Thank you for purchasing an AIRREX AIR CONDITIONER. BEFORE operation please read this user’s manual carefully.

Keep this manual readily available,

It is ESSENTIAL that you read the ‘NOTES ON SAFETY’ carefully before use and follow them at all times.

The Air Conditioners are specified for use on a 115V, 60Hz, 1ph power supply. You must check that the local electricity supply is the same and have the appropriate plug fitted by a qualified electrician.

The Warranty form is on Page 15. Please complete it now and keep in a safe place.

We have a policy of continual improving to our products. The contents (features and specifications) in this manual are therefore subject to change without notice.
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SAFETY INSTRUCTIONS

The following instructions are for ensuring the user’s safety and to prevent any physical injury or material damage. Please read carefully and follow all instructions. There are two sections to these instructions: WARNING and CAUTION.

The following symbols are for your guidance:

☒ = You must NOT.
✔️ = You MUST.

WARNING

- Use a 115V, 60Hz, 1 Phase power supply only. (Wrong supply may cause a fire and / or shock hazard)
- Securely plug into an grounded outlet. (Unless earthed, may cause electric shock)
- Do not use a damaged power cable, plug or socket. (Short, fire or shock hazard)
- Do not remove plug by pulling cable or with wet hands. (Risk of fire and electric shock)
- Before cleaning, remove plug from socket. (Otherwise risk of electric shock)
- Do not place anything on top of the machine. (This could cause electric shock, malfunction or injury)
- Do not use an extension cord. (Risk of fire and / or electric shock)
- Ensure mains plug is clean and securely plugged in. (Otherwise it may short causing smoke and fire)
- Do not ‘kink’ or sharply bend the power cable nor put any weight on it. (The insulation may be damaged causing fire and/ or electric shock)
- Do not turn off by removing power plug. Always turn off at control panel first. (Risk of electric shock and / or malfunction)
- Do not use this cooler on unstable or inclined surfaces. Always use on solid flat floor. (Risk of falling causing injury, fire or malfunction)
- A damaged power supply cable must be replaced with a new power supply cord obtained from the product manufacturer and not repaired.
- If evaporator fan is not working when power on, because of the evaporator fan out of order, the Ozone generated from UV discharge tube can accumulated in the machine and it can be hazardous to the people. In this case, do not power on the machine.

😊 Keep this manual in a visible location near the cooler for easy reference.
SAFETY NOTICE

GENERAL ADVICE BEFORE USE

- Ensure the safety of the location in which cooler is to be used.
- Ensure the floor or ground is smooth and sound.
- Ensure you allow at least 20inch air space all around the cooler.
- When in position LOCK the casters to prevent rolling.
- Never use the cooler at more than 2° incline.

FOR MAXIMUM EFFICIENCY

- In airtight areas use vertical exhaust into ceiling.
- If possible locate exhaust outlet through a window or door to outside.
- Ensure correct electricity supply.

CAUTION

☒ Do not place cooler on uneven, unstable or inclined surface.
  (This could cause malfunction)

☑ When storing the cooler, ensure that it is kept in a dry, cool place.
  (To prevent corrosion and malfunction)

☑ If not being used for some time or if lightning is present, always unplug from power.
  (To prevent risk of electric shock, short circuit or fire)

☒ 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)

☑ Designed for indoor usage.
EXTERIOR DESCRIPTION

FRONT VIEW

- Louver Outlet (Cold Air)
- Handle
- Digital Controller
- Ozone Discharge Tube
- Electric Panel (Access by Authorised Service Personnel Only)
- Power Plug
- Casters (Front Lockable)

BACK VIEW

- Condenser Outlet (Hot Air)
- Evaporator Filter
- Ambient Air Intake
- Condenser Filter
- Water Level Indicator to check Water Level of the Condensate Tank
- Condensed Water Tank to collect Water generated during Cooling
CONTROL PANEL FUNCTIONS

① Power : Use to power On / Off.
   If the power is On, the OZONE discharge tube which is inside of machine is automatically On,
   and the power is Off, the OZONE discharge tube also off.

② ▼▲ : Raises or lowers temperature and/ or sleep (off) time.

③ Cool : Use to select cooling mode.

④ Low Mode : Controls fan low speed.

⑤ High Mode : Controls 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 10 and 24 hours.

⑦ Remote : From the long distance, you can control the machine by wired remote control.

⑧ 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.

⑨ Comp. : When the compressor is operating, the LED is On.

⑩ Error : Error signal ( E1 : High Pressure, E2 : Low Pressure, E3 : Sensor, AF: Eva Freezing)

⑪ Water Full: Red light indicates 'Tank Full'. The compressor will shut off
   automatically. Empty tank and replace in position to resume operation.

⑫ Align Drain Tank : The red light indicates the water tank is not in the correct position.

⑬ 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)
1. START BY PRESSING THE "POWER" BUTTON.
   · Cooler and OZONE discharge tube will start up automatically.
   · To STOP the unit, press the "POWER" button once again.

2. To change fan speed, press the "Low" button.

3. If you wish to operate on fan only, press the "COOL" button. To resume cooling,
   press the "COOL" button again.
   (Note: There is a 3 minute delay when switching functions to protect
   the compressor)
**SELECTION of AREA/ROOM or SPOT COOLING**

To reduce the temperature of the entire room select ‘Area/Room’. For ‘targeted’ cooling of machinery, servers, or people etc, select ‘Spot Cooling’.

1. If you want to display room temperature, push cool and ▼ button simultaneously for three seconds.

   ![Display Room Temperature](image)

2. If you want to change temperature unit °F ↔ °C, push ▼ and ▲ button simultaneously for three seconds.

   ![Change Temperature Unit](image)

If the compressor operation is stop in ‘Room Temp Mode’, the Fan motor operation also is stop in 3min. later.

**ECONOMIC MODE**

If the Economic mode is effective, Room Mode LED is blink.

1. In Room Temp Mode, if you want to go “Economic Mode”, Push Low fan (or High fan) button continuously for 3 seconds.

   ![Economic Mode](image)

2. If the Economic mode is effective, Room Mode LED is blink.
TEMPERATURE CONTROL OPERATION

1. When power is ON, the setting temperature is displayed. Default of setting temperature is as below.
   ♣ 50°F in Spot Mode.
   ♣ 60°F in Room Mode.

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>60°F~86°F</td>
</tr>
<tr>
<td>Spot Temp</td>
<td>32°F~99°F</td>
<td>50°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.
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 30min. to 24 hours in 30min. 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 30mins, 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.
'ERROR' and WARNING INDICATORS

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 “FU”
   When the water container is full, “FU” is displayed and the LED “Water Full” light will be on.

2. ALIGN WATER TANK
   If the water tank is not positioned correctly, the LED “Align Drain Tank” light will be on.

3. 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.

4. LOW PRESSURE
   ‘E2’ is displayed and the ‘Error’ LED will be on when the pressure of the compressor is too low.

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

6. ANTI FREEZING
   When the temperature of the evaporator is below 28°F, ‘AF’ is displayed and the ‘Error’ LED will be on.
CLEANING AND MAINTENANCE

CLEANING THE AIR FILTERS

1. To remove filters, slide up a little ① and pull towards you ②.
2. Clean the filters with water or compressed air.
3. Clean evaporator and condenser units with a vacuum cleaner or compressed air.

MAINTENANCE

1. After cleaning, completely dry the inside of the unit by operating on 'Fan Mode' only for 3 to 4 hours.
2. Turn "OFF" at control panel, remove plug from socket. Coil and store cable neatly.
3. Keep machine suitably covered to prevent damage by damp, humidity and dust.
### TROUBLE SHOOTING

<table>
<thead>
<tr>
<th>TROUBLE</th>
<th>CHECK</th>
<th>REMEDY</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NOT WORKING</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>● Power plug correctly connected</td>
<td>● Connect plug correctly</td>
<td></td>
</tr>
<tr>
<td>● POWER button “OFF”</td>
<td>● Press POWER button to “ON”</td>
<td></td>
</tr>
<tr>
<td>● Blown fuse in electric panel</td>
<td>● Replace fuse</td>
<td></td>
</tr>
<tr>
<td>● Fuse (supply) blown</td>
<td>● Exchange fuse in board</td>
<td></td>
</tr>
<tr>
<td>● Breaker on switch board tripped</td>
<td>● Check load capacity and reset</td>
<td></td>
</tr>
<tr>
<td>● Ambient temp. too high (over 105°F)</td>
<td>● Use only below 105°F</td>
<td></td>
</tr>
<tr>
<td><strong>POOR COOLING</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>● Filter blocked with dust</td>
<td>● Clean Filter</td>
<td></td>
</tr>
<tr>
<td>● Dust in heat exchanger</td>
<td>● Clean heat exchanger</td>
<td></td>
</tr>
<tr>
<td>● Obstacle against inlet side</td>
<td>● Remove and allow 20inch,clearance</td>
<td></td>
</tr>
<tr>
<td>● Ambient temp. too high (over 105°F)</td>
<td>● Use only below 105°F</td>
<td></td>
</tr>
</tbody>
</table>

### ACCESSORIES

<table>
<thead>
<tr>
<th>ITEM</th>
<th>MODEL</th>
<th>DRAWING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium Filter for Evaporator</td>
<td>HSC-14S</td>
<td><img src="image1.png" alt="Image" /></td>
</tr>
<tr>
<td>Aluminium Filter for Condenser</td>
<td><img src="image2.png" alt="Image" /></td>
<td></td>
</tr>
</tbody>
</table>

![Image](image1.png)
## SPECIFICATIONS

<table>
<thead>
<tr>
<th>Device</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling Capacity</td>
<td>BTU/h kW</td>
</tr>
<tr>
<td></td>
<td>HSC-14S 13,600 (3.98)</td>
</tr>
<tr>
<td>Power Supply</td>
<td>115V a.c., 60Hz, 1Ph.</td>
</tr>
<tr>
<td>Dimensions (WxDxH)</td>
<td>inch.</td>
</tr>
<tr>
<td></td>
<td>19.3 X 23.6 X 46.8</td>
</tr>
<tr>
<td>Weight</td>
<td>lb</td>
</tr>
<tr>
<td></td>
<td>180</td>
</tr>
<tr>
<td>Evaporator Air Flow</td>
<td>ft³/m</td>
</tr>
<tr>
<td></td>
<td>440</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>kW</td>
</tr>
<tr>
<td></td>
<td>1.59</td>
</tr>
<tr>
<td>Current Consumption</td>
<td>Amp.</td>
</tr>
<tr>
<td></td>
<td>13.3</td>
</tr>
<tr>
<td>Nema Plug</td>
<td>5–15</td>
</tr>
<tr>
<td>Refrigerant</td>
<td>lb</td>
</tr>
<tr>
<td></td>
<td>R410A, 1.33</td>
</tr>
<tr>
<td>Air Filter</td>
<td>Aluminium Mesh Cartridge</td>
</tr>
<tr>
<td>Safety Devices</td>
<td>High Pressure Switch</td>
</tr>
<tr>
<td></td>
<td>Fan motor protection</td>
</tr>
<tr>
<td></td>
<td>Low Pressure Switch</td>
</tr>
<tr>
<td></td>
<td>Tank position indicator</td>
</tr>
<tr>
<td></td>
<td>Auto ‘Full Tank’ shut off</td>
</tr>
<tr>
<td></td>
<td>3 min, delay timer.</td>
</tr>
<tr>
<td></td>
<td>Thermostat and relief valve for compressor</td>
</tr>
<tr>
<td>Power Cable</td>
<td>DEVICE Plug</td>
</tr>
<tr>
<td></td>
<td>Plug</td>
</tr>
<tr>
<td></td>
<td>Length 9.8 ft.</td>
</tr>
<tr>
<td>Operating Range</td>
<td>72°F DB 60% RH ~ 105°F DB 40%</td>
</tr>
<tr>
<td>High Pressure</td>
<td>kgf/cm²/psig</td>
</tr>
<tr>
<td></td>
<td>31/455.7</td>
</tr>
<tr>
<td>Low Pressure</td>
<td>kgf/cm²/psig</td>
</tr>
<tr>
<td></td>
<td>13/191.1</td>
</tr>
<tr>
<td>Max, Duct Length</td>
<td>Hot Duct</td>
</tr>
<tr>
<td></td>
<td>32.8 ft.</td>
</tr>
<tr>
<td>Fuse in power box</td>
<td>250V a.c., 10amp.</td>
</tr>
<tr>
<td>in Machine body</td>
<td></td>
</tr>
</tbody>
</table>
AIRREX AIR CONDITIONERS give 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. The warranty period is 12 months from the date of first purchase.

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

3. This warranty applies to your country.

4. Proof and date of purchase must be supplied.

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

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

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>AIRREX AIR CONDITIONER</th>
</tr>
</thead>
<tbody>
<tr>
<td>MODEL</td>
<td>HSC-14S</td>
</tr>
<tr>
<td>DATE OF PURCHASE</td>
<td>PRODUCT SERIAL NO:</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Warranty Period</td>
<td>(     ) Months</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>