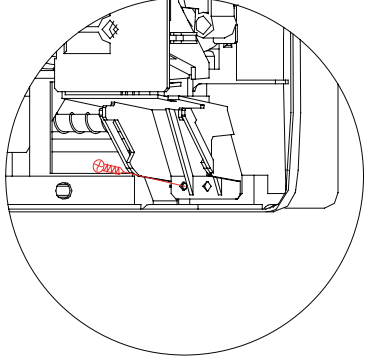
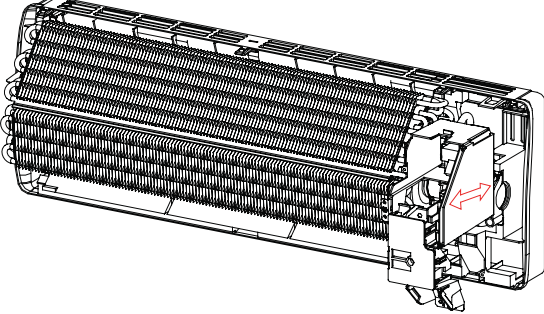
Step	Procedure	Points
<p>■ Remove the assembly of the outlet grille.</p>		
<p>1. Remove the vertical blades.</p>		
<p>1 Push the hooks on the back of the vertical blades and remove.</p>		

## 6. Removal of Electrical Box

Procedure



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

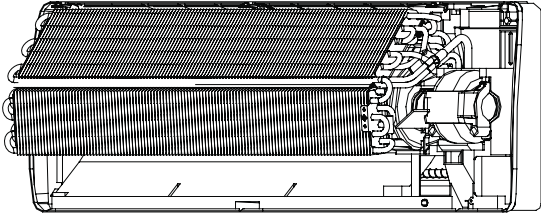
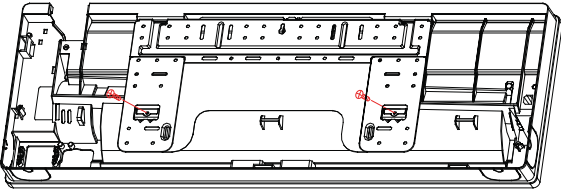
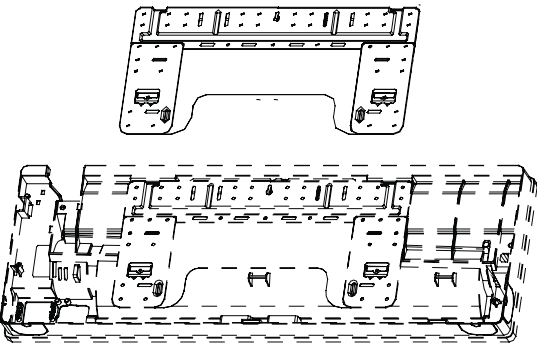
Step	Procedure	Points
<p>■ Remove the front grille. 1. Remove the electrical box.</p>		
<p>1 Loosen the screw of the drip proof plate.</p>		<p>■ Discharge the static electricity from your body before touching the electrical parts like signal receiver PCB. It may cause malfunction of PCB.</p> 
<p>2 Lift and remove the electrical box.</p>		<p>■ When assembling, insert the left hook of the drip proof plate into the hem plate of the heat exchanger.</p>

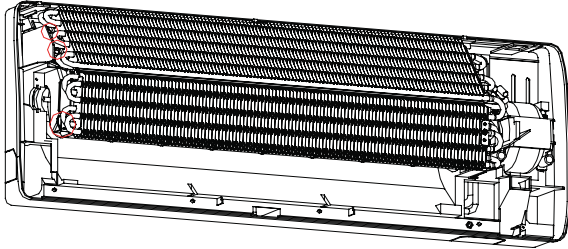
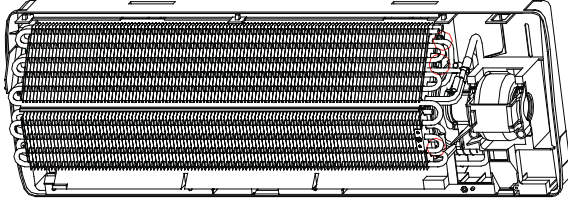
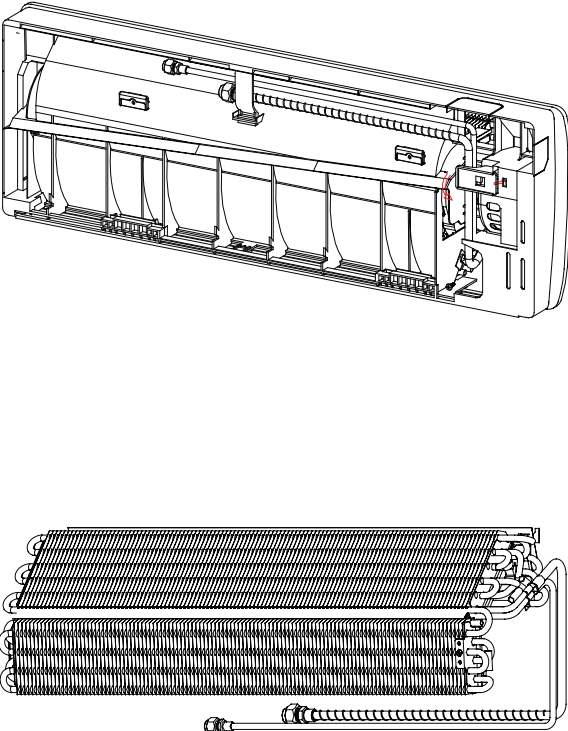
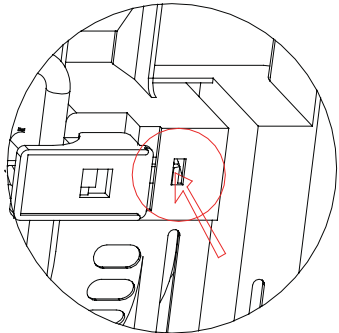
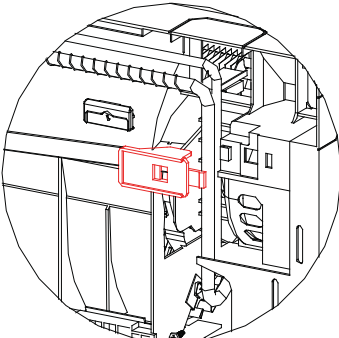
## 7. Removal of Heat Exchanger

Procedure



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

Step	Procedure	Points
		<ul style="list-style-type: none"> <li>■ You can detach the indoor unit without removing the assembly of the outlet grille.</li> </ul>
1	<p>Loosen the screws fixed to the installation plate.</p> 	<p><b>Caution</b> If gas leaks, repair the spot of leaking, then collect all refrigerant from the unit. After conducting vacuum drying, recharge proper amount of refrigerant.</p>
2	<p>Loosen the marked hooks</p> 	<p><b>Caution</b> Do not contaminate any gas (including air) other than the specified refrigerant (R410A), into refrigerant cycle. (Contaminating of air or other gas causes abnormal high pressure in refrigerating cycle, and this results in pipe breakage or personal injuries.)</p>
3	<p>Loosen the marked screws and remove mounting plate</p> 	<ul style="list-style-type: none"> <li>■ Pay attention so that the residual water in the drain will not make the floor wet.</li> <li>■ In case that a drain hose is buried inside a wall, remove it after the drain hose in the wall is pulled out.</li> <li>■ Use two wrenches to disconnect pipes.</li> <li>■ When disconnecting pipes, cover every nozzle with caps so as not to let dust and moisture in.</li> </ul>

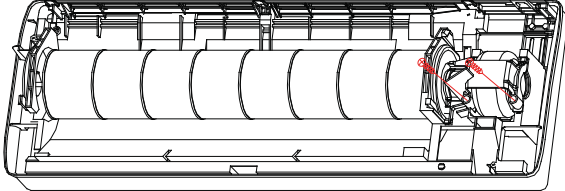
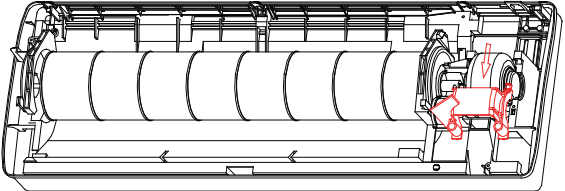
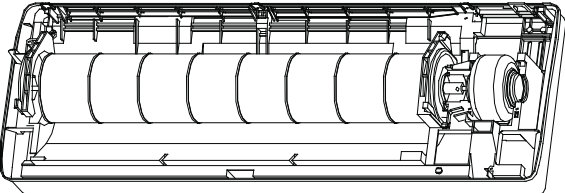
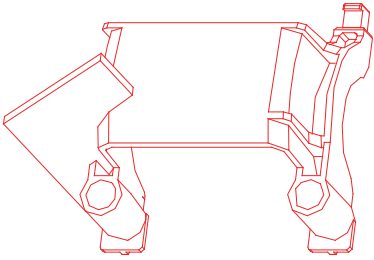
Step	Procedure	Points
1	<p>Release the hooks</p> 	
2	<p>Release the hook from the back side. Lift up the lower part of the fixture plate and remove it.</p> 	
6	<p>Remove the heat exchanger</p> 	 

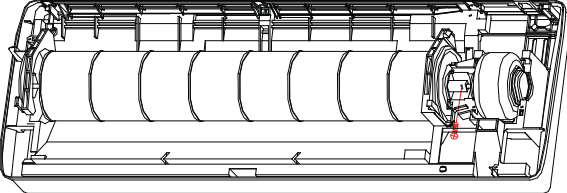
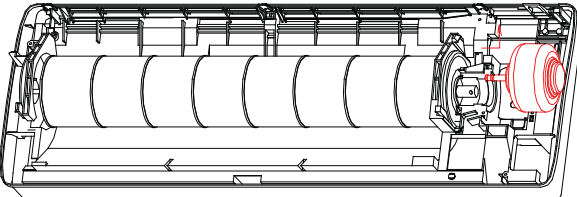
## 8. Removal of Fan Rotor and Motor

Procedure



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

Step	Procedure	Points
1.	Remove the right side plate.	
1	Loosen the 2 screws.	
2	Remove the fixing plate.	
		
		
		
		

Step	Procedure	Points
<p>3. Remove the fan.</p> <p>1</p> <p>2</p> <p>3</p>	<p>Loosen the marked screw.</p>  <p>Lift up the right part of the fan motor and slide it to the rightward to remove.</p>  <p>Lift up the right part of the fan and remove it</p> 