Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and property damage! Retain instructions for future reference.

KOLDWAVE
Modular Multi Air Conditioner

Description
Koldwave Modular Multi Air conditioner feature multi-function spot cooler providing various accessories available to fit customer needs. This Unit is used to spot cooling for large areas where cooling of the entire area is not practical or possible. A dedicated spot cooling thermostat controls the unit in this application. This Unit 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.
Suitable applications include:
a factory or work place, computer rooms, emergency cooling, 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.
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Shipping list
Modular air conditioner 1 unit
Owner’s Manual 1 pcs
Power Cord Holder 1 pcs
Drain hose (20ft length) 1 pcs

* The 6CC10BEA2AA00 is used in conjunction with various accessories to adapt to your environmental needs. These accessories (Portable Kit, Server Rack Kit, Hanging Kit, Stack Kit) are sold separately to allow you to customize the 6CC10BEA2AA00 to your specific needs
## Specifications

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Power Supply Ph-V-Hz</th>
<th>Cooling Capacity Btu/h</th>
<th>Power Consumption Watts</th>
<th>Rated Current Amps</th>
<th>EER Btu/Wh</th>
</tr>
</thead>
<tbody>
<tr>
<td>6CC10BEA2AA00</td>
<td>Single Phase, 115V, 60Hz</td>
<td>10,000</td>
<td>1000</td>
<td>10</td>
<td>10.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Nema Plug</th>
<th>Power Cord Gauge AWG</th>
<th>Power Cord Length ft</th>
<th>Dimensions W x D x H - in. (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6CC10BEA2AA00</td>
<td>5-15P</td>
<td>14</td>
<td>10</td>
<td>17.25 x 24 x 20 (438 x 610 x 508)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Weight (Net / Gross) Lbs(kg)</th>
<th>No. of Cool Air Outlets Pcs</th>
<th>Condensate tank Gallons(Liters)</th>
<th>Ambient temperature range °F( °C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6CC10BEA2AA00</td>
<td>121 / 128 (54 / 58)</td>
<td>1</td>
<td>Auto Pump Included</td>
<td>64<del>113 (18</del>45)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Setting temperature (Room cool mode) °F( °C)</th>
<th>Setting temperature (Spot cool mode) °F( °C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6CC10BEA2AA00</td>
<td>64<del>86 (18</del>30)</td>
<td>32<del>86 (0</del>30)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Application Area (Room cool mode) ft²(m²)</th>
<th>Refrigerant Type / oz(g)</th>
<th>Design Pressure - Hi/Low Psig</th>
</tr>
</thead>
<tbody>
<tr>
<td>6CC10BEA2AA00</td>
<td>258 (24)</td>
<td>R410A / 21.9 (620)</td>
<td>465 / 250</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Indoor Air Flow (High/Low) CFM(CMM)</th>
<th>Wheels pcs / diameter</th>
<th>Hot Air Duct Diameter In.(mm)</th>
<th>Maximum Duct Length ft(m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6CC10BEA2AA00</td>
<td>320 / 220 (9.1 / 6.2)</td>
<td>4 / 76.2mm</td>
<td>6 (150)</td>
<td>10 (3)</td>
</tr>
</tbody>
</table>

### Safety Devices
- Compressor overload protector, Anti-freezing thermister, Automatic restart (Power interruption), Compressor time delay program, High pressure switch

### Features
- Temperature control, Self-diagnostic function, Two speed fan, Washable filters, °F( °C) display, Off-timer, Drain pump is included, Humidity control.

## 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 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 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 (60cm) from the nearest object in any direction.
23. Stop operation immediately if abnormal noise or odor is noticed. Contact a local service center.
24. Appliance is not used by children or persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction.
25. Children being supervised not to play with appliance.
26. That the appliance shall be installed in accordance with national wiring regulations.
27. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

SAVE THESE INSTRUCTIONS.
Applications

With various accessories, Modular multi air conditioner provides best application to suit customer’s individual needs.

PORTABLE
- This unit has ability to move easily from room to room using portable kit. It is available spot cooling for large areas where cooling of the entire area is not practical. This air conditioner can also be used in smaller areas for room cooling. Portable kit includes casters, cool air duct assy and handle.

SERVER RACK
- It can be rack-mounted inside 19" computer server rack for cooling small computer and server rooms. This unit occupies just 12U of valuable rack space. Server Rack kit includes server rack assy (shelf), universal adjust (mount feet) and rack diffuser.

MOUNTED, HANG
- It can be used to mounted type where your needs and hung type using ceiling mounted kit. Hanging kit includes a eva intake air flange, a condenser filter/ intake air flange and hanging kit (support). All hanging installations must be completed by a qualified electrical technician to permanently connect the unit to a fixed location (hardwared).

STACK
- This unit can be stacked on top of each other to produce a capacity of 20,000BTU or 30,000 BTU in same area. It allows you to stack 6CC10BEA2AA00 up to 3 high. You can enjoy space efficiency and bigger cooling capacity. Stack kit includes universal adjust (mount feet) and stacking bracket.
ASSEMBLY (Standard)
COMPONENT PARTS

1. Take out the cord holder from the accessory box.
2. Place the cord holder on the back side of unit.
3. Use screws (enclosed inside of accessory box with cord holder) to install the cord holder in the unit as shown in Figure 4.
ASSEMBLY (Portable)
COMPONENT PARTS

HANDLE
1. Take out the handle 2 pcs from the accessory box.
2. Place the handle on the top of unit.
3. Use screws (enclosed inside of accessory box with handle) to install the handle on the unit as shown in Figure 6.

COOL AIR DUCT ASSEMBLY
1. Remove cool air duct assembly 1 pcs from carton.
2. Replace air cover with air duct assembly on the top front of unit.
3. Use screws (enclosed inside of box with cool air duct assembly) on the unit as shown in Figure 7.

CASTER
1. Take out the caster 4 pcs from the accessory box.
2. Place the casters on the base panel of unit.
3. Use screws (enclosed inside of accessory box with caster) to install in the unit as shown in Figure 8.

⚠️ WARNING

DO NOT tilt the unit on it’s side.

The unit is upright position only. Leave unit in an upright position for at least 3 hours before first use.
ASSEMBLY (Server Rack)

COMPONENT PARTS

- Rack diffuser
- Universal adjust
- Rack assembly

* See Figure 19 on page 12.

Figure 9 - server rack kit attachment

Figure 10 - installation in 19” server rack

RACK ASSEMBLY
1. Assemble the rack assembly parts 1set (6ea) to fit in server rack.
2. Use screws to install the rack assembly in server rack as shown in Figure 11.
3. Place the unit on the rack assembly.

Figure 11 - rack assembly attachment

RACK DIFFUSER
1. Remove rack diffuser 1 pcs from carton.
2. Replace air cover with rack diffuser on the top front of unit.
3. Use screws (enclosed inside of box with rack diffuser) on the unit as shown in Figure 12.

Figure 12 - rack diffuser attachment
ASSEMBLY (Mounted, Hang)
COMPONENT PARTS

1. Remove condenser intake air duct flange (included filter) 1 pcs from carton.
2. Take out condenser filter of unit and U Panel of rear bottom.
3. Place the condenser flange on the rear of air conditioner.
4. Use screw (enclosed inside of box with condenser flange) to install the flange as shown in Figure 15.

CON DENSER INTAKE AIR DUCT FLANGE

1. Remove Eva intake air duct flange 1 pcs from carton.
2. Slide up filter on the front of the unit and take out front grill.
3. Put the filter in the eva flange and place the air duct on the front of air conditioner.
4. Use screw (enclosed inside of box with air duct flange) to install the flange as shown in Figure 16.

EVA INTAKE AIR DUCT FLANGE
1. Install 1/2” threaded rod and vibration insulator to ceiling.
2. Remove Hanging assembly 1 set (2ea) from carton.
3. Place the hanging assy horizontally on the base of air conditioner.
4. Use screw (enclosed inside of box with hanging kit) to install as shown in Figure 17.
5. Lift and mounted the unit.

**Figure 17 - hanging assembly attachment**

⚠️ **WARNING**

Removing the power supply cord and permanently connection the unit should be performed only by a qualified electrician.

6CC10BEA2AA00 is heavy (121lbs) A minimum of 2 people are required to lift the unit.

When hanging and permanently connecting the unit all applicable local/state/federal building codes must be followed.

The structural beam being used must be properly support the weight of 6CC10BEA2AA00.
ASSEMBLY (Stack)
COMPONENT PARTS

UNITASAL ADJUST
1. Take out the universal adjust 4 pcs from the accessory box.
2. Place the universal adjust on the base panel of unit.
3. Install on the unit as shown in Figure 19.

**WARNING** DO NOT tilt the unit on its side.

The unit is upright position only. Leave unit in an upright position for at least 3 hours before first use.

STACKING BRACKET
1. Take out the stacking bracket 1 pcs from the accessory box.
2. Place the stacking bracket on the right side panel of unit.
3. Use screw (enclosed inside of box with bracket) to install as shown in Figure 20.
4. Stack the Unit.
5. Use screw (enclosed inside of box with bracket) to install as shown in Figure 20.
Installation Guide

WARNING 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 a corrosive atmosphere.

⚠️ WARNING ⚠️  Do not use the unit above 18°C(64.4°F)~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

Please lift and carry more than 2 people. If casters are set to the unit, unlock the casters and push the unit to a flat, level surface and set the caster brakes to the locked position.

PLUGGING 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. (6CC10BEA2AA00: 5-15P) 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. **BLOW BUTTON**: Changes fan speed from 1)low, 2)high, 3) Auto when pressed.
   Low is left lamp, high is right, Auto is two lamp on.

3. **COOL BUTTON**: Activates a compressor and producing cool air 5 seconds after is pressed.
   COOL & DEHUMIDID pressing will make Spot cooling available.

4. **DEHUMID BUTTON**: Room Cool, Spot Cool will be converted to Dehumidifying function after pressing Dehumid button.

5. **SET TEMP/HUMID BUTTONS**: Temp +/- will be set by pressing Temp Button.
   Humidity +/- will be set by pressing Blower& Dehumid together.

6. **SPOT/COOL**: When Spot cooling is operating, Light is on SPOT/COOL which is manipulated by COOL& DEHUMID pressing together.

7. **CURRENT**: Displays current room humidity which will be shown after pressing BLOWER & HUMID button together.
8.  TARGET: Displays Target Temperature and Humidity set by pressing button +/- respectively.

9.  ALARM: Alarm indicator lights (blinks) and indicates abnormal system operation.

   If Alarm occurs, compressor stops. System operation stops when ALARM light is activated (blinks) longer than 3 minutes.
Maintenance

FILTER CLEANING (Without flange)
There are 2 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. Open the front grill.
2. Slide filter up and use 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 grill.
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 into guide and let filter fall inside the guide.

NOTE: For effective cooling clean the filter at least every 2 weeks.

---

**Figure 22 – Removing Filters**

- Pull the filter frame forward to remove the front filter.
- Slide filter up and use a vacuum cleaner to remove the dust from the filter.
- Lift up on the rear filter from the middle bar slightly and then angle the filter outwards from the bottom and remove.

---

**Figure 23 – Removal of dust**

- 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.
FILTER CLEANING (With flange)

1. Loosen up 2 bolts on flange.
2. Slide filter up and use 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 re-assembly flange on the unit.

**NOTE**: For effective cooling clean the filter at least every 2 weeks.

---

**WARNING**

- Do not operate with out the filter fitted.
- 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.
Customer: Please read and keep this manual for future reference and keep sales receipt as proof 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>

**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.
### SELF-DIAGNOSTIC ALARM CODES

<table>
<thead>
<tr>
<th>Alarm Display</th>
<th>Problem</th>
<th>Cause</th>
<th>Corrective Action</th>
</tr>
</thead>
</table>
| ![Frost prevention sensor and Abnormal temperature sensor value](image) | Frost prevention sensor and Abnormal temperature sensor value | • Indoor heat exchanger temperature too low  
• TH3 temperature sensor has a loose or broken connection | • Do not use the air conditioner if ambient temperature is lower than 18°C (64°F)  
• Contact a qualified service agent |
| ![Refrigerant high pressure switch](image) | Refrigerant high pressure switch | • Blocked air filter  
• Blocked / kinked exhaust duct  
• Ambient temperature is too high | • Clean air filter  
• Ensure exhaust duct is not blocked / kinked  
• Do not use the air conditioner if ambient temperature is higher than 45°C (113°F) |
| ![Abnormal temperature sensor value](image) | Abnormal temperature sensor value | TH1(Outlet) temperature sensor has a loose or broken connection | Contact a qualified service agent |
| ![Abnormal temperature sensor value](image) | Abnormal temperature sensor value | TH2(Inlet) temperature sensor has a loose or broken connection | Contact a qualified service agent |
| ![Compressor overloaded](image) | Compressor overloaded | • Ambient temperature is too high  
• Unstable voltage supply  
• Defective compressor  
• Over current relay defect or broken connection | • Do not use the air conditioner if ambient temperature is higher than 45°C (113°F)  
• Contact a qualified service agent  
• Replace compressor |
| ![Drain pump alarm](image) | Drain pump alarm | Drain pump defective or improper hose connection (including kink or blockage) | • Contact a qualified service agent  
• Check the hose connection and hose  
• Replace drain pump |
| ![Abnormal dehumidification sensor value](image) | Abnormal dehumidification sensor value | TH4(Dehumidification) sensor has a loose or broken connection | Contact a qualified service agent |

Table 1- Alarm Codes
Figure 26 - Circuit Wiring Diagram
# Troubleshooting chart

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Cause(s)</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<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>1. Clean the filter</td>
</tr>
<tr>
<td></td>
<td>2. Compressor will not work if the unit is turned off and on quickly.</td>
<td>2. Wait 2 minutes after unit is turned off before turning the unit back on.</td>
</tr>
<tr>
<td></td>
<td>3. The ambient air temperature may be too high</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>
</tbody>
</table>
OBTAINING SERVICE

If the Koldwave Portable Air Conditioner requires Service:
1. Use the TROUBLESHOOTING section in this manual to eliminate obvious causes.
2. Verify there are no circuit breakers tripped.
3. Call your dealer for assistance. If you cannot reach your dealer, or if they cannot resolve the problem, call Koldwave Portable Air Conditioner Technical Support at 214-638-6010. Please have the following information available BEFORE calling the Technical Support Department:
   a. Your name and address.
   b. The serial number of the unit.
   c. Where and when the unit was purchased.
   d. All of the model information about your Koldwave Portable Air Conditioner.
   e. Any information on the failure, including LED’s that may or may not be illuminated.
   f. A description of the protected equipment, including model numbers if possible.
For Koldwave warranty please visit http://koldwave.com/html/literature.asp