Thank you for purchasing the AIR CONDITIONER. Before operation please read this user’s manual carefully.

- Keep this manual on hand for reference.
- AIR CONDITIONER is specified for use on the rated voltage power supply. For use outside the local electricity supply, should be checked by a qualified electrician.

- It is ESSENTIAL that you read ‘NOTES ON SAFETY’ carefully before use and follow them at all times.
- The Warranty form is on Page 20. Please complete it now and keep it in a safe place.
- We have a policy of continual improving on our products. The contents (features and specifications) in this manual are therefore subject to change without notice.
# TABLE OF CONTENTS

- **SAFETY INSTRUCTIONS** ......................................................... 3
- **PRECAUTIONS FOR USE** ..................................................... 4
- **EXTERIOR DESCRIPTION** .................................................... 5
- **SPECIFICATION** ............................................................... 6
- **CONTROL PANEL FUNCTIONS** ............................................ 7
- **MODE CHANGING METHOD** .................................................. 8
- **HOW TO SET THE 'OFF' TIMER** ....................................... 9
- **TEMPERATURE CONTROL OPERATION** ................................. 10
- **SELECTION OF LOCK OR UNLOCK** ...................................... 11
- **'ERROR' and WARNING INDICATORS** .................................. 12
- **TROUBLE SHOOTINGS** ....................................................... 13
- **CLEANING AND MAINTENANCE** ......................................... 14
- **HOW TO INSTALL & PRECAUTIONS** ................................... 15~16
- **ACCESSORIES** ................................................................. 17
- **WARRANTY** ..................................................................... 20
SAFETY INSTRUCTIONS

These are contents for keeping the safety and preventing the property damage. Please read and use correctly.

- Precautions at this page are for the safe and correct use of the unit and for the preventing a danger and damage of the operator or others. With regard to the contents, these are classified into <WARNING> and <CAUTION>. These are important for the safety, so please observe them without fail.

| WARNING | This is the content that when a faulty handling is done, a person's death or heavy injury is expected.
| CAUTION | This is the content that when a faulty handling is done, a person's injury or property damage is expected.

Meaning of the figural symbol

odos indicates a prohibition. 　！！ indicates a matter that must be done without fail.

| WARNING | As for a damage that occurs during non-keeping the following cautions, the manufacturing company cannot be responsible for the compensation.

- Use an outlet for exclusive use of alternative current 115V.
  (A fire or electric shock may be caused.)

- Do not use a damaged electric cord, plug or loosened outlet.
  (An electric shock, short or fire may be caused.)

- Do not pull out the cord or touch the power plug with a wet hand.
  (An electric shock, fire may be caused.)

- Do not connect or extend a power cord in the middle of it.
  (An electric shock, fire may be caused.)

- When cleaning, pull out the plug without fail.
  (An electric shock may be caused.)

- Do not connect to other power outlet or home appliance by using extension cord.

- Do not insert a finger or stick into blowing hole. Hurt may be caused, so give a warning to children.

- After wipe out dusts from the power plug, insert it correctly into outlet.
  (Due to electric shock or short, a smoking or fire may happen.)

- Use a rated capacity fuse.
  (A trouble or fire may be caused.)

- Do not forcibly bend the cable or press by a heavy thing for not being damaged.
  (Electric shock or fire may be caused.)

- Insert a cord into the outlet with earthed terminal.
  (In case of common outlet, set a separate earth terminal without fail.)

- When water supply is stopped or leaked, do not operate the unit.

- Do not randomly disassemble or remodel the product.
  (A trouble, electric shock, or fire may be caused.)

- In case of a strange sound or smell in the air conditioner, stop the operation and cut off the power, and contact the Service Center.
  (A continuous operation in abnormal condition, a trouble, electric shock, fire may be caused.)

◆ After reading carefully, keep it where any user may see it anytime.
SAFETY INSTRUCTIONS

⚠️ CAUTION ⚠️

For the damage occurred due to non-keeping of following matters, the manufacturer is not responsible for the compensation.

- Do not install the product on the uneven or slant place.
- For safekeeping, avoid hot, humid place, and keep it in dry indoor place. (Rusting or trouble may be caused.)
- In case of power cord’s damage, contact A/S Center for changing it. (Electric shock or fire may be caused.)
- Do not step on the product or put a thing on it. (Trouble or electric shock may be caused.)
- During operation, do not pull the water supply hose or the drain hose. Water leakage or fire damage may be caused.
- For preventing water leakage, close the water supply valve.
- In case of thunder, lightning or no-operation for a long time, pull the power plug out of the outlet. (Electric shock, leakage or fire may be caused.)
- When inserting/ pulling out the power plug, grip the plug. (A fire may be caused by electric shock or short-circuit.)
- Do not spray water on to the cooler nor use solvents such as benzene, thinner or alcohol for cleaning. (There is a risk of electric shock and / or short circuit)
- Excessive cold wind may be harmful to health.
- Do correctly the grounding device work without fail. However, do not connect to the gas pipe, water pipe or telephone line. (If the grounding device is not set, a trouble or electric shock may be caused.)

PRECAUTIONS FOR USE

1. Rated voltage of this product is 115V~ 60Hz. Connect to the rated power source and the earthed outlet.
2. Make sure of the safety of the place to be used.
3. Do not touch the power cord with a wet hand.
4. When moving this product, do not lean more than 30° or topple it. (When operating, keep it horizontal, or in unavoidable situation, keep it less than 2°.)
5. Do the exclusive power circuit for the air conditioner.
6. Do not pull the power cord. (If the power cord is damaged, a fire or electric shock may be caused.)
7. Use the standardized fuse without fail.
8. Operate efficiently the unit under the shadow, and avoid operation in the temperature higher than 113°F.
9. Keep space more than 20 inch around the air-intake so that a smooth in-taking of air can be done.
10. As dust in the filter or the heat-exchanger deteriorates the cooling, do clean the filter of the heat-exchanger regularly.
11. When using the product, use it indoor place free from direct sunlight.
12. Do not use this product as a means of moving other heavy goods or as a carrier of man.
13. Do not insert any foreign substance (can, bottle of drink) into cold air discharge hole. It may damage the product.
14. Do not put an obstacle in front of the air-intake hole. (Trouble may be caused.)
15. The optimum distance between the worker and the discharge duct is less than 80 inch.
16. When use, fix the locking device of front wheel at ON. (For release, press OFF.)
17. Do not use it, when water supply is stopped. (When water stoppage, re-operating is possible up to 2 times, and in case of water stoppage or shortage, the error E1 is shown and the operation will be stopped.)
18. If the water supply is low, the product cannot be normally operated, and main parts may be damaged.
19. Discharged water is in state that removed indoor heat is added to the pure tap water, thus the waste heat can be re-used for other purpose. (But, it cannot be used as drinking water.)
EXTERIOR DESCRIPTION

FRONT VIEW

- Discharge Duct
  (The place where cold air comes out.)
- Handle
- Digital controller
- Air intake hole (Evaporator)
  Indoor unit/ Filter
  (The place where indoor air enters.)
- Casters for moving
  (This unit can be moved freely anywhere.)

For the efficient improvement of this product, the specification may be changed without prior notice.

BACK VIEW

- Connecting hole for discharging water
  (The place where water of the heat-exchanger is discharged.)
- Connecting hole for supplying water
  (The place where water is supplied to the heat-exchanger.)
- Drainage of condensed water
  (The place where condensed water collected in the drain pump installed inside is drained.)
- Power cord
- Electricity panel
  (The place where electricity control panel is installed inside.)
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>HWC-19</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cooling Capacity</strong></td>
<td>Btu/h (kW)</td>
</tr>
<tr>
<td><strong>Power supply</strong></td>
<td>-</td>
</tr>
<tr>
<td><strong>Dimensions (WxDxH)</strong></td>
<td>inch</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>lb</td>
</tr>
<tr>
<td><strong>Power Consumption</strong></td>
<td>kW</td>
</tr>
<tr>
<td><strong>Current Consumption</strong></td>
<td>A</td>
</tr>
<tr>
<td><strong>Moisture Removal</strong></td>
<td>gal/day</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Refrigerant (R-410A)</strong></td>
<td>lb</td>
</tr>
<tr>
<td><strong>Operating Range</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Power cord</strong></td>
<td>LCDI 5-15</td>
</tr>
</tbody>
</table>
① Power : Use to power on / off.
② ∨ ∧ Button : Raises or lowers temperature and/or sleep (off) time.
③ Mode : Use to select cooling mode or Dehumidifier mode or FAN mode
④ Low Mode : Control fan low speed.
⑤ High Mode : Control fan high speed.
⑥ Off Timer : To set the length of time, once turned on, that you wish the cooler to run for.
    You can set 0~24 hours. Time intervals are 30mins up to 10 hours and then 1 hour between to
    10 and 24 hours.
⑦ Room : If the LED is On, the displayed temperature is for Room temp. If the LED
    is Off, the displayed temperature is for spot temp.
⑧ Comp. : When the compressor is operating, the LED is On.
⑨ Error : Error signal ( E1 : High Pressure, E2 : Low Pressure, E3 : Sensor, AF: Eva Freezing)
⑩ Water Full: Red light indicates 'Tank Full'. The compressor will shut off
    automatically. Empty tank and replace in position to resume operation.
⑪ Display : Display Room/Spot temperature, the setting temp and sleep time in case of
    setting them. When the user set the sleep timer, 'hr' will be turned on.
    (Display of 'LO' : under the 32°F, Display of 'HI' : over the 99°F)
MODE CHANGING METHOD

COOLING MODE
If you press 'cool' button. 'COOL' is displayed. then LED is on.

DEHUMIDIFIER MODE
When the cooling is operating. If you press the 'cool' button. 'dEHU' is displayed. then LED is on.

FAN MODE
When the Dehumidifier is operating. If you press the 'cool' button. 'FAn' is displayed. then LED is off.
HOW TO SET THE 'OFF' TIMER

This function enables you to set the length of time you want the cooler to operate. You can set the time period from 30 min. to 24 hours in 30 min. and 1 hour increments.

1. When cooler is operating, press the 'Off Timer' button and set the length of time you want by pressing ▲ or ▼. Each time you press the button you will increase the ‘time to off’ period by 30 mins, up to 10 hours, and 1 hour thereafter up to 24 hours. The display will show .5 for 30min and 1 for an hour, e.g., One and a half hours will show 1.5.

2. When you have finished setting the time period, the 'Off Timer' lamp will be on which indicates the cooler is in sleep (Off Timer) mode.

3. If you press the 'Off Timer' button during its operation, the remaining time will be shown.

4. To CANCEL timing, press 'Off Timer' button for ONE second. It will then switch the timer off automatically.
TEMPERATURE CONTROL OPERATION

1. When turn ON, the setting temperature is displayed.

2. When you push either ▲ or ▼ button, the setting temperature is changed.

3. The display showing the set temperature will blink 3 times.

4. Display range & Setting range.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Display range</th>
<th>Setting range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Room Temp</td>
<td>32°F~99°F</td>
<td>64°F~86°F</td>
</tr>
<tr>
<td>Spot Temp</td>
<td>32°F~99°F</td>
<td>32°F~86°F</td>
</tr>
</tbody>
</table>

Cooling operates when Room/Spot temperature is more than set temperature.

Cooling stops when Room/Spot temperature is less than set temperature.
SELECTION OF LOCK OR UNLOCK

1. When turn OFF if press ‘∨’ for 5 seconds, you can control 'LOCK, UNLOCK' mode.
2. You can set 'UNLOCK' or 'LOCK' after pressing ‘∧’ button.
3. When You set 'LOCK' there will be '.' below the number in the screen.

SELECTION OF °F OR °C

1. If you want to change temperature unit °F ↔ °C, when Heat Pump is stopped, push ∨ and ∧ button simultaneously for three seconds.
The machine’s safety devices will automatically signal any problems via the display window on the control panel. The information below shows how to read these signals.

1. WATER FULL - Display shows "tF"
   When the water container is full, "tF" is displayed and the LED "Water Full" light will be on.

2. HIGH PRESSURE
   'E1' is displayed and the 'Error' LED will be on when the pressure of the compressor is too high and the high pressure switch is open.

3. LOW PRESSURE
   'E2' is displayed and the 'Error' LED will be on when the pressure of the compressor is too low.

4. SENSOR PROBLEM
   If the thermistor is short circuited or cut, 'E3' is displayed and the 'Error' LED will be on.

5. ANTI FREEZING
   When the temperature of the evaporator is below 28°F, 'AF' is displayed.
<table>
<thead>
<tr>
<th>Symptom</th>
<th>Check Points</th>
<th>Measures to be Taken</th>
</tr>
</thead>
<tbody>
<tr>
<td>The operation is not done.</td>
<td>● Is the power plug pulled out?</td>
<td>● Insert the plug.</td>
</tr>
<tr>
<td></td>
<td>● Is the operation stopped?</td>
<td>● Press ON/ OFF switch, and confirm the lamp condition.</td>
</tr>
<tr>
<td></td>
<td>● Is the fuse cut?</td>
<td>● Change the fuse of electric panel.</td>
</tr>
<tr>
<td></td>
<td>● Is the circuit breaker fallen?</td>
<td>● After confirming the load capacity, raise the circuit breaker of the distribution panel.</td>
</tr>
<tr>
<td></td>
<td>● Is the surrounding temperature too high?</td>
<td>● Use it at the place of 113°F and lower. (Higher than 113°F)</td>
</tr>
<tr>
<td></td>
<td>● Is the voltage too low?</td>
<td>● Request an electricity construction company for the available rated voltage</td>
</tr>
<tr>
<td>The cooling is not well done.</td>
<td>● Is the filter clogged with dust?</td>
<td>● Clean the filter (Washing with water is OK.)</td>
</tr>
<tr>
<td></td>
<td>● Although the filter is clean, is the heat-exchanger clogged with much dust?</td>
<td>● Clean the heat-exchanger.</td>
</tr>
<tr>
<td></td>
<td>● Is there any obstacle in the in-taking part?</td>
<td>● Remove the obstacle. (Farther than 8inch.)</td>
</tr>
<tr>
<td></td>
<td>● Is the set-temperature correctly set?</td>
<td>● For cooling, adjust the set temperature lower than the ambient temperature.</td>
</tr>
<tr>
<td></td>
<td>● Is the water supply cut?</td>
<td>● Confirm the water supply valve is opened.</td>
</tr>
<tr>
<td></td>
<td>● Right after the operation stops, is the unit started to operate instantly?</td>
<td>● Confirm that after 3 minutes, the compressor is normally operated and the cold air is being discharged.</td>
</tr>
<tr>
<td>When white vapor is generated during operation.</td>
<td>● Is the unit being used where humidity is high?</td>
<td>● If the humidity is high, much air is discharged, and white vapor may be emitted,</td>
</tr>
<tr>
<td>When dew is formed at the discharging hole.</td>
<td>● Is the room temperature too high?</td>
<td>● It is a phenomenon that the moisture in the air is changed into dew, and this is not abnormal.</td>
</tr>
</tbody>
</table>
Cleaning of filter: Detach the filter from the A/C, and clean it with compressed air or water.

Cleaning of heat-exchanger: Clean dust attached to the heat-exchanger with compressed air or a vacuum cleaner.

1. After cleaning, dry well the inside by blowing operation for 3~4 hours.
2. After stopping operation and pulling out the power cord, do wind well and fix the cord.
3. Note that moisture and dust not to enter into the unit.

※ When it is not used, close the valve of the water supplying line, and discharge the water in the line, and keep it after being dried.
HOW TO INSTALL & PRECAUTIONS

Selection of the Installation Place

As the air conditioner should be connected with the tap water tube, its installation near the hydrant is good. 
- Install it on the even and stable place.

How to Connect Pipes

1. Connect the nipple at the water in-taking hole and the water discharge hole of the backside of the air conditioner. At this time, wind the Teflon tape at the thread part and fasten it the main body.

2. Unfasten the nut and ring at the nipple and connect it to the hose, and insert the hose into the nipple and fasten it by using the nut. 
   (When connecting the hose, make the cut surface of the hose even.)

3. Connect the water in-taking hole to the tap water tube (or a pressuring pump), and the water discharge hole to the drain hole. 
   (Pay attention for not changing the water in-taking hole with the discharging hole.)

4. Connect the discharging hose with the condensed water discharge hole and to the draining hole.

5. Once the pipe connection is finished, open the valve of water supply line so that water is supplied. 
   At this time, as water is discharged only when the air-conditioner is operated, check whether water is discharged from the drain hole.
Check Points after Installation

• After confirming the state of pipe connection, check whether a leakage is at the connection part.
• Confirm whether the connection of the drain hose is good.
• Confirm whether the earth line is good.

Precautions for Installation

1. Do the earth line work in good state without fail. (Do not connect it to the gas pipe, water pipe or telephone line.)
2. Connect the power source of the air-conditioner to the exclusive cable and the correct voltage.
3. Do not connect the power line in the middle or extend it. (Electric shock or fire may be caused.)
4. Do not install the unit at the place of an inflammable gas leakage or heat of fire.
   (If the leaked gas is accumulated around the air-conditioner, a blast or fire may be caused.)
5. Note that if the drain hose is unstably set, water cannot be drained.
6. The standard pressure of water in-taking of this product is 28~71psig. When the pressure exceeds the standard, install a decompression device, and in case of lower pressure than the standard, install a separate device (Pressure pump, etc.).
7. When installation, the standard part supplied with the air-conditioner should be installed.
8. For piping for water in-taking or discharging, a hose may be used for a short distance (3~33 ft), and for a long distance more than 33 ft, a proper material (Matchable, X-L pipe) should be installed in principle.
9. Connect the pipe correctly not the in-take direction to be changed with the discharging one.
10. The exposed in-taking pipe should be thermally insulated. (Condensation prevention of in-taking water and the prevention of freeze break in winter season.)
## ACCESSORIES

<table>
<thead>
<tr>
<th>AIR OUTLET</th>
<th>ITEM</th>
<th>DRAWDING</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DUCT Diam. 5inch</td>
<td><img src="image1.png" alt="Image" /></td>
</tr>
<tr>
<td></td>
<td>1 ft</td>
<td><img src="image2.png" alt="Image" /></td>
</tr>
<tr>
<td></td>
<td>10 ft</td>
<td><img src="image3.png" alt="Image" /></td>
</tr>
<tr>
<td></td>
<td>DUCT COVER</td>
<td><img src="image4.png" alt="Image" /></td>
</tr>
<tr>
<td></td>
<td>DAMPER BASE</td>
<td><img src="image5.png" alt="Image" /></td>
</tr>
<tr>
<td></td>
<td>ALUMINIUM FILTER CASSETTE</td>
<td><img src="image6.png" alt="Image" /></td>
</tr>
</tbody>
</table>
WARRANTY
(Applicable to first retail purchaser only)

AIRREX HEAT PUMP give the more reliable performance, comfort and durability
the more they are used. They are built under a strict quality assurance regime
which includes inspection both during and after production and exhaustive
reliability testing.

In the unlikely event you have any problems, please contact your dealer or
distributor. If the problem is as a result of a production fault or failure, repairs will
be undertaken free of charge during the period of warranty subject to the
following warranty conditions:

1. If the problem has been caused by customer error or misuse, abuse or
damage, then all repairs will be charged for.

2. This warranty applies to your country.

3. Proof and date of purchase must be supplied.

4. Please complete the details below and keep this warranty in a safe place.

5. All transport charges back to the dealer are at customer's cost. Keep all
original packaging to facilitate return. Return to customer will be at dealer's cost
(if genuine warranty claim).

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>AIRREX HEAT PUMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODEL</td>
<td>HWC-19</td>
</tr>
<tr>
<td>DATE OF PURCHASE</td>
<td>PRODUCT SERIAL NO.</td>
</tr>
<tr>
<td>DISTRIBUTOR</td>
<td>Name of Company</td>
</tr>
<tr>
<td></td>
<td>Telephone No.</td>
</tr>
<tr>
<td>CUSTOMER DETAILS</td>
<td>Name :</td>
</tr>
<tr>
<td></td>
<td>Address :</td>
</tr>
<tr>
<td></td>
<td>Telephone :</td>
</tr>
</tbody>
</table>

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