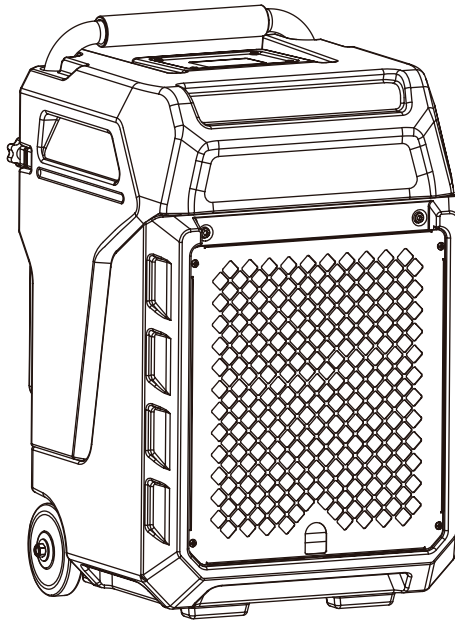




Storm 80X

Installation and Operations Manual



READ AND SAVE THESE INSTRUCTIONS

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Specifications subject to change without notice.

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Safety Instructions

- Don't adjust or alter the unit in any way.
- The use of unauthorized parts will void your warranty. Contact your approved distributor for assistance.
- Always unplug the unit prior to removing the cover.
- Inspect the power cord prior to use and do not use if it is damaged.
- The unit should only be used with a 115 V/60 Hz circuit protected by a GFCI outlet.

IDENTIFICATION

Prior to installation of the unit, write down the serial number and date of purchase. You will need this information if you need assistance in the future. The data label on the side of your unit has the necessary information.

Model Number: Storm 80X

Serial Number: _____

Date of Purchase: _____

For additional questions concerning your dehumidifier:

- Contact your installing contractor
- Contact AlorAir Solutions: sales@alorair.com / +1 (888) 990-7469

ELECTRICAL SUPPLY

Power Supply: 115 V/60 Hz

Outlet Requirement: 3-Prong, GFCI

Circuit Protector: 15 Amps

WARNING: Using a 220 V outlet may cause serious injury from electric shock.

To reduce risk of injury:

1. Always disconnect machine from electrical power before servicing .
2. Only plug unit into a grounded electrical circuit .
3. Do not use an extension cord.
4. Do not use a plug adapter.

How the Storm 80X Works

The Storm 80X dehumidifier utilizes its integral humidistat to monitor the conditioned space. Once conditions are outside the desired setpoint, the compressor energizes and air is drawn across an evaporator coil. The evaporator coil is cooler than the dew point of the air so the water vapor will turn into liquid condensation. The air is then reheated through the condenser coil and distributed back into the room.

Guidelines

Operation Notes

- Always make sure that the unit is operated, transported, and stored on a stable surface.
- For maximum efficiency, operate the unit with all windows and doors closed.
- Do not place the unit anywhere that may block the inlet or outlet airflow.

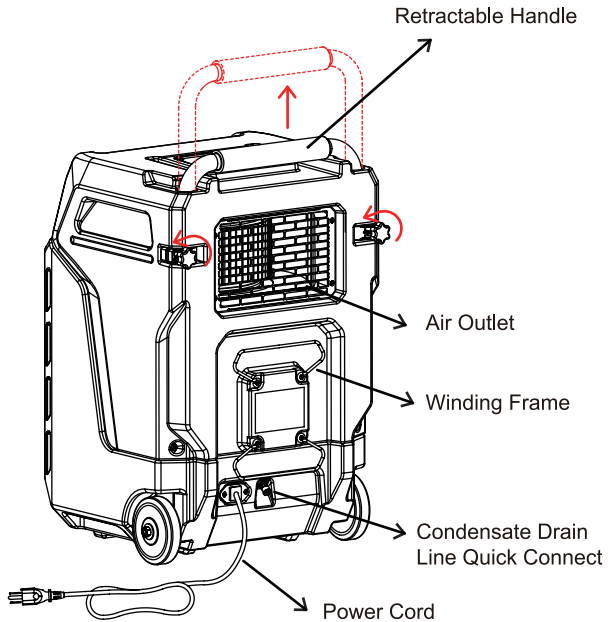
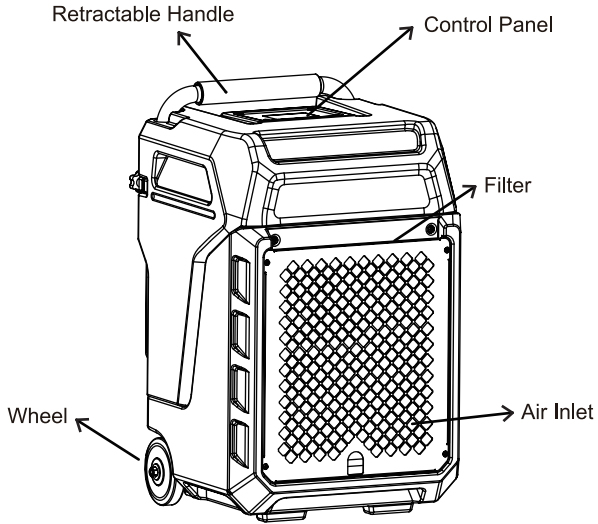
Drain Hose Notes

- The Storm 80X is equipped with an external drain line connection, making it easy to plug in.
- The drain line can be directed outside or into any sink, drain, etc.
- For more effective draining, uncoil the entire hose before using.
- Never place the end of the hose higher than 19 feet.
- Always ensure that the drain hose is not blocked prior to use.

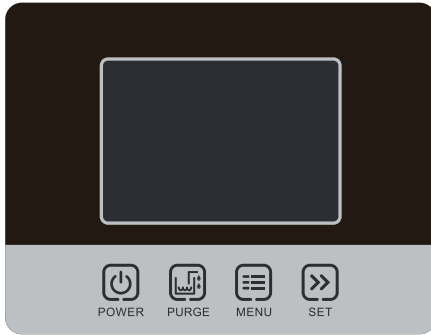
Transportation Notes


- Always secure the dehumidifier during transportation.
- If the unit is transported vertically, return it to a normal horizontal position, and let sit for 30 minutes prior to use.


Parts Diagram





LCD Display Instructions



 **POWER** Press this button to turn on/off the dehumidifier. When the dehumidifier is turned off, the fan will delay turning off. Please do not unplug the power before turning off the fan.

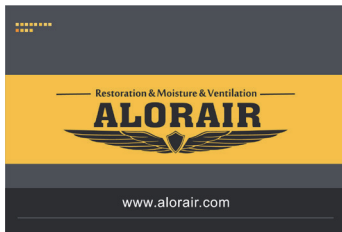
 **PURGE** Press this button to drain condensate water once.

 **MENU** Press this button to switch between sub interfaces.

 **SET** This button is used to select confirmation.

1. When The Machine Is Powered On But Not Working:

(After power on, the buzzer makes a sound.)



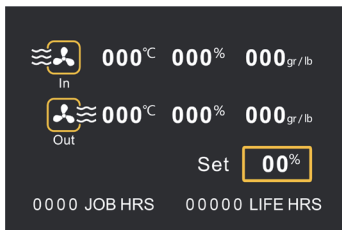
Boot Display: The LOGO interface will disappear after 2 seconds. Enter the following interface.



The machine displays when it is not working. (Power off state but have electricity).

2. Main Interface Display Of Dehumidification State:

The following information is displayed when the machine is working:



• 000 JOB HRS:

Refers to the working time, which is defined as the time from starting up to shutting down, including the defrost time during the period, and the standby time after the humidity. The sub-menu has a reset function. If not, the working time shall be accumulated.

Total time 9999 hours, the largest cumulative to the largest automatically reset after restart, and display units for hours (round off).

- **000 LIFE HRS:**

Refers to the total working time, i.e. the total working time (hours), which is in hours. (Press the mode key + select the confirmation key, and the total working time will be cleaned after 3 seconds.)

- **IN/OUT 000°C, 000%, 000 gr/lb:**

Indicates the temperature, humidity and moisture content of the air inlet and outlet [GPP - grain per pound (gr/lb)].

- **Set 00%:** Indicates set humidity.

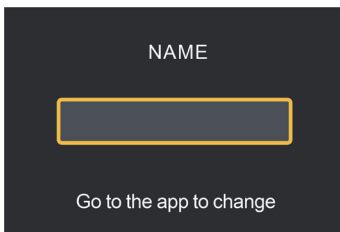
- If the main interface does not operate for 80 seconds, the screen will go out. Press any key to wake up.

- Other icons light up or flicker when opened

The total working time is the accumulation of each working time (hours) in hours. (Press the mode key + select to confirmation key, and the total working time will be cleaned after 3 seconds.

3. Dehumidification Status Sub-menu Interface Display

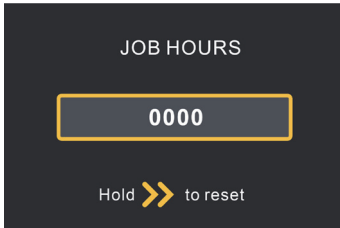
3.1



Device Name Displayed On The Screen:

You can change the device name on the APP application.

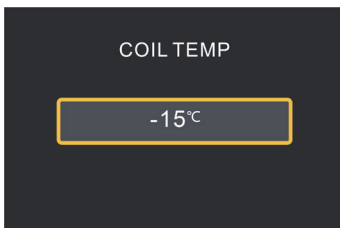
3.2



Indicates: Do I need to clear out this time?

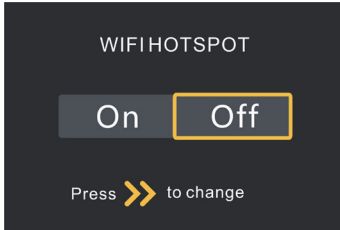
Press ">" if you need to clear. When the operation is completed, the working time of the main interface and the working time of this interface will be reset and started to be instant again. After accumulation (9999), clean up and round.

3.3



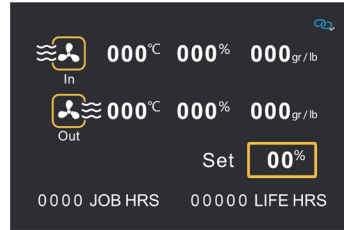
Coil Temp. 000 °C: Used to display the current temperature of the coil. When it is below zero, the "-" symbol is displayed in front. "-" is not required on zero.

3.4.1



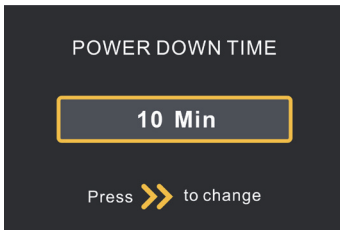
The WIFI hotspot mode is initially set to be off by default, and can be turned on or off by pressing the ">" button. (*This feature only applicable to WIFI version unit.)

3.4.2



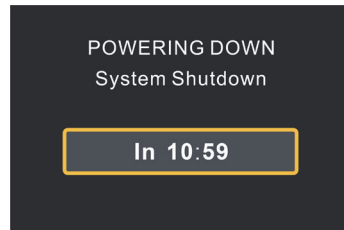
After the WIFI hotspot is on, the hotspot icon lights up, the wireless network function is disabled. To connect to a wireless network, turn off the WIFI hotspot. (*This feature only applicable to WIFI version.)

3.5.1



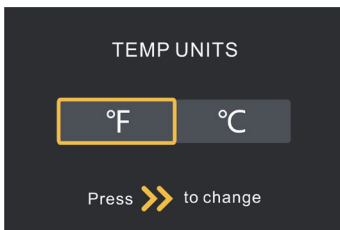
The power down time is adjusted according to ">" and the power down time increases from 3 to 20 minutes (3-5-10-15-20), which is the so-called stop time of the fan after shutdown, in order to better drain the water. Factory set for 3 minutes (Unit shutdown caused by fault code, with the fan delay-off time of 1 minute.)

3.5.2



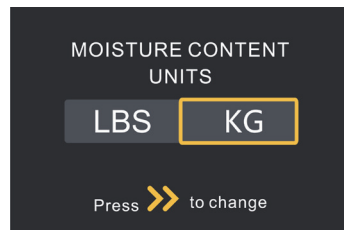
The screen displays when you press shutdown: Indicates: the fan is closed after a few minutes and the standby page UNIT OFF is displayed after the fan is closed

3.6



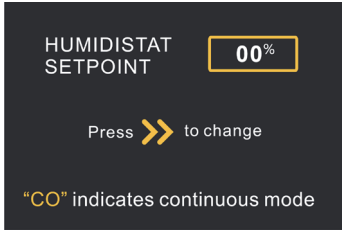
Temp Units °F/°C: Used for temperature scale switching. Press the ">" button to switch °C/°F, after switch symbol of corresponding parts is also changing.

3.7



MOISTURE CONTENT UNITS: It is used to switch the unit of GPP value with moisture content. Press > to switch the "lb" or "kg", after switch symbol of corresponding parts is also changing.

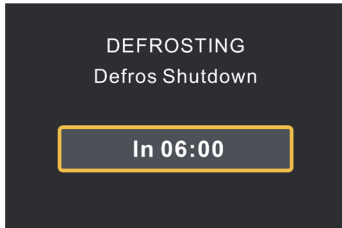
3.8



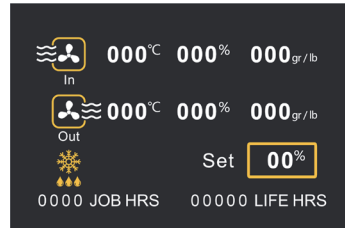
Humidistat Setpoint 00%: Used for setting dehumidification mode humidity. Press ">" to set the humidity. The adjustment range of humidity setting is between 25 and 80%. Each key rises or falls 5%, which can be recycled. When the setting is completed, do not operate for 5 seconds and begin to take effect. (Otherwise, the compressor will be shut down immediately after it is below ambient humidity at the time of setting.) Humidity below 25 percents "CO" mode recyclable. The main interface displays the set parameters.

4. Main Interface Frosting Status Display:

The machine will display this after defrost when running.

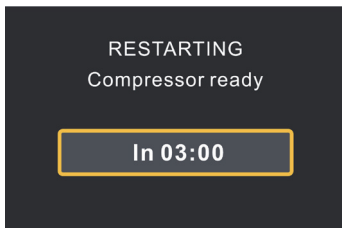


When the machine is running normally, "Defrost Shutdown In 06:00" will occurs in the interface after defrosting. It's defrost countdown use seconds as units. This screen displays only 3 seconds. Displays the previous interface and status after restoration. If it is the home screen, the frost icon will flash.



When the user is operating in the sub-menu, the machine is in the frosting state. At this point, the frosting interface displays 3 seconds, and returns to the sub-menu program in the background count down. When the user returns to the main-interface without any operation, the frosting state is displayed in the main interface in the way of icon flicker.

5. Compressor On Waiting Interface Display



Compressor ready In 03:00 Indicates:

That the interface will be displayed when the compression is in a protected state. (Including power-on and shutdown, the humidity rises immediately after the arrival of "LO", "HI", and the shutdown resumes immediately after the emergence of "LO", "HI"). Displays the countdown in seconds. If the above situation does not occur within 3 minutes, it is not shown.

6. Water Pump Working Interface Display



Pump Working Countdown:

Indicates: No matter in which working state and interface, as long as the pump works, this interface appears and counts down to 28 seconds. However the interface only displays the previous working status and interface after 3 seconds. For example, after 3 seconds, there is a drainage icon on the main interface and it will flash until the drainage is finished.

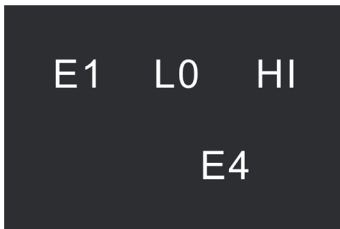
Important

- Unplugging the unit without running the shutdown sequence will allow water to remain in the unit after use.
- Tilting the unit more than 70 degrees on the handle side or more than 20 degrees on the non-handle side may result in water spillage.
- Tilting the unit without running the final purge may result in water spillage.

The fan delayed shutdown interface will be displayed after the power button is pressed to shut down. After the fan is turned off, the pump will work for 28 seconds to drain the water, and then this warning interface will be displayed. After 10 seconds, the standby interface will be displayed.

7. Interface Display In Case Of Failure

Machine running time fault display:



Make fault judgment and take corresponding actions after starting up. Regardless of the state, the fault is executed first and the fault code is displayed on the interface. If there is a fault in the sub-menu operation, immediately return to this interface display fault (including defrosting state). (The fault is judged when the pump works, and the fault is displayed as usual, but the pump needs to complete the water pumping this time). Multiple faults can be displayed at the same time.

Description Of Fault Display:

- ◆ E1: Sensor malfunction or inability to receive data.
- ◆ L0: Low temperature alarm.
- ◆ H1: High temperature alarm.
- ◆ E4: Water full alarm.

Maintenance Instructions

Before Use

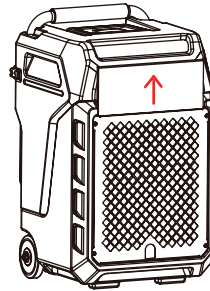
- Check the power cord for signs of damage such as fraying. Replace the cord before use if there is any damage.
- Check the filter for signs of dirt or obstructions. Clean or replace the filter as necessary.
- Check the coils for signs of buildup. Clean if needed.

Cleaning the Machine Body

Use a soft, damp cloth to clean the exterior of the unit. Do not use any soap or solvents.

Filter Maintenance

1. Unplug the unit.
2. Slide out the filter.
3. Check the filter for dirt and buildup.
4. For MERV-8: Replace it as necessary, we recommend checking the filters at least 1x/year.

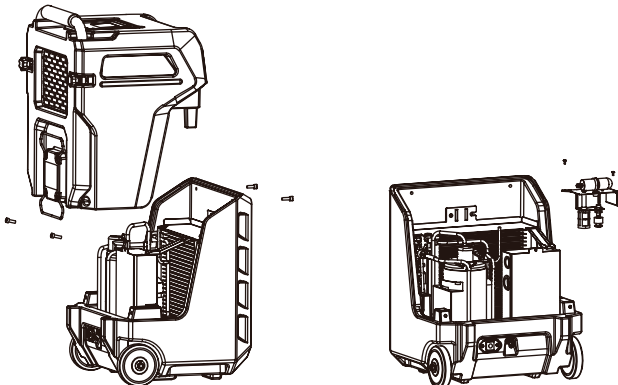


Coil Maintenance

- Once per year, clean the coils with an approved coil cleaner.
- Coil cleaner should be a self-rinsing, foaming cleaner such as WEB® Coil Cleaner.

Replace the Water Pump

1. Remove the four screws on the upper and lower shells.
2. Lift the upper shell and unplug the middle pair of wires.
3. Remove the three screws that fix the water pump on the lower housing, and unplug the water pipe and connecting wire.
4. Remove the water pump and replace it.



Troubleshooting

| Symptom | Cause | Solution |
|------------------|--|--|
| Display is Blank | Poor Connection | Verify that both ends of the power cord are plugged in |
| | Power Outage | Reset power |
| No Airflow | Filter is Dirty | Clean the filter(s) |
| | Air Inlet or Outlet is Blocked | Clear the blockage |
| Error Code: E1 | Humidity Sensor or Communication Error | Check to ensure that the sensor wire is connected at both ends. If no issues are visible, the sensor may be faulty. |
| Error Code: E4 | Water Pump Issue | Check if the water pump wiring is loose. Replace the water pump. |
| | Water Pipe Blockage | Check if the water pipe is twisted or deformed . |
| Error Code: LO | Room Temperature is below 35.6°F | Increase the room temperature so it is within operating range (above 35.6°F). If error still displays, check sensor. |
| Error Code: HI | Room Temperature is above 102.2°F | Decrease the room temperature so it is within operating range (below 102.2°F). If error still displays, check the sensor. |

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 it to dry.
2. Clean out the pump reservoir.
3. Wrap and secure the power cord.
4. Cover filter mesh.
5. Store in clean, dry space.

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 charge 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. 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. In the event that the product is sent for repair without explicit guidance from our customer service team, AlorAir shall not assume responsibility for any associated repair costs.

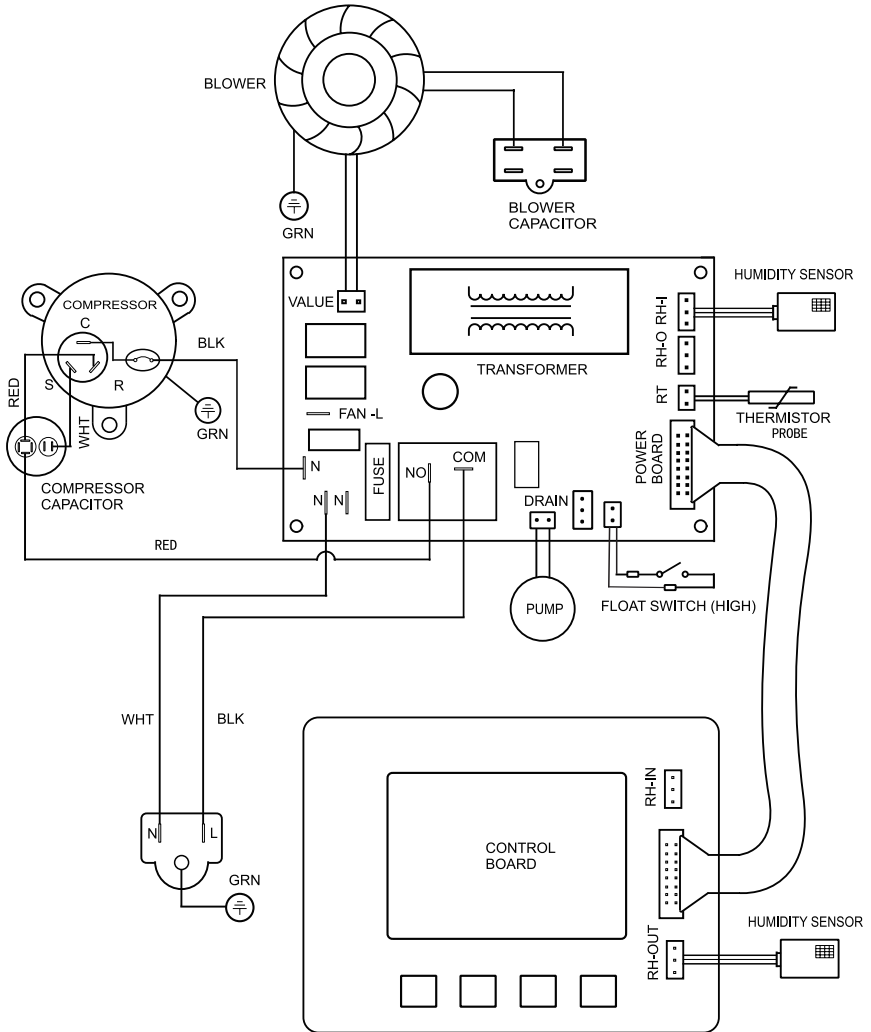
Limited Warranty Exclusions

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.

Wiring Diagram





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
- ▶ Register your unit for warranty using this link: 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.



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