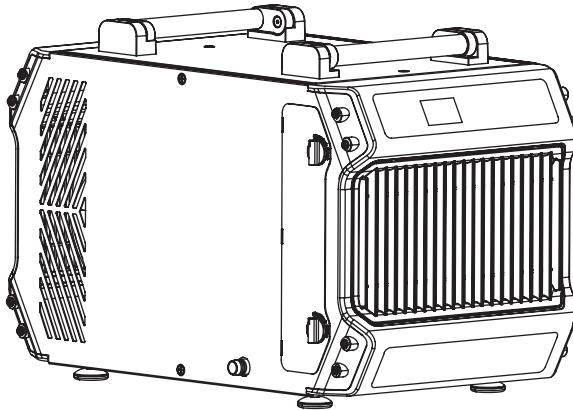




# ***GALAXY 85P***

## **USER GUIDE MANUAL**

Specifications subject to change without notice.



**AlorAir Solutions INC.**

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# WARRANTY REGISTRATION

Thank you for choosing the Galaxy Dehumidifier. We appreciate your trust in our product, and we are pleased to offer you a comprehensive warranty plan. To activate your warranty, kindly complete and return the enclosed warranty form found in the dehumidifier box.

Please make a note of your dehumidifier's serial number, as this information is essential for the registration process.

## SAFETY NOTES

### 1. Electrical Connection:

- Always connect your Galaxy Series Dehumidifier using a grounded electrical connection, as required for all electrical appliances. The use of non-grounded wiring will void the warranty, and any liability reverts to the owner.

### 2. Maintenance and Repair:

- Only qualified technicians should handle the maintenance and repair of Galaxy Dehumidifiers. This ensures proper care and performance.

### 3. Proper Orientation:

- Operate the dehumidifier with the unit sitting on its feet and level. Using the unit in any other orientation may lead to water flooding electrical components.

### 4. Moving the Dehumidifier:

- Always unplug the dehumidifier before moving it. If there is a possibility of water flooding the unit, allow it to dry thoroughly before reconnecting to electrical power and restarting.

### 5. Clearance Requirements:

- To ensure proper operation, maintain a minimum of 6 feet clearance for the inlet and 36 inches clearance for the discharge. Position the dehumidifier with the discharge blowing away from a wall and the inlet pulling air in parallel to a wall for optimal air diffusion.

### 6. Safety Precautions:

- Do not insert fingers or any objects into the inlet or discharge.
- All work on the dehumidifier should be done with the unit turned "off" and unplugged.

### 7. Cleaning:

- Do not use water to clean the exterior of the machine. Before cleaning, unplug the unit from power, and then use a damp cloth to wipe the exterior.

### 8. Usage Caution:

- Do not stand on the machine or use it as a device to hang clothes.

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## IDENTIFICATION

For future reference, write down the model name, serial number, and date of purchase for your dehumidifier. This is extremely helpful if you need to seek assistance in the future. The data label is located on the side of your unit.

**Model Name:** Galaxy 85P

**Serial Number:** \_\_\_\_\_ **Date of Purchase:** \_\_\_\_\_

For additional questions concerning your dehumidifier, the following options are available:

- Contact your installing contractor
- E-mail: sales@alorair.com

## ELECTRICAL SUPPLY

Power Supply: 115 V, 60 Hz AC, Single Phase

Outlet Requirement: 3-Prong, GFCI

Circuit Protector: 15 Amps

**WARNING:** 240 Volts AC may cause serious injury from electric shock.

To minimize the risk of electric shock, please adhere to the following guidelines:

### 1. Disconnect Power Before Servicing:

- Always disconnect the electrical power supply before servicing or performing maintenance on the dehumidifier. This step is crucial to ensure your safety.

### 2. Grounded Electrical Circuit:

- Plug the unit into a properly grounded electrical circuit to prevent electric shock. Grounding is essential for the safe operation of the dehumidifier.

### 3. Avoid Using Extension Cords:

- Do not use extension cords with the dehumidifier. Plug it directly into a suitable electrical outlet. Using extension cords may pose a safety risk.

### 4. Avoid Using Plug Adapters:

- Refrain from using plug adapters with the dehumidifier. Plugging the unit into an appropriate electrical outlet without adapters is necessary to maintain safety standards.

## OPERATING PRINCIPLE

### Overview:

The Galaxy Series Dehumidifier employs an integral humidistat to monitor the environmental conditions within the designated space. The operational process is designed to maintain optimal humidity levels for enhanced comfort.

### Functional Description:

#### Humidity Monitoring:

- The integrated humidistat continuously monitors the relative humidity in the conditioned space.

#### Activation Trigger:

- When the observed relative humidity surpasses the preset target, the dehumidifier activates automatically to address the excess moisture.

#### Evaporator Coil Operation:

- As the dehumidifier activates, air is drawn across an evaporator coil. This coil is maintained at a temperature lower than the dew point of the air.

#### Moisture Condensation:

- The cooler evaporator coil causes moisture in the air to condense, effectively extracting excess humidity from the air.

#### Reheating Process:

- The air undergoes a reheating process as it passes through the condenser coil, and the dehumidified air returns to the room at a comfortable temperature.

## INSTALLATION

### Pre-Installation Preparations:

Before installing your dehumidifier, ensure the area is properly sealed with a vapor barrier. In crawl spaces, seal all vents to enhance the unit's effectiveness.

#### **WARNING:** Corrosive Environments:

Avoid installing the dehumidifier in corrosive environments. Certain liquid vapor barriers may dry through "solvent evaporation." Ensure the vapor barrier is completely dry, and the installation area is thoroughly ventilated before proceeding.

### Step #1: Placement:

- Position the dehumidifier on a level surface using blocks or spacers. Allow 2 hours if the compressor isn't upright.

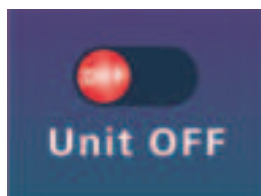
## Step #2: Drain Line Setup:

- Insert the water pipe into the drainage outlet.
- Direct the hose to a drain or container.
- Ensure the drain hose is unobstructed before use.

## OPERATION



- Press this button to turn on/off the dehumidifier. Note that when turning off the dehumidifier, the fan will have a delayed shutdown. Please refrain from unplugging the power before the fan completes its shutdown process.
- For drainage system selection, long-press the same button for 3 seconds. Choose between the water pump drainage mode or gravity drainage mode (default is gravity drainage mode initially). In water pump mode, short-pressing the button initiates water drainage.
- Press this button to switch between sub-interfaces.
- Press this button to select options and confirm settings.



### 1. Plugged In - Shutdown Mode:

When plugged in, the display communicates that the machine is in shutdown mode, indicating readiness for powering on.



### 2. Dashboard - Humidistat Mode:

While dehumidifying in Humidistat Mode, the display presents:

- Temperature and Relative Humidity (RH)/(GPP).
- Set humidity value (Optionally set GPP).
- "Dehumidifying" status.

**Note:** GPP refers to Grains per Pound (gr/lb) and RH refers to Relative Humidity.



## 3. Standby Mode:

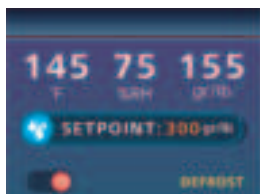
In Standby Mode, the display shows:

- Temperature and Relative Humidity (RH)/(GPP).
- Set humidity value.



## 4. Draining:

An icon  above the interface indicates entry into water pump mode. In this mode, pressing the DRAIN button initiates a 28-second drainage cycle. The drainage progress is displayed at the bottom of the interface. During regular dehumidification, when the water level switch reaches the specified line, the water pump automatically drains for 28 seconds, with drainage details displayed.



## 5. Defrosting:

The display communicates to the user that the machine is undergoing a defrosting cycle, indicated on the last line of the dashboard.



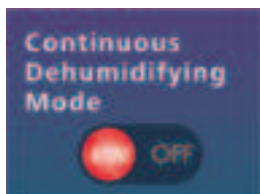
## 6. Compressor Protection State:

The display informs the user that the machine is in a compressor protection state, awaiting the compressor to run. This information is displayed on the last line of the dashboard.



## 7. Coil Temp:

The screen provides a display of the coil temperature, giving users real-time information about the operational temperature of the coil.



## 8. Continuous Dehumidifying Mode:

The default mode is Continuous Dehumidifying Mode "OFF." To toggle between Continuous Dehumidifying Mode On/Off, press the Set button.

If the continuous mode is turned off, the humidistat mode is automatically activated. Users can then enter the desired humidistat set point for operation.





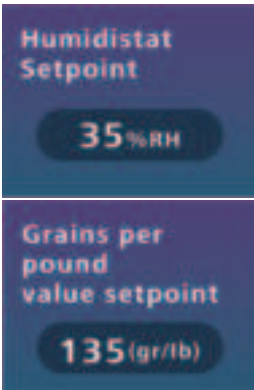
When continuous mode is activated, the appliance runs continuously regardless of the humidity.



## 9. Humidity Control Mode:

Users have the flexibility to choose between two humidity control modes:

- Relative Humidity (%RH)
- Grains per Pound (GPP) - measured in gr/lb



## 10. Humidistat Set Point:

Adjust the set point for Relative Humidity (%RH) by pressing the Set button. Increments of 1% can be selected, ranging from 35% RH to 90% RH. Use the Next button to confirm the selection and move to the next screen.

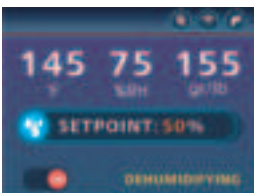
Similarly, adjust the set point for Grains per Pound (GPP) in 2 gr/lb increments by pressing the Set button. The range spans from 20 gr/lb to 200 gr/lb, looping back to 20 gr/lb. Select the desired humidity setting point for adjustment.

The machine operates when ambient humidity exceeds the set value and shuts down when the ambient humidity falls below the set value.



## 11. Fault Codes

- HI:** High temperature alarm
- LO:** Low temperature alarm
- E4:** Water full alarm
- E5:** Refrigerant leakage
- E3:** Abnormal coil temperature
- E1:** Sensor fault

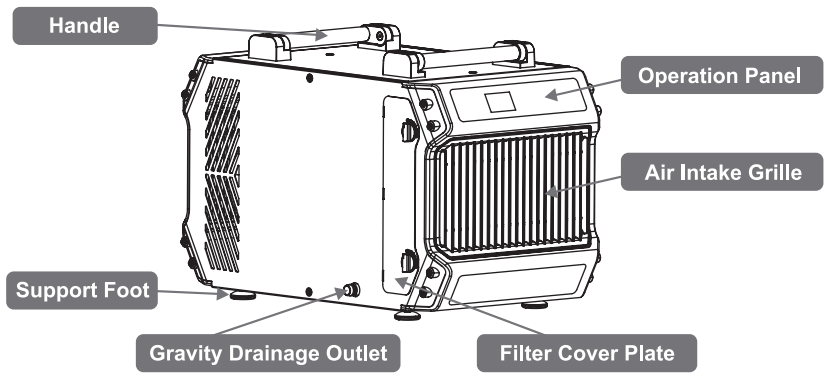


## 12. Status Icon

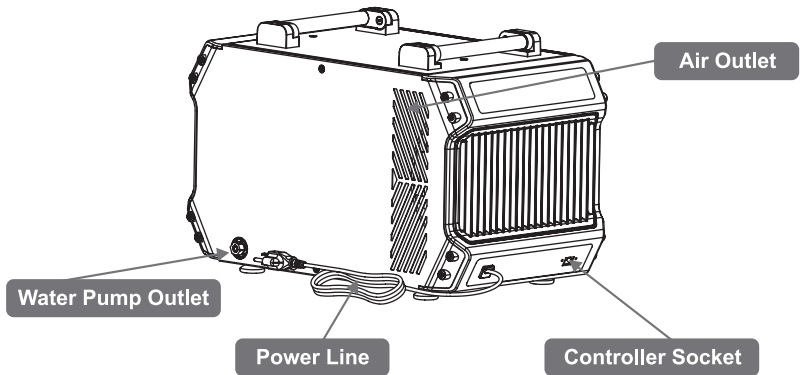
- Water pump mode on.
- Pipe mode requires connection to the controller.
- This icon does not light up when the network is not configured, flashes when the network is configured, and stays on when the network has been successfully configured and the network is normal. (only the Wi-Fi version has this function.)
- Network anomaly

DIAGRAM

Front View



Back View



## MAINTENANCE INSTRUCTIONS

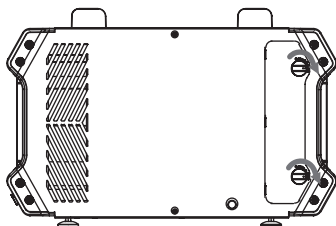
### Before Use:

- Examine the power cord for any indications of damage, such as fraying. If damage is observed, replace the cord before using the dehumidifier to ensure safety.
- Inspect the filter for signs of dirt or obstructions. Replace the filter as necessary to maintain optimal performance.
- Check the coils for any signs of buildup and clean them if required.

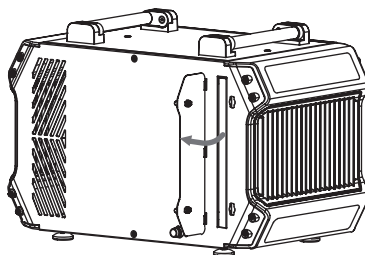
### Cleaning the Machine Body:

To clean the exterior of the unit, use a soft, damp cloth. Avoid using any soap or solvents during the cleaning process.

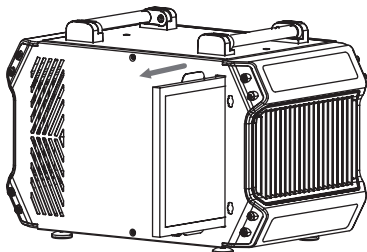
### Replace the Filter:



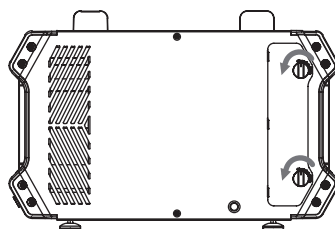
1. Rotate the knob to open.



2. Lift the cover plate.



3. Slide out the old filter and replace with a new filter.



4. After replacing the filter, close the cover plate and rotate the knob to close.

### Coil Maintenance:

- Annually, perform maintenance by cleaning the coils using an approved coil cleaner.
- Use a self-rinsing, foaming coil cleaner, such as WEB® Coil Cleaner, for effective and thorough maintenance.

## DEHUMIDIFIER STORAGE

If the unit will be stored for an extended period of time, complete the following steps:

1. Turn off the unit and allow to dry.
2. Wrap and secure the power cord.
3. Cover the filter mesh.
4. Store in a clean, dry space.

## WATER PUMP APPLICATION AND MAINTENANCE

### Water Pump Functionality:

Activate the water pump function by turning on the water pump mode. Ensure that the rubber plug blocks the gravity drain.

To connect the water pump:

- Unscrew the nut from the water pump discharge port.
- Pass the water pipe through the nut.
- Tighten the nut to securely connect the water pipe to the sink.

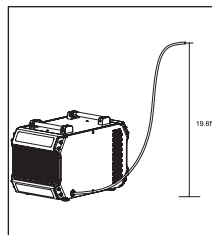
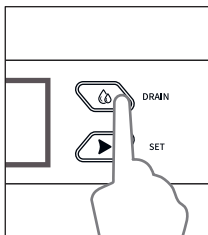
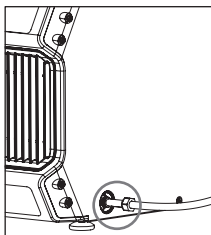
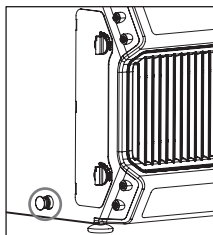
### 1. Manual Water Pumping:

Press the Drain button to initiate manual water pumping. The water pump will start without vibration or noise, ensuring a smooth water flow.

### 2. Automatic Drainage at Water Level Line:

During normal dehumidification, when the water collected by the water tray reaches a specific height:

- The floating ball rises to the water level line.
- The water pump automatically activates, drawing water without vibration or noise, and maintaining a smooth water flow.



### 3. Usage of Gravity Drainage Pipe:

#### Choosing Drainage Method:

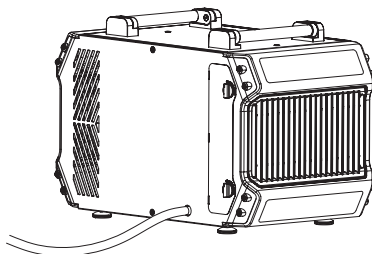
- The dehumidifier offers the option to choose between gravity drainage or pump drainage, depending on the working environment.

#### Gravity Drainage Setup:

- For gravity drainage, place the dehumidifier on a level surface with a specific height.
- Remove the screw tooth rubber plug from the water collector outlet.
- Insert the water pipe into the outlet.

#### Condensate Discharge:

- Condensate from the coil will flow along the water pipe.
- It can be collected into a water storage container or directed outside of the room.
- Note: Ensure that the water pipe is not positioned higher than the dehumidifier, and it should discharge towards the ground.



### 4. Water Pump Functionality

Enhance the operational versatility of your dehumidifier with the advanced Water Pump Function.

- 1. Flexible Placement:** Overcome the limitations of gravity drainage by allowing the dehumidifier to operate at various heights within your living space.
- 2. Customizable Drainage:** Enjoy the freedom to lay the drainage pipe according to your preference, with a generous length allowance of up to 19.6 ft, eliminating spatial constraints.
- 3. Smart Pumping Options:** The dehumidifier is equipped to automatically pump water when it reaches a specific level, or you can choose to initiate manual pumping at your convenience, providing a flexible and user-friendly experience.
- 4. Advanced Water Pump Features:** Benefit from the water pump's inherent advantages, including low noise, minimal vibration, compact size, extended lifespan, self-priming functionality, as well as straightforward maintenance and hassle-free replacement.

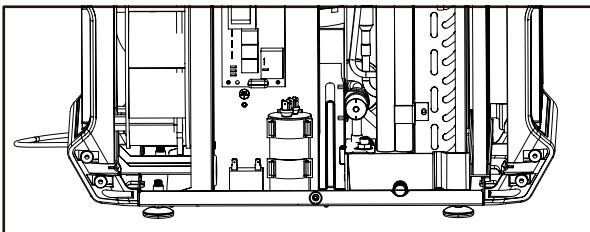
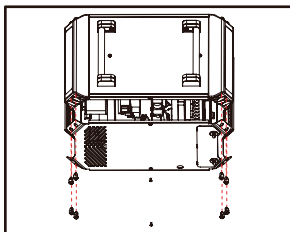
## 5. Troubleshooting and Maintenance of the Water Pump

Address issues promptly by identifying the "E4" error code:

1. **Drainage Hose Inspection:** Check for blockages or deformities caused by foreign objects in the drainage hose.
2. **Height Consideration:** Ensure the drainage height adheres to the specified standards.
3. **Water Level Switch Evaluation:** Verify the proper functioning of the water level switch.
4. **Water Pump Assessment:** Investigate potential failures or the expiration of the water pump's service life.
5. **Internal Hose Examination:** Inspect the internal water pump hose for blockages or deformities caused by foreign matter.

## 6. Replace Water Pump

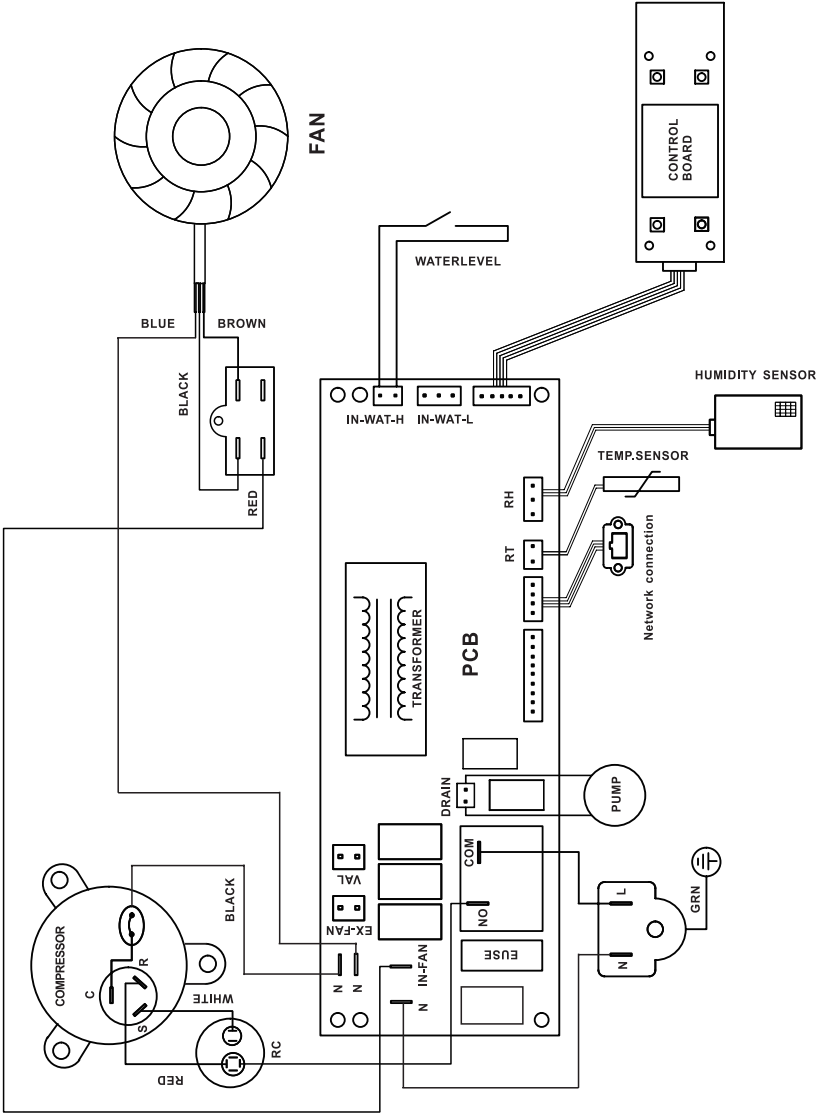
1. Use a Phillips screwdriver to loosen the 10 screws on the side panel. Remove the side panel to see the water pump.
2. Loosen the three screws on the float ball fixing bracket and water pump fixing bracket with a screwdriver.
3. Disconnect the water hose and docking cable from the water pump to remove the water pump.
4. Follow the steps above to install the new water pump.



# TROUBLESHOOTING

| Problem                | Cause                                                                    | Solution                                                                                                                                                                                                                                                                                                                                                          |
|------------------------|--------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Machine Won't Run      | Power supply issue                                                       | Confirm power to the outlet and proper plug installation.                                                                                                                                                                                                                                                                                                         |
|                        | Room temperature is over 104°F (Display HI) or below 33.8°F (Display LO) | The dehumidifier is experiencing operation issues due to being subjected to temperatures outside the optimal range. Adjust ambient conditions to maintain a temperature within the range of 33.8°F to 104°F, and the unit will initiate its operation.                                                                                                            |
| Low Air Flow           | Air filter is clogged                                                    | Replace the filter.                                                                                                                                                                                                                                                                                                                                               |
|                        | Air inlet or outlet is blocked                                           | Clear the blockage from the inlet or outlet.                                                                                                                                                                                                                                                                                                                      |
| Loud Noise             | Machine is not level                                                     | Move the dehumidifier to flat, firm ground.                                                                                                                                                                                                                                                                                                                       |
|                        | Filter mesh is blocked                                                   | Replace the filter.                                                                                                                                                                                                                                                                                                                                               |
| Trouble Code: E1       | Humidity Sensor Issues                                                   | Ensure the wire is connected at both ends. If no issues are visible, the sensor may be faulty. Replace defective sensor.                                                                                                                                                                                                                                          |
| Trouble Code: HI or LO | Room temperature is over 104°F (Display HI) or below 33.8°F (Display LO) | The dehumidifier is experiencing operation issues due to being subjected to temperatures outside the optimal range. Adjust ambient conditions to maintain a temperature within the range of 33.8°F to 104°F, and the unit will initiate its operation. If room temperatures are within the temperature range, the sensor may be faulty. Replace defective sensor. |
| Trouble Code: E3       | Abnormal coil temperature                                                | Contact your installer for assistance.                                                                                                                                                                                                                                                                                                                            |
| Trouble Code: E4       | Water full alarm                                                         | Check whether water pipes are clogged or bent.                                                                                                                                                                                                                                                                                                                    |
| Trouble Code: E5       | Refrigerant leak                                                         | Contact your installer for assistance.                                                                                                                                                                                                                                                                                                                            |

WIRING DIAGRAM





## LIMITED WARRANTY

This limited warranty starts from the date of purchase. AlorAir Solutions Inc. Warrants to the original purchaser that this AlorAir product is free from manufacturing defects in material or workmanship for the limited warranty period of:

**Six (6) Month parts and labor.** This includes the shipments charges for replacement parts or unit.

**One (1) year parts and labor.** This does not include the shipment charge to send the defective product back to be repaired or replaced.

**Three (3) years parts and labor on Refrigeration System ONLY (Compressor, Condenser, and evaporator).** Transportation cost, not included.

**Five (5) years parts on Refrigeration System ONLY(Compressor, Condenser, and evaporator).** Transportation cost, not included.

This limited warranty is valid only on products purchased from the manufacturer or AlorAir authorized dealer and operated, installed, and maintained according to the instructions included in this user guide or furnished with the product. AlorAir Solutions Inc will not provide in-home service during or after the warranty period. You may be responsible for the shipping cost to bring the product to the manufacturer for service.

To receive warranty service, the purchaser must contact AlorAir at 888-990-7469 or [sales@alorair.com](mailto:sales@alorair.com). A proof of purchase or order number is required to receive warranty service. During the applicable warranty period, a product will be repaired or replaced at the sole option of AlorAir.

**IMPORTANT NOTICE:** Keep the item's packaging in case warranty service is required.

## LIMITED WARRANTY EXCLUSIONS

This limited warranty covers manufacturing defects in materials or workmanship encountered in normal household, commercial or noncommercial use of this product and shall not cover the following:

- Damage occurs in uses for which this product was not intended for.
- Damage caused by unauthorized modification or alteration of the product.
- Cosmetic damage including scratches, dents, chips, and other damage to the product's finishes.
- Damage caused by abuse, misuse, pest infestation, accident, fire, floods, or other acts of nature.
- Damage caused by incorrect electrical line current, voltage, fluctuations, and surges.
- Damage caused by failure to perform proper maintenance of the product.

The use of this product in SPA or a room with OUTDOOR POOL invalidate or voids limited warranty.





## WARRANTY REGISTRATION CARD

*Return To:*  
**AlorAir Solutions**

ORDER NUMBER: \_\_\_\_\_

MODEL: \_\_\_\_\_ SERIAL #: \_\_\_\_\_

INSTALLER: \_\_\_\_\_ INSTALLATION DATE: \_\_\_\_\_

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

PHONE #: \_\_\_\_\_ EMAIL: \_\_\_\_\_



- ▶ If you have any questions, please feel free to contact us at 888-990-7469 or visit [www.alorair.com](http://www.alorair.com)
- ▶ Register your unit for warranty using this link: [www.alorair.com/page/Warranty--Warranty-registration](http://www.alorair.com/page/Warranty--Warranty-registration)
- ▶ Warranty Registration <https://www.alorair.com> or scan this barcode to direct you to the warranty registration website.



## **AlorAir Solutions INC.**

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