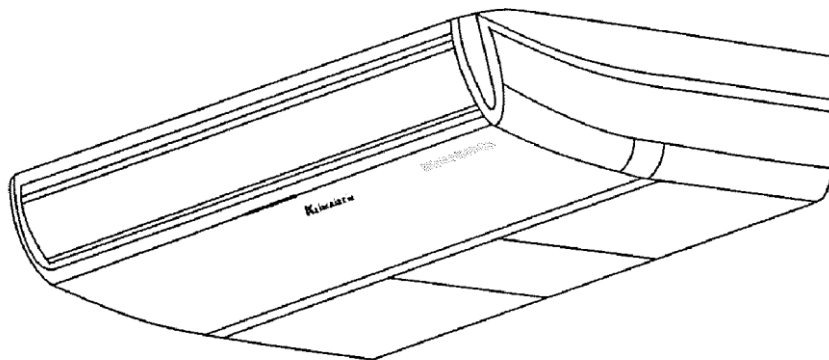


# KFLIF

## SERIES



## KLIMAIRE®

Ceiling And Floor Type AIR CONDITIONER

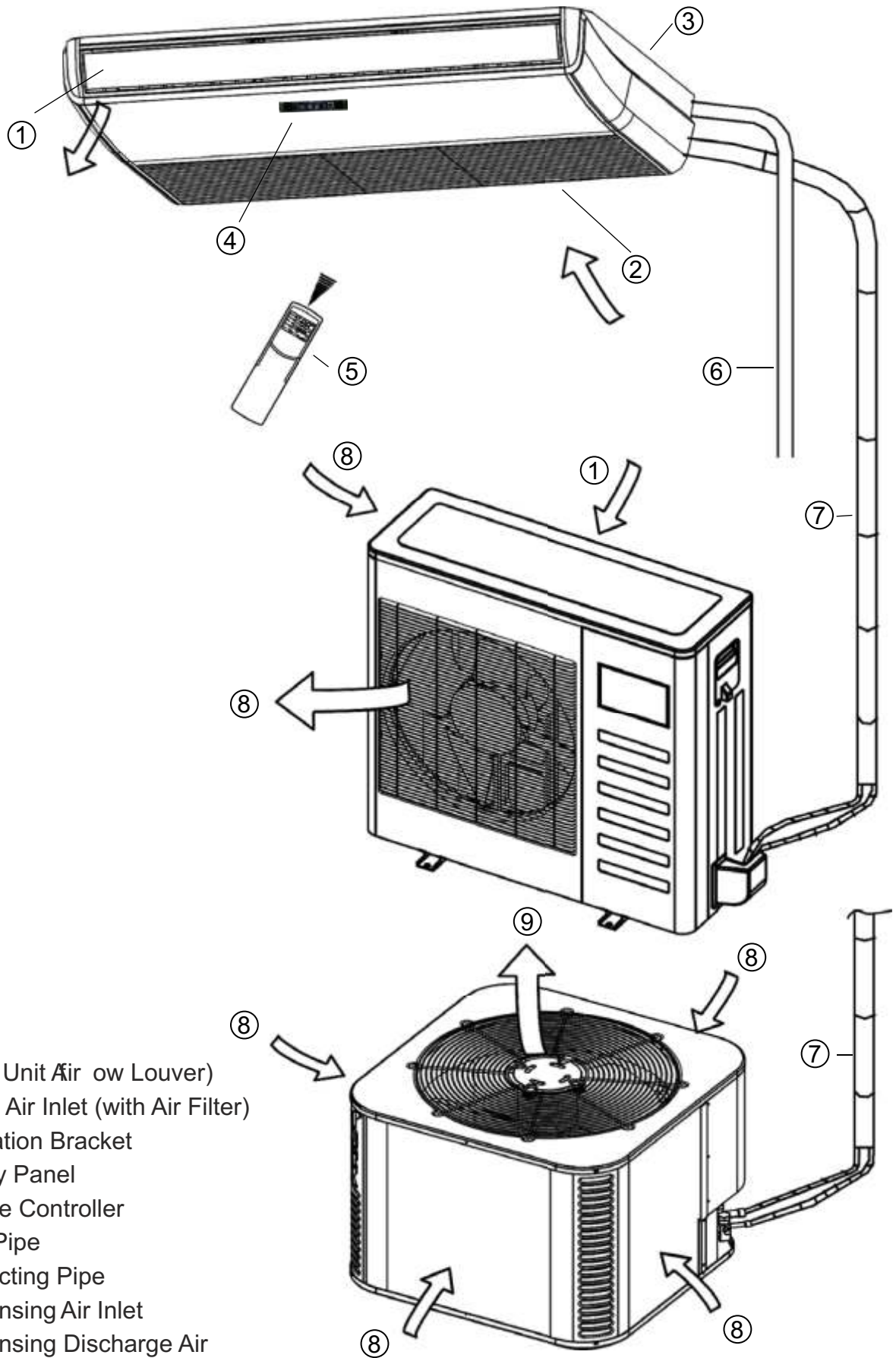
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# User's Manual

### IMPORTANT NOTE:

Read this manual carefully before installing or operating your new air conditioning unit. Make sure to save this manual for future reference.





1. Indoor Unit Air Flow Louver
2. Return Air Inlet (with Air Filter)
3. Installation Bracket
4. Display Panel
5. Remote Controller
6. Drain Pipe
7. Connecting Pipe
8. Condensing Air Inlet
9. Condensing Discharge Air

## 1. IMPORTANT SAFETY INFORMATION

To avoid possible equipment damage, fire, or death, the following instructions must be observed regarding unit installation, maintenance and operational procedures.

Please read all information in this manual thoroughly and become familiar with the capabilities and use of your appliance before attempting to operate or maintain this unit. Pay attention to all safety warnings and any other special notes highlighted in the manual. Safety markings are used frequently throughout this manual to designate a degree or level of seriousness and should not be ignored.



### WARNING

Indicates a potentially hazardous situation that if not avoided, could result in personal injury or death.



### CAUTION

Indicates a potentially hazardous situation that if not avoided may result in minor or moderate injury or property damage.

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## WARNING

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- Under no circumstances should the appliance owner attempt to install and/or service this equipment. Some local codes require licensed installation and service personnel for this type of equipment. Improper service, adjustment, or maintenance may cause explosion, fire, electric shock or other hazardous conditions which may result in personal injury or property damage.
- Read these instructions thoroughly before using the equipment. Follow all the precautions and warnings contained within these instructions and on the unit.
- Improper installation, adjustment, alteration, service, or maintenance can cause personal injury or property damage. Refer to this manual. For assistance or additional information, consult a qualified installer or service contractor.
- Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this appliance.
- This air conditioner contains liquid and gaseous refrigerant under pressure. Installation and servicing should only be attempted by qualified, trained personnel thoroughly familiar with the equipment and safe responsible refrigerant handling procedures. Failure to comply with this warning could result in equipment damage, personal injury, or death.
- To avoid electrical shock, personal injury, or death, disconnect all electrical power to the unit before performing any maintenance or service. The unit may have more than one electrical supply.



## CAUTION

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- To achieve optimum performance and minimize equipment failure, it is recommended that periodic maintenance be performed on this unit. The ability to properly perform maintenance on this equipment requires certain mechanical skills and tools. Please consult your dealer for maintenance information and availability of maintenance contract.
- The area around the cooling unit must be kept clear and free of combustible materials, gasoline, and other flammable vapors and liquids. Do not store or use flammable items such as paint, varnish, or strippers in the vicinity of the unit.
- Do not use the area around the unit as a storage area. This area must be kept clean and clear of loose or exposed insulation materials. Examine the unit's area when it is installed or when insulation is added, since some insulation materials may be combustible.

- Do not use this appliance if any part has been under water. Immediately call a qualified service technician to inspect the unit and to replace any part of the control system which has been under water.
- Familiarize yourself with the controls that shut off the electrical power to the unit. If it needs to be shut down for an extended period of time, turn off electrical power at the circuit breaker. For your safety always turn off the electrical power before performing service or maintenance on the unit.

## 2. ABOUT THE AIR CONDITIONER

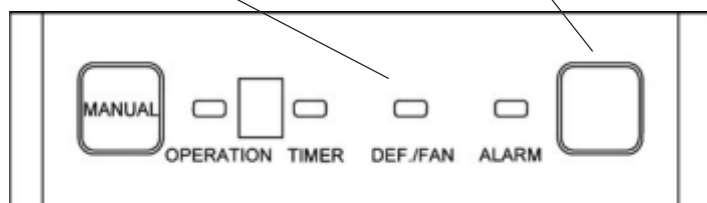
This split system unit has been designed and built to provide many years of safe and dependable comfort, providing it is properly installed and maintained. With the regular maintenance, this unit will operate satisfactorily year after year. Abuse, improper use, and/or improper maintenance can shorten the life of the appliance and create unsafe hazards. A regular service and maintenance schedule should be established to ensure efficient and safe operation of the unit.

## 3. TEMPORARY OPERATION

### • Display Panel Function Indicators.

NOTE: DEF (Cooling and Heating Type) or FAN for Cooling Only

Infrared Signal receiver



This function is used to operate the unit temporarily in case you misplace the remote controller or its batteries are exhausted. Two modes including AUTO and FORCED COOL can be selected through the MANUAL BUTTON on the display panel of the unit. Once you press this button with a thin stick, the air conditioner will operate in such order: AUTO, FORCED COOL, OFF, and back to AUTO.

### 1. AUTO

The OPERATION lamp is lit and the air conditioner will run under AUTO mode. The remote controller operation is enabled to operate according to the signal received.

### 2. FORCED COOL

The OPERATION lamp flashes, the air conditioner will turn to AUTO after it is enforced to cool with the fan speed at HIGH for 30 minutes. The remote controller operation is disabled.

### 3. OFF

The OPERATION lamp goes off. The air conditioner is OFF while the remote controller operation is enabled.

## 4. AIR CONDITIONER OPERATION AND PERFORMANCE.

Use the system in the following temperature for safe and effective operation. The Max operation temperature for the air conditioner. (Cooling/Heating)

Temperature Mode	Outdoor Temperature	Room Temperature
Cooling Operation	18°C ~ 43°C	17°C ~ 32°C
Heating Operation	-7°C ~ 24°C	0°C ~ 30°C
Dry Operation	18°C ~ 43°C	17°C ~ 32°C



## NOTE

1. If air conditioner is used outside the above conditions, it may cause the unit to function abnormally.
2. It is normal for the air conditioner to have some condensation if the relative humidity in the room is high. Please close doors and windows.
3. Optimum performance will be achieved within these operating temperature range.

### • Three-minute protection feature

A protection feature prevents the air conditioner from being activated for approximately 3 minutes when it restarts immediately after operation.

- **Power Interruption**

Power failure during operation will stop the unit completely.

- The OPERATION lamp on the display panel will start flashing when power is restored.
- To restart operation, push the ON/OFF button on the remote controller.
- Lighting or car wireless telephone operating nearby may cause the unit to malfunction.

Reset the power to the unit. Push the ON/OFF button on the remote controller to restart operation.

- **Refrigerant Leakage Detection (optional):**

With this new technology, 'EC' will appear in the display area (if applicable) and the LED indicator lamps will continue flashing when the outdoor unit detects refrigerant leakage.

- **Louver Angle Memory Function (optional):**

For some models, units are designed with louver memory function. During power interruption or pressing the ON/OFF button on the remote controller and unit stop completely. When power is restored or pressing the ON/OFF button again, the unit restarts automatically with the previous open angle of the horizontal louver by the memory function.

## 5. HINTS FOR ECONOMICAL OPERATION

- Adjust the air flow direction properly to avoid winding toward your body.
- Adjust the room temperature properly to get comfortable situation and to avoid super cooling and super heating.
- In cooling, close the curtains to avoid direct sunlight.
- To keep cool or warm air in the room, never open doors or windows more often than necessary.
- Set the timer for the desired operating time.
- Never put obstruction near the outlet or the air inlet..

- If unit will not be used for long period, please disconnect power and remove batteries from the remote controller. When re-starting again, turn on the power 12 hours before to ensure smooth operation.
- Clean the air filter regularly. Clogged filter reduces the capacity and efficiency of the unit.

## 6. ADJUSTING AIR FLOW DIRECTION

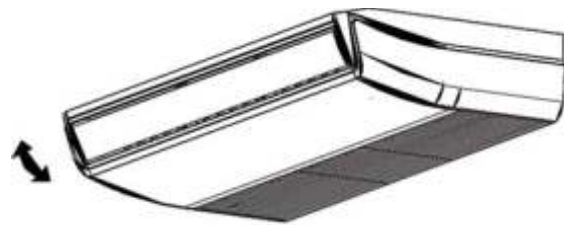
### Horizontal Louver Adjustment

- **Auto-Swing**

Press SWING V button, the louver will swing up and down automatically.

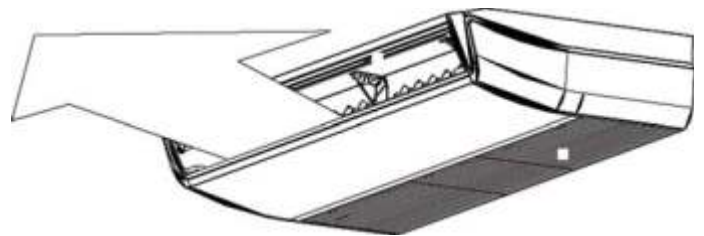
- **Manual Swing**

Adjust the louver to achieve better cooling/heating effects.



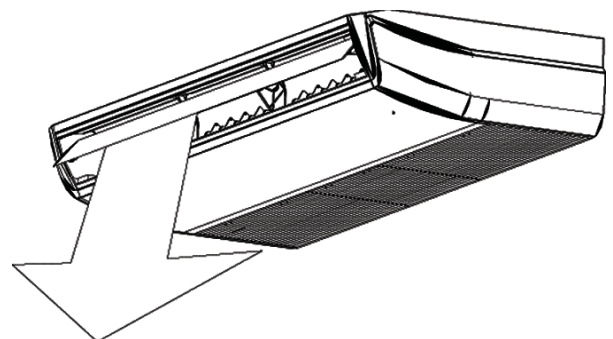
### When Cooling

Adjust the louver horizontally)



### When Heating

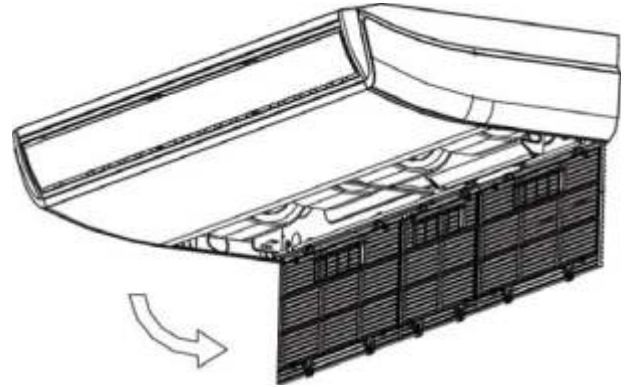
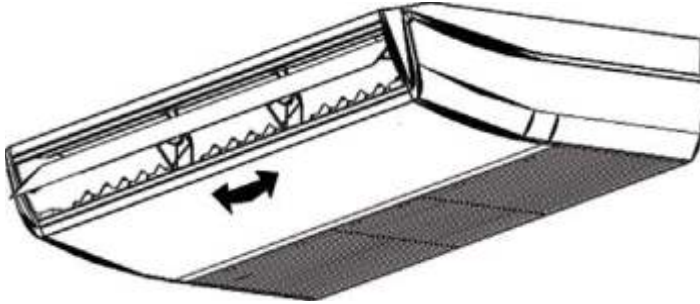
(Adjust the louver downward)



## Vertical Louver Adjustment

- **Auto-Swing**

Press SWING **H** button, the louver will swing left and right automatically.

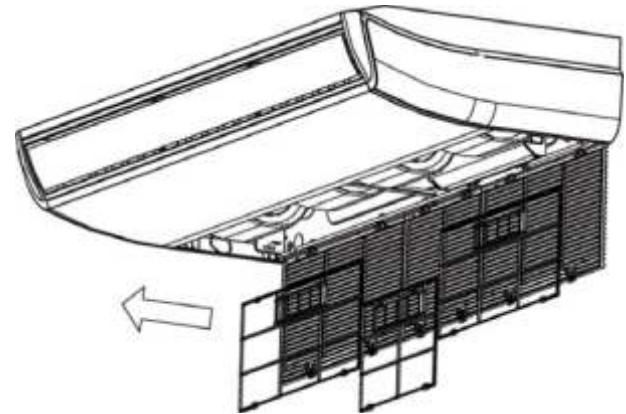


Take out the air filter from the return grill and clean it with water or vacuum cleaner.

## 7. MAINTENANCE

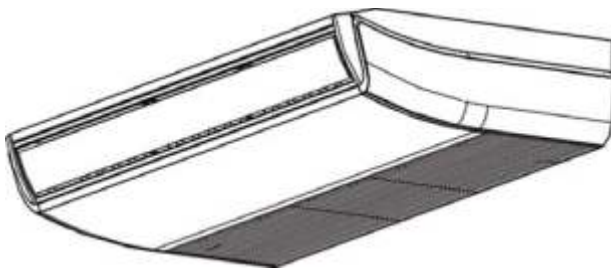
### **⚠ CAUTION**

- Before you clean the air conditioner, be sure the power supply is off.
- Check the wiring is not broken off or disconnected.
- Use a dry cloth to wipe the indoor unit and remote controller.
- Never use a damp cloth on the remote controller.
- Do not use a chemically-treated duster for wiping or leave such material on the unit for long. It may damage or fade the surface of the unit.
- Do not use benzene, thinner, polishing powder, or similar solvents for cleaning. These may cause the plastic surface to crack or deform.



Dry the air filter in a cool place and re-installed it on the return grill. Screw back the return grill to the unit.

### **CLEANING THE AIR FILTER**



Open the return grill by using a screw driver.

## 8. TROUBLESHOOTING

- **The System Does Not Operate**

The outdoor unit has a 3 minute time delay for the compressor to start. When the OPERATION lamps light up, the system is running.

- **Mist Comes Out From The Unit**

This occurs when the humidity in the room is high and the unit is dirty.

- **Noise On The Indoor Unit.**

A continuous low "shah" sound can be heard during cooling operation. This is a normal sound of the refrigerant gas.

A hissing sound is also heard when the compressor stops.

















## TROUBLESHOOTING (Continue)

If one of the following malfunctions occur, turn off the unit, shut off the power supply and contact a qualified service technician.

- The OPERATION lamp is flashing rapidly (5Hz). (Refer to the ERROR Codes Table)
- Remote controller buttons does not work well.
- A safety fuse or breaker frequently actuates.
- Water or foreign objects enters the unit.
- Water leaks from the unit.

If the system does not properly operate except from the above mentioned cases, please refer to Unit Symptoms Table:

**ERROR Codes Table:**

	MALFUNCTION	LED 1 OPERATION	LED 2 TIMER	LED 3 DEF./FAN	LED 4 ALARM	DISPLAY DIGITAL TUBE
1	Room temperature sensor.					E2
2	Pipe temperature sensor					E3
3	Outdoor temperature sensor					E4
4	Outdoor Malfunction					E6
5	Outdoor Pipe Temperature sensor					E5
6	EEPROM malfunction					E7
7	Water Level Alarm Function					E8
8	Refrigerant Leak detection					EC
 Light  Flashing at 5 HZ  Flashing at 1 HZ						

## Unit Symptom

Symptoms	Causes	Solution
Unit Do Not Start	<ul style="list-style-type: none"> <li>Power Failure</li> <li>Power Switch is Off</li> <li>Blown Out Fuse</li> <li>Remote Controller Problem</li> </ul>	<ul style="list-style-type: none"> <li>Wait for Power to Comeback</li> <li>Switch On the Power Supply</li> <li>Replace Fuse / Reset Breaker</li> <li>Check Controller /Replace Batteries.</li> </ul>
Good Airflow but Not Cooling	<ul style="list-style-type: none"> <li>Temperature is not set correctly</li> <li>Unit in 3 minutes time delay</li> </ul>	<ul style="list-style-type: none"> <li>Set the desired temperature</li> <li>Wait for the outdoor unit to run.</li> </ul>
Unit Start or Stop Frequently	<ul style="list-style-type: none"> <li>Refrigerant is too little or too much.</li> <li>Air is present in the system</li> <li>Compressor Malfunction</li> <li>Voltage is too high or too low</li> </ul>	<ul style="list-style-type: none"> <li>Check and repair gas leak and rightly charge refrigerant</li> <li>Vacuum and recharge refrigerant gas.</li> <li>Replace the compressor</li> <li>Install a voltage regulator</li> </ul>
Low Cooling Effect	<ul style="list-style-type: none"> <li>Indoor and Outdoor heat exchanger are dirty.</li> <li>Air Filters are dirty</li> <li>Supply and return air are blocked.</li> <li>Room doors and windows are open.</li> <li>Outdoor Temperature is too high</li> <li>Lack of refrigerant gas.</li> </ul>	<ul style="list-style-type: none"> <li>Clean the heat exchanger</li> <li>Clean the air filter</li> <li>Remove things that are blocking the supply and return air.</li> <li>Close doors and windows</li> <li>Consider relocating the outdoor unit in a shade.</li> <li>Check for leak and recharge with refrigerant gas.</li> </ul>

## Remote Control Symptom

Symptoms	Causes	Solution
The Fan Speed cannot be changed	<ul style="list-style-type: none"> <li>Check whether the MODE indicated on the display is "AUTO"</li> <li>Check whether the MODE indicated on the display is "DRY"</li> </ul>	<ul style="list-style-type: none"> <li>When AUTO mode is selected, the air conditioner will automatically change the fan speed.</li> <li>When DRY mode is selected, The fan speed is automatically selected.</li> </ul>
Remote Controller cannot transmit signal	<ul style="list-style-type: none"> <li>Check remote control batteries</li> </ul>	<ul style="list-style-type: none"> <li>Replace Batteries</li> <li>Check if Unit has power supply.</li> </ul>





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