Description
Ideal Air™ Portable Air Conditioners feature spot cooling for large areas where cooling of the entire area is not practical. A dedicated spot cooling thermostat controls the unit in this application. These air conditioners can also be used in smaller areas for room cooling. A control panel provides ease of use and contains a self-diagnostic function and display, showing operating modes, room and set temperatures, and faults. If an abnormal operation occurs, a visual display of the fault is shown. Caster wheels are included for easy portability. Suitable applications include: a factory or work place, textile mill, food processing plant, machine shop, etc.

Unpacking
After unpacking the unit, carefully inspect unit for any damage that may have occurred during transit. Check for any loose, missing, or damaged parts.

Specifications

<table>
<thead>
<tr>
<th>RATING</th>
<th>Model No.</th>
<th>Power Supply Ph-V-Hz</th>
<th>Capacity Btu/h</th>
<th>Power Consumption Watts</th>
<th>Rated Current Amps</th>
<th>EER Btu/Wh</th>
<th>Condensate Tank Gallons (Liters)</th>
<th>No. of Cool Air Outlets</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>700870</td>
<td>Single Phase, 120V, 60Hz</td>
<td>12,000</td>
<td>1400</td>
<td>12.0</td>
<td>8.6</td>
<td>3.17 (12)</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>700875</td>
<td>Single Phase, 240V, 60Hz</td>
<td>21,000</td>
<td>2300</td>
<td>10.0</td>
<td>8.9</td>
<td>3.17 (12)</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>APPLICATION</th>
<th>Model No.</th>
<th>Operation Temp. °F (°C)</th>
<th>Ambient Temp. °F (°C)</th>
<th>Application Area ft² (m²)</th>
<th>Dimensions W x H x D – in. (mm)</th>
<th>Net / Gross Wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>700870</td>
<td>64 – 113 (18 – 45)</td>
<td>64 – 113 (18 – 45)</td>
<td>355 (33)</td>
<td>17.5 x 43.3 x 19.9 (445 x 1100 x 505)</td>
<td>132 / 145.5 lbs. (60 / 66 kg)</td>
</tr>
<tr>
<td></td>
<td>700875</td>
<td>64 – 113 (18 – 45)</td>
<td>64 – 113 (18 – 45)</td>
<td>527 (49)</td>
<td>22.0 x 50.4 x 24.4 (560 x 1280 x 620)</td>
<td>198 / 216 lbs. (90 / 98 kg)</td>
</tr>
</tbody>
</table>

SYSTEM INFO

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Refrigerant Type / (oz.)</th>
<th>Design Pressure – Hi/Lo (Psig)</th>
<th>Indoor Air Flow – Hi/Lo ft³/min (m³/h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>700870</td>
<td>R410A / 15.9</td>
<td>450 / 250</td>
<td>283 / 247 (480 / 420)</td>
</tr>
<tr>
<td>700875</td>
<td>R410A / 42.3</td>
<td>450 / 250</td>
<td>512 / 477 (870 / 810)</td>
</tr>
</tbody>
</table>
### Specifications (Continued)

#### COMPRESSOR

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Type</th>
<th>Brand</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>700870</td>
<td>Rotary</td>
<td>Toshiba</td>
<td>3460 ±5%</td>
</tr>
<tr>
<td>700875</td>
<td>Rotary</td>
<td>Toshiba</td>
<td>5810 / 5900</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Input Watts</th>
<th>Rated Current Amps</th>
<th>Locked Rotor Amps</th>
<th>Thermal Protector</th>
<th>Capacitor</th>
<th>Refrigerant Oil (cc)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1175 ±5%</td>
<td>10.80 ±5%</td>
<td>47.3 +10%</td>
<td>8480-135-141E</td>
<td>45uF / 250v</td>
<td>350</td>
</tr>
<tr>
<td>2000 / 1980</td>
<td>9.7 / 8.7</td>
<td>34.8</td>
<td>-</td>
<td>50uF / 370v</td>
<td>750</td>
</tr>
</tbody>
</table>

#### FAN MOTOR 1

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Input Watts</th>
<th>Capacitor</th>
<th>Speed (Hi/Lo) – RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>700870</td>
<td>91 / 89</td>
<td>10uF / 450v</td>
<td>1300 / 1150</td>
</tr>
<tr>
<td>700875</td>
<td>240 / 200</td>
<td>8uF / 450v</td>
<td>1300 / 1150</td>
</tr>
</tbody>
</table>

#### FAN MOTOR 2

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Input Watts</th>
<th>Capacitor</th>
<th>Speed (Hi/Lo) – RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>700870</td>
<td>81</td>
<td>3.5uF / 450v</td>
<td>1500</td>
</tr>
<tr>
<td>700875</td>
<td>255</td>
<td>8uF / 450v</td>
<td>1500</td>
</tr>
</tbody>
</table>

#### EVAPORATOR

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Number of Rows</th>
<th>Tube Pitch x Row Pitch (mm)</th>
<th>Fin Spacing (mm)</th>
<th>Fin Type</th>
<th>Tube Outside Dia. and Type (mm)</th>
<th>Coil Length x Height x Width (mm)</th>
<th>Number of Circuits</th>
</tr>
</thead>
<tbody>
<tr>
<td>700870</td>
<td>2</td>
<td>19 x 12.5</td>
<td>1.6</td>
<td>Aluminum</td>
<td>Φ7 x 0.28</td>
<td>280 x 355 x 40</td>
<td>2</td>
</tr>
<tr>
<td>700875</td>
<td>2</td>
<td>25.4 x 22</td>
<td>2.0</td>
<td>Aluminum</td>
<td>Φ9.52 x 0.34</td>
<td>550 x 404 x 44</td>
<td>2</td>
</tr>
</tbody>
</table>

#### CONDENSER

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Number of Rows</th>
<th>Tube Pitch x Row Pitch (mm)</th>
<th>Fin Spacing (mm)</th>
<th>Fin Type</th>
<th>Tube Outside Dia. and Type (mm)</th>
<th>Coil Length x Height x Width (mm)</th>
<th>Number of Circuits</th>
</tr>
</thead>
<tbody>
<tr>
<td>700870</td>
<td>3</td>
<td>19 x 12.5</td>
<td>1.6</td>
<td>Aluminum</td>
<td>Φ7 x 0.28</td>
<td>320 x 445 x 40</td>
<td>2</td>
</tr>
<tr>
<td>700875</td>
<td>3</td>
<td>25.4 x 22</td>
<td>2.5</td>
<td>Aluminum</td>
<td>Φ9.52 x 0.34</td>
<td>554 x 560 x 81</td>
<td>2</td>
</tr>
</tbody>
</table>

#### NEMA Plug Type / Molded Type

<table>
<thead>
<tr>
<th>Model No.</th>
<th>NEMA Plug Type / Molded Type</th>
<th>Cord Length</th>
<th>Wheels</th>
<th>Diameter (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>700870</td>
<td>5-20P</td>
<td>6 ft.</td>
<td>4</td>
<td>76</td>
</tr>
<tr>
<td>700875</td>
<td>6-15P</td>
<td>6 ft.</td>
<td>4</td>
<td>102</td>
</tr>
</tbody>
</table>
General Safety Information
Please read this manual carefully for instructions on correct installation and usage. Please read all safeguards.

1. Transport and store the unit in an upright position only. Leave unit in an upright position for at least 3 hours before first use.
2. Always place the unit on an even, level surface.
3. Ensure the unit is connected to a grounded power supply of the correct rating/capacity.

4. The unit will cool when the room temperature is between 18°C (64.4°F) - 45°C (113°F) depending on the thermostat setting.
5. DO NOT use this unit for functions other than those described in this instruction manual.
6. DO NOT tilt the unit.
7. DO NOT cover or obstruct the unit’s inlet and outlet grilles.
8. DO NOT use the unit in areas where it will be exposed to rain or water.
9. NEVER unplug the unit while it is operating.

**WARNING**

**DO NOT use the unit in wet environments, such as a laundry room, to avoid the risk of electrical shock.**

10. DO NOT place any foreign objects on the unit.
11. DO NOT operate the unit with wet or damp hands.
12. DO NOT allow chemical substances to come into contact with the unit.
13. DO NOT operate the unit in the presence of flammable substances or vapors such as alcohols, pesticides, gasoline, etc.

**WARNING**

**DO NOT operate the unit in explosive or flammable environments.**

14. DO NOT use the plug to start and to stop the unit. Always use the control panel to start and to stop the unit.
15. Always turn off the unit when it is not in use and unplug the power plug from the electrical outlet.
16. Always turn the unit off and unplug the main power plug from the electrical outlet before cleaning, moving or performing maintenance.
17. AVOID the use of adapter plugs or extension cords. If it is necessary to use an extension cord or an adapter plug to operate the unit, ensure that they are correctly rated for the application. Consult a local qualified electrician and all local electrical codes to ensure proper setup. Any extension cord used with this device must be rated for a minimum of 15A.
18. DO NOT unplug the unit by pulling on the electrical cord. Keep electrical cord away from heat sources and always completely unroll the cord to avoid overheating. If the power cord becomes damaged, a qualified service agent, qualified electrician, or similarly qualified person must replace it, in order to avoid a hazard or shock.

**WARNING**

**DO NOT operate a unit with a damaged power cord.**

19. The filters must be used with the product at all times. When the filters are removed for cleaning, always ensure that the unit has been turned off and unplugged from the electrical outlet.
20. Regularly clean the filters to maintain efficiency. If the filters are not cleaned regularly, the unit’s output performance and efficiency will decline and energy consumption will increase.
21. DO NOT operate the unit with a damaged power cord or plug, after it malfunctions, has been dropped or damaged.
22. Only use in the upright position on an even, flat surface. Unit must be positioned at least 24 inches (60 cm) from the nearest object in any direction.
23. Stop operation immediately if abnormal noise or odor is noticed. Contact a local service center.

**SAVE THESE INSTRUCTIONS**
Assembly

COMPONENT PARTS

Front and Right Side View

- Cool air outlet hose
- Display / Control board
- Top fan wire grille
- Evaporator / filter
- Guide bar for condensate water tank
- Condensate water tank (Water level is sensed, and the unit operation is stopped when tank is full. An alarm will be displayed. Empty the tank and replace to resume operation)

Back and Left Side View

- Rubber stopper
- Condenser / filter
- Power cord holder
- Caster
- Side handle
- Electrical access panel

Figure 2

POWER CORD HOLDER

NOTE: 2 and 3 hose model instructions are the same.
1. Take out the cord holder from the accessory box.
2. Place the cord holder on the back side of air conditioner.
3. Use screws (enclosed inside of accessory box with cord holder) to install the cord holder on the air conditioner as shown in Figure 3.

Figure 3

RUBBER STOPPERS

NOTE: 2 and 3 hose model instructions are the same.
1. Take out the rubber stoppers from the accessory box.
2. Place the rubber stoppers on the back side of air conditioner.
3. Use screws (enclosed inside of accessory box with rubber stoppers) to install the rubber stoppers on the air conditioner as shown in Figure 4.

Figure 4

DISCHARGE DUCTS/SUPPLY AIR DUCT

NOTE: 2 and 3 hose model instructions are the same.
1. Remove cool air outlet hose(s) from carton.
2. Place the cool air outlet hose(s) on the front top of air conditioner.
3. Use screws (enclosed inside of box with cool air outlet hose(s) to install the cool air outlet hose(s) on the air conditioner as shown in Figure 5.

Figure 5

WARM AIR TOP EXHAUST DUCT

(Optional)

A warm air top exhaust duct can be purchased separately. Exhaust duct fits over the top exhaust fan duct improving cooling efficiency, allowing hot air to be exhausted to another location.

1. Remove duct from carton.
2. Place duct on the top of air conditioner.
3. Use screws (enclosed inside of box with duct) to install duct on air conditioner as shown in Figure 6.

Figure 6
Assembly (Continued)

REAR AMBIENT AIR ADAPTER
(Optional)
A rear ambient air adapter can be purchased separately. Air adapter fits over the condenser to duct condenser air to the unit to improve cooling efficiency.

1. Remove air adapter from carton.
2. Place air adapter on the rear of air conditioner.
3. Use screws (enclosed inside of box with air adapter) to install the adapter on the air conditioner as shown in Figure 7.

Figure 7
Installation

WARNINGS REGARDING PROPER LOCATION FOR INSTALLATION

⚠️ WARNING Do not use the unit in explosive environments or in areas where flammable gas leakage may occur.

⚠️ WARNING Do not use the unit in areas where it will be exposed to rain or water.

⚠️ WARNING Do not use the unit in a corrosive atmosphere.

⚠️ WARNING Do not use the unit below 18°C (64.4°F) or above 45°C (113°F).

⚠️ WARNING Do not install the unit on uneven or sloping surface. The unit may roll or topple over even if the casters are set to the locked position.

MOVING THE UNIT
Unlock the casters and push the unit using the side handles to a flat, level surface and set the caster brakes to the locked position.

PLUGGING IN THE UNIT
Check the prongs and surface of the power cord plug for dust/dirt. If dust and/or dirt are present, wipe off with a clean, dry cloth.

Check the power cord, plug and prongs for damage or excess play.
If any damage or excess play is found, contact a qualified repair technician or a qualified electrician to perform replacement or repair of the power cord, plug or prongs.

⚠️ WARNING If the power cord or plug is damaged, repair should only be performed by qualified electrical personnel.

⚠️ WARNING Do not connect / disconnect the power cord or attempt to operate buttons with wet hands. This could result in electrical shock.

NOTE: Make sure the AC outlet is free of dirt, dust, oil, water, or any other foreign material.

The unit is equipped with an approved NEMA plug configuration (2NRX2A: 5-20P, 2NRX3A: 6-15P, 2NRX4A: 6-20P). The appropriate outlet must be used for each plug type.

Operation

CONTROL PANEL

Figure 8
1. POWER BUTTON: Activates unit when POWER BUTTON is pressed. (Fan starts on low speed). If power button is pressed during operation, unit stops.
2. BLOWER BUTTON: Changes fan speed from (Low) to (High) when pressed.
3. SPOT/COOL BUTTON: Activates compressor and begins producing cool air 2 minutes after button is pressed. Regulates temperature based on outlet cool air temperature.
4. ROOM/COOL BUTTON: Activates compressor and produces cool air 2 minutes after button is pressed. Regulates temperature based on inlet ambient air temperature.
5. SET TEMP BUTTONS: Change target temperature/data value by +/- 1. Change data value by +/- 10 by pressing continually. Press the SET TEMP BUTTONS to set temperature. Upper button is to heighten temperature and Lower button is to lower temperature.
Operation (Continued)

6. ALARM: Alarm indicator lights (blinks) and indicates abnormal system operation. System operation stops when ALARM light is activated (blinks) longer than 3 minutes. System operation will automatically restart after the ALARM light has been on for 3 minutes.

7. CURRENT TEMP: Displays current room temperature in display in Celsius. (In Room Cool Mode only). SPOT/COOL Mode – Displays outlet (cool air) temperature during normal operations. ALARM codes blink and are displayed when abnormal operation occurs.

8. TARGET TEMP displays the unit set temperature for ROOMCOOL mode only.

Maintenance

FILTER CLEANING
(See Figures 9 and 10)

There are two filters in the unit. The evaporator filter is located at the front of the unit. The condenser filter is located at the rear of the unit.

1. To clean the evaporator filter, pull the front filter guard forward from top until the guard is open (in an angled position) and resting on the supporting cables.
2. Slide filter up and use a vacuum cleaner to remove the dust from the filter.
3. If the filter is heavily covered with dust and dirt, warm water and mild soap or neutral detergent may be used to wash the filter. Do not use any other chemicals to clean filter, as they will likely damage the filter.

4. Dry the filter in a shaded area before replacing it. Do not operate the unit without the filter installed and the filter guard in the closed position.
5. Replace the clean filter and close the filter guard.
6. To clean the condenser filter, lift up on the rear filter from the middle bar slightly and then angle the filter outwards from the bottom and remove.
7. Use the same cleaning procedure as above (3 – 5).
8. To replace the condenser filter, place the top of the filter in the guide and slide the filter up until the bottom of the filter clears the frame. Then push the bottom of filter into the guide and let filter gently fall inside the guide.

NOTE: For effective cooling clean the filter at least every 2 weeks.
- Pull the filter frame forward to remove the back filter.

- Remove dust from the filter using a vacuum cleaner hose attachment.
- If required wash the filter in lukewarm water with a mild detergent. Leave to dry in a shaded area before reinstalling.

Figure 9 – Removing Back Filter

WARNING
Do not operate without the filter fitted.

WARNING
Do not operate the unit with a damaged cord or plug, after the unit malfunctions, or if the unit has been dropped or damaged.

- For your convenience, record the complete model number and product name (located on the Product Identification Plate), the purchase date, purchase location, serial number, and warranty period in the table below.
- Also, attach your purchase receipt as proof of purchase to this instruction manual for future reference.
- To ensure your product is covered by warranty, the complete faulty product along with your original purchase receipt must be provided at the place of purchase.

<table>
<thead>
<tr>
<th>Product</th>
<th>Portable Air Conditioner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model No.</td>
<td>________________________</td>
</tr>
<tr>
<td>Date of Purchase</td>
<td>________________________</td>
</tr>
<tr>
<td>Place of Purchase</td>
<td>________________________</td>
</tr>
<tr>
<td>Serial No.</td>
<td>________________________</td>
</tr>
<tr>
<td>Period of Warranty</td>
<td>________________________</td>
</tr>
</tbody>
</table>

Customer: Please read and keep this manual for future reference and keep sales receipt as proof of purchase.
Maintenance (Continued)

SPRING REPLACEMENT
(See Figure 11)
There are two springs on the rear of condensate water tank guide.
1. Release the screw on the spring hook.
2. Take off the spring hook, and then pull out the opposite spring hook from hole in the condensate water tank guide.
3. Replace with a new spring in reverse order.
4. Repeat this cycle for the other spring.

Figure 11 - The process of spring replacement

SELF-DIAGNOSTIC CODES
(See Table 1)
The alarm light is activated if abnormal operation occurs, and a code is displayed on the control panel. The compressor and condenser fan motor will stop operating. The evaporator fan will continue to run for 3 minutes. If the fault is rectified within 3 minutes, the unit will resume operation. If the fault persists for more than 3 minutes, the evaporator fan also stops. The fault must be rectified before the unit can resume normal operation.

<table>
<thead>
<tr>
<th>Alarm Display</th>
<th>Problem</th>
<th>Cause</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>1F</td>
<td>TH3 temperature sensor value</td>
<td>a. TH3 temperature sensor has a loose or broken connection</td>
<td>b. Contact a qualified service agent</td>
</tr>
<tr>
<td></td>
<td>TH1 temperature sensor value</td>
<td>a. TH1 temperature sensor has a loose or broken connection</td>
<td>Contact a qualified service agent</td>
</tr>
<tr>
<td></td>
<td>TH2 temperature sensor value</td>
<td>a. TH2 temperature sensor has a loose or broken connection</td>
<td>Contact a qualified service agent</td>
</tr>
<tr>
<td>1F</td>
<td>Compressor overloaded</td>
<td>a. Compressor is overloaded</td>
<td>a. Do not use the air conditioner if ambient temperature is higher than 45°C (113°F) b. Replace compressor</td>
</tr>
<tr>
<td></td>
<td>Condensate water level alarm</td>
<td>a. Condensate tank is full</td>
<td>a. Empty the water tank b. After installation of the water tank, press the SPOT/COOL or ROOM/COOL button to resume operation.</td>
</tr>
</tbody>
</table>

Table 1 – Alarm Codes
Wiring Diagram

Figure 12 – Circuit Wiring Diagram (Models 700870 & 700875)
# Troubleshooting Chart

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Cause(s)</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water leakage</td>
<td>High water level in condensate tank</td>
<td>1. Remove blockage from drain hose</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Remove any object stuck underneath of the black panel under the water tank</td>
</tr>
<tr>
<td>The unit doesn’t work</td>
<td>1. Check the power supply to verify that power is available to the unit</td>
<td>1. Reset the circuit breaker and restart the unit</td>
</tr>
<tr>
<td></td>
<td>2. Verify that the power cord is connected</td>
<td>2. Connect power cord</td>
</tr>
<tr>
<td>No cold air flows from the cold air outlet</td>
<td>1. Ambient air cannot be properly cooled if the filter is dirty and not regularly cleaned</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2. Only the fan operates for 2 minutes after the unit has been started to protect the unit</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3. The ambient air temperature may be too high</td>
<td>1. Clean the filter</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Verify that 2 minutes has passed since the unit was turned on</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. The temperature of the compressor can be higher when the ambient temperature is too high. The compressor will not work unless the ambient air temperature is within the acceptable operating range of the unit</td>
</tr>
<tr>
<td>Water flow can be heard after compressor shuts off</td>
<td>No cause</td>
<td>Common to hear coolant flowing after unit shuts off</td>
</tr>
<tr>
<td>Alarm displays “FT” with less than half of condensate water in the tank</td>
<td>Spring is possibly broken</td>
<td>Replace a new spring (See Maintenance page 7)</td>
</tr>
<tr>
<td>Spring is possibly broken</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Figure 13 – Parts Illustration for Portable Air Conditioner
Figure 14 – Parts Illustration for Portable Air Conditioner
LIMITED WARRANTY

IDEAL AIR ONE-YEAR LIMITED WARRANTY. IDEAL AIR PORTABLE AIR CONDITIONERS, MODELS COVERED IN THIS MANUAL, ARE WARRANTED BY IDEAL AIR TO THE ORIGINAL USER AGAINST DEFECTS IN WORKMANSHIP OR MATERIALS UNDER NORMAL USE FOR ONE YEAR AFTER DATE OF PURCHASE. ANY PART WHICH IS DETERMINED TO BE DEFECTIVE IN MATERIAL OR WORKMANSHIP AND RETURNED TO AN AUTHORIZED SERVICE LOCATION, A IDEAL AIR DESIGNATES, SHIPPING COSTS PREPAID, WILL BE, AS THE EXCLUSIVE REMEDY, REPAIRED OR REPLACED BY IDEAL AIR’S OPTION. FOR LIMITED WARRANTY CLAIM PROCEDURES, SEE “PROMPT DISPOSITION” BELOW. THIS LIMITED WARRANTY GIVE PURCHASERS SPECIFIC LEGAL RIGHTS WHICH VARY FROM JURISDICTION TO JURISDICTION.

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