User's Manual

1. WiFi **CONNECTION**
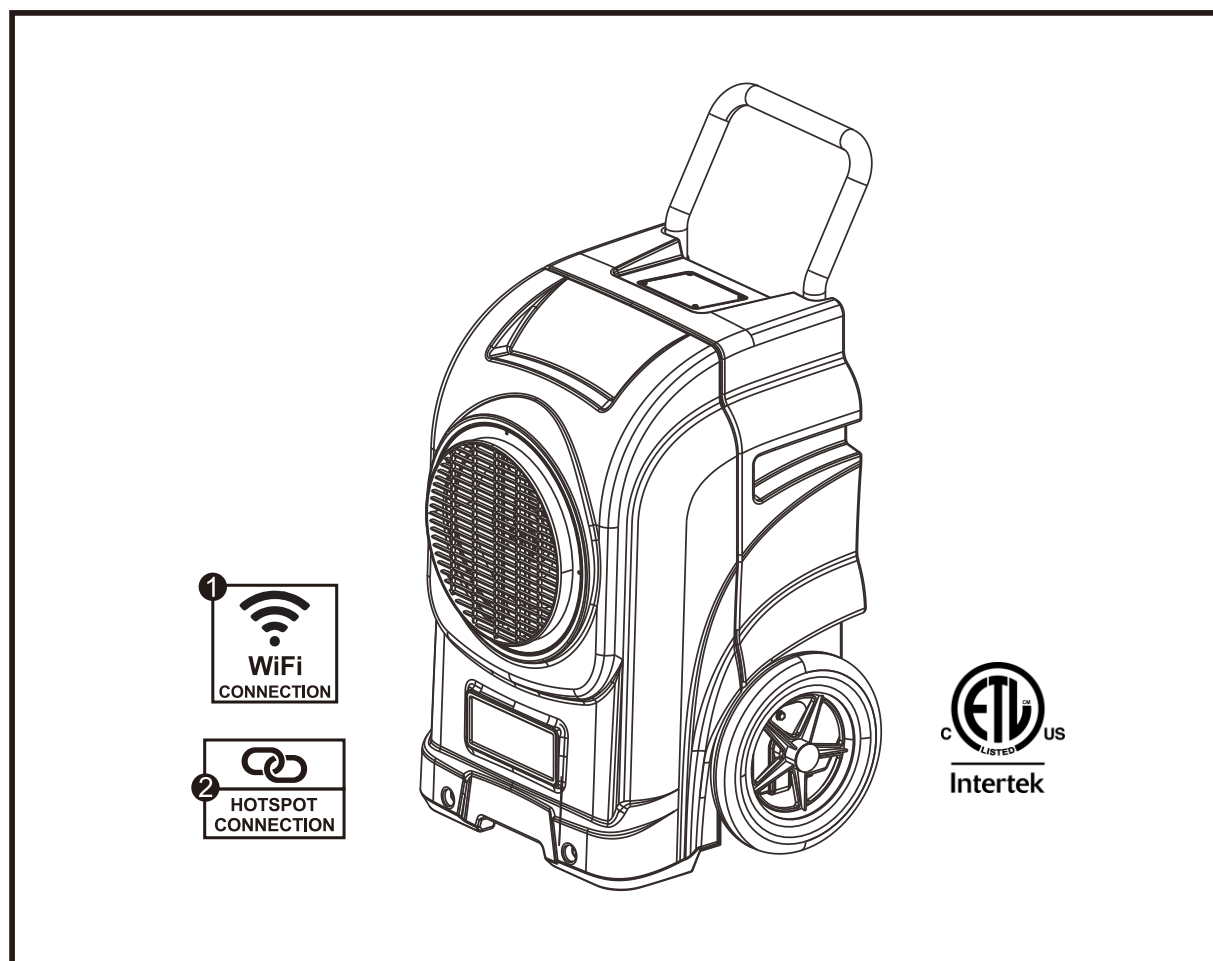
2. HOTSPOT **CONNECTION**

c **ETL** us
LISTED
Intertek

STORM ELITE

INSTALLATION AND OPERATIONS MANUAL
- READ AND SAVE THESE INSTRUCTIONS -

AlorAir Solutions INC.
Add: 14752 Yorba Ct Chino CA 91710 US
Tel: 1-888-990-7469
E-mail: sales@alorair.com

Note: as we keep upgrading our product, we reserve the right to modify the product without notice in advance.

※ Safety Notes ※

• The Storm Elite dehumidifier must always be connected using a grounded electrical connection as required for all electrical appliances. The warranty is voided and all responsibility for the operation transfers to the owner if non-grounded wiring is utilized.

• Your Storm Series dehumidifier must be maintained and serviced by qualified technicians.

• Storm dehumidifiers are intended for use only when the unit is installed in a level and upright position. Operating the unit in any other position could cause water to come in contact with the electrical components.

• Before moving the dehumidifier, turn off the unit and allow the pump reservoir to empty (if unit is already off, press "Purge" button to confirm drain reservoir is empty). After the pump has finished operation, unplug the power cord and relocate the unit to the desired position.

• If the inside of the machine has gotten wet for any reason, the unit should be opened and allowed to dry thoroughly before reconnecting it to electric and restarting.

• For proper operation, neither the inlet or discharge should be positioned against a wall. A minimum of 6' clearance between the dehumidifier and any obstruction is required.

• Do not insert any objects or fingers into the inlet or discharge.

• All work on the machine should be done with the unit off and unplugged.

• Do not spray water or cleaner directly on the exterior of the unit. Only use a damp cloth to clean the exterior and always unplug the unit first.

• Do not use unit as shelf or device to hang clothes as this could cause damage to unit.

• Do not stand on the machine.

※ Table of Contents ※

※ Introduction ※

Identification

Congratulations on purchasing a Storm Elite dehumidifier! The Storm Elite comes with an extensive warranty plan. To ensure you are eligible, be sure to note the serial number and date of purchase. The serial number can be found on the data on the back of the unit.

Model Name: Storm Elite

Serial Number: _____   **Date of Purchase:** _____

Customer Service

For additional questions concerning the operation fo your dehumidifier, please

• Contact your installing contractor
• Contact AlorAir Solutions: 1-888-990-7469
                              sales@alorair.com

Features

• 125 Pints Per Day
• High COP: 2.4 L/kWh
• Only 63 dBa
• Automatic Humidistat
• Built-in Pump with Overflow Protection
• Self Monitoring System
• Eco-Friendly R410A Refrigerant
• Easy Access to Internal Components
• Auto Restart After a Power Outage
• Unit Can be Ducted, If Necessary

How Your Storm Dehumidifier Works

The Storm Elite 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 water vapor will turns into liquid condensation. The air is then reheated through the condenser coil and distributed back into the room.

Electrical Supply

WARNING   240 Volts may cause serious injury from electric shock.

Power Supply: 115V, 60 Hz AC Only 1 Phase
Outlet Requirement: 3-Prong, GFCI
Circuit Protector: 15 Amp Time Delay Fuse or Circuit Breaker

1. Disconnect electrical power before servicing
2. Only plug unit into grounded electrical outlet
3. Do not use an extension cord
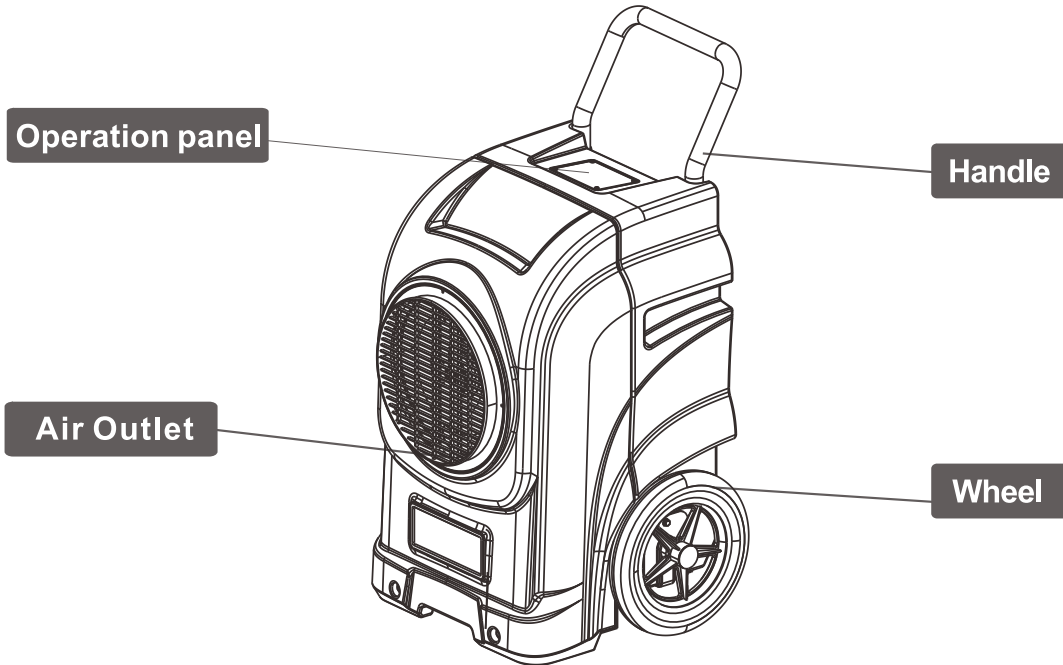4. Do not use a plug adapter

Installation

Place the Elite in your desired location. The inlet of the machine should be at least 6'(ft) away from any obstructions. If the unit has been transported in a horizontal position, allow it to sit in an upright position for at least 30 minutes before operating

WARNING

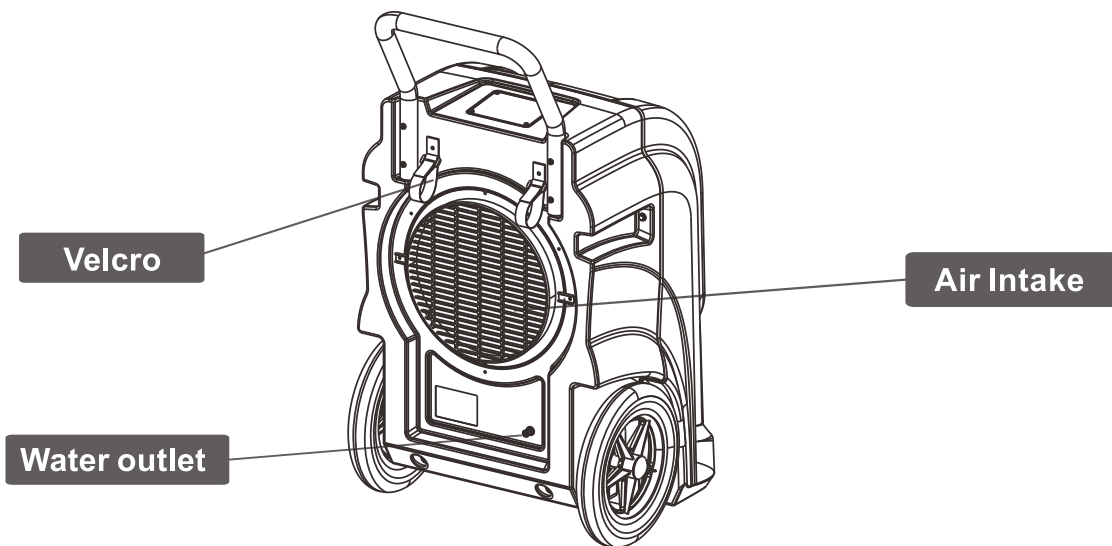Do not use dehumidifier in an environment where corrosive or high VOC materials are applied.
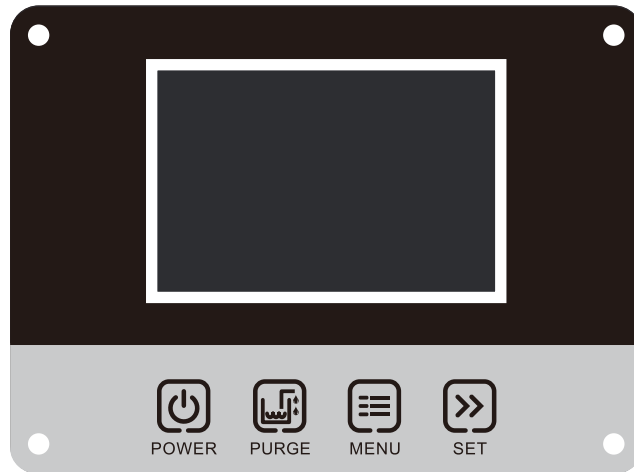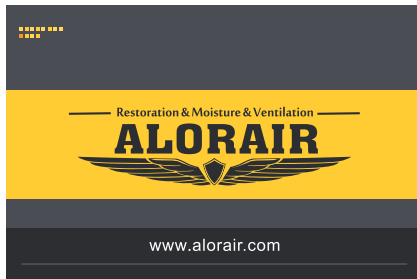
※ Unit Overview ※

Front View

Operation panel

Handle

Air Outlet

Wheel

Rear View

Velcro

Air Intake

Water outlet

※ LCD Display Instructions ※

POWER   PURGE   MENU   SET

1. Plug in the dehumidifier.

Restoration & Moisture & Ventilation
ALORAIR
www.alorair.com

Boot display: The LOGO interface will disappear after 2 seconds.

UNIT OFF

Press ⏻ to start

This indicates that the dehumidifier is not running.

2. Main interface .

This display is only shown when the dehumidifier is powered on.

• JOB HRS:

This refer to the time the dehumidifier has been running for.

The JOB Hours display will not exceed 9999(hours). When it goes beyond the maximum number, the hour display will go back to 0.

In   80°F   60%   93 gr/lb

Out   80°F   60%   93 gr/lb

Set 00%

000 JOB HRS   000 LIFE HRS
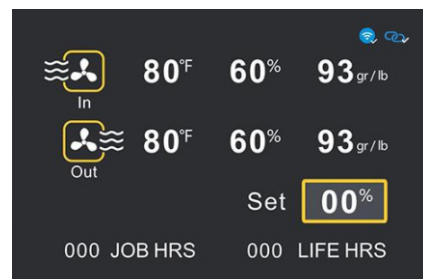
• **LIFE HRS:**

This refers to the amount of time the unit has been used since the date of manufacture.

• **IN/OUT 00°F 00% 00 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 10 minutes, 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 submenu interface display
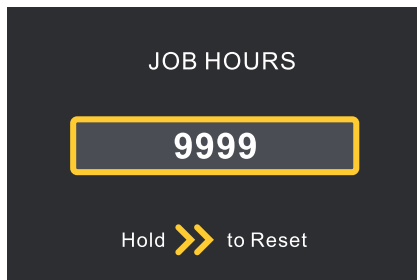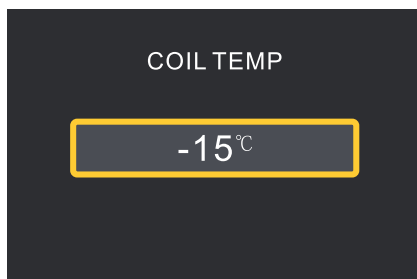
3.1

NAME

Alorair Dehumidifier

Go to the app to change
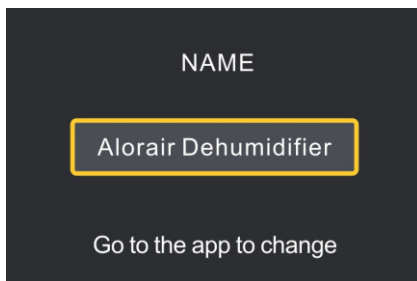
Device name displayed on the screen:
You can change the device name on the APP

3.2

JOB HOURS

9999

Hold ≫ to Reset

This page allows you to reset the job hours.

3.3

COIL TEMP

-15℃

This display shows the coil temperature.

3.4

WIFI HOTSPOT

On Off
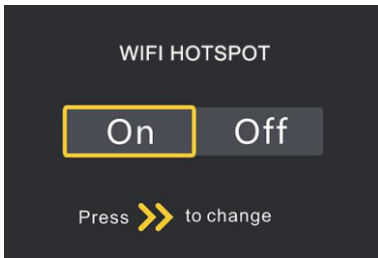
Press ≫ to change

This is to enable or disable the WiFi hotpot of this unit.

3.5.1

POWER DOWN TIME

10 Min
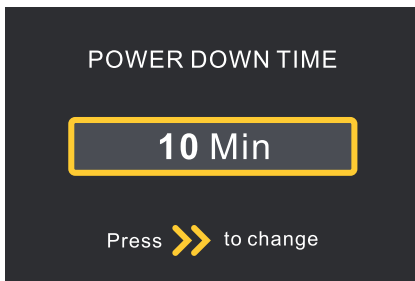
Press ≫ to change

This allows you to change the count down before the dehumidifier completely shuts off after reaching the humidity setpoint or after manually pressing the power button.

3.5.2
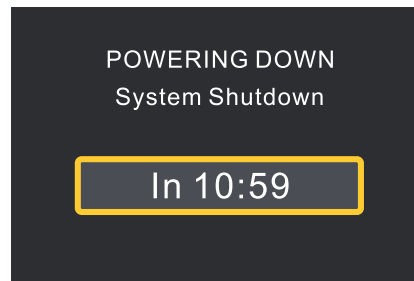
POWERING DOWN
System Shutdown

In 10:59

Count down before the fan completely shuts off.

3.6

TEMP UNITS

°F °C

Press ≫ to change

Count down before the fan completely shuts off.

3.7

MOISTURE CONTENT UNITS

LB KG

Press ≫ to change
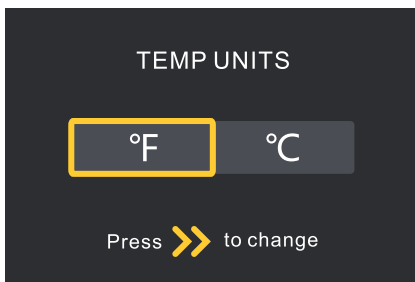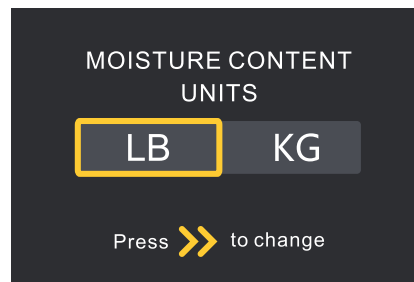
This page allows you to switch the Moisture weight scale reading.

3.8

HUMIDISTAT
SETPOINT   00%

Press ➤➤ to change

"CO" indicates continuous mode
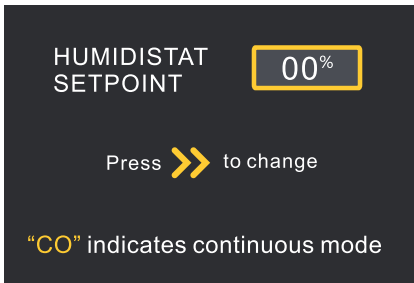
This page allows you to change the humidity setpoint from 25% to 80%. You may also set it to run continuously by changing the value of "%" to 'CO'.

4. Display indicator when the defrost mode is ON.

DEFROSTING
Defrost Shutdown

In 06:00

80°F 60% 93 gr/lb
In
80°F 60% 93 gr/lb
Out
❄
💧💧💧   Set 00%
000 JOB HRS   000 LIFE HRS
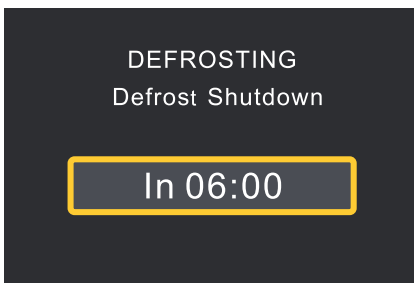
When the machine is running normally, "Defrost SHUTDOWN IN 06:00" will occurs in the interface after defrosting. It's defrost countdown use seconds as units. This screen displays only 3 seconds. Displays the previous interface and status after restoration.If it is the home screen, the frost icon will flash.
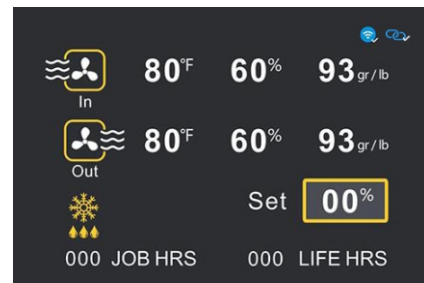
When the user is operating in the submenu, the machine is in the frosting state.At this point, the frosting interface displays 3 seconds, and returns to the submenu program in the background countdown.When the user returns to the main interface without any operation, the frosting state is displayed in the main interface in the way of icon flicker.

5. Compressor on waiting interface display
Compressor protection time not shown:

RESTARTING
Compressor ready

In 03:00
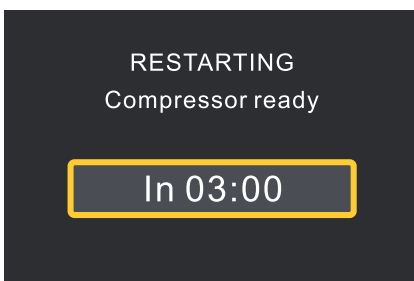
When the unit allows the compressor to properly shut down for at least 3 minutes before turning off the dehumidifier completely. This protects the coil from being damaged due to improper shut down process.

6. Water purging interface/display

PURGING SYSTEM

Staring 28 second

Purge Cycle

⚠️ **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.

In 80°F 60% 93 gr/lb
Out 80°F 60% 93 gr/lb
Set 00%
000 JOB HRS   000 LIFE HRS

When the purge button is pressed, or when the water reservoir is full, the pump will run for 30 seconds.

7. Error codes.

The unit displays an error code to better identify the unit's problem.

E1   L0   HI

E5   E4
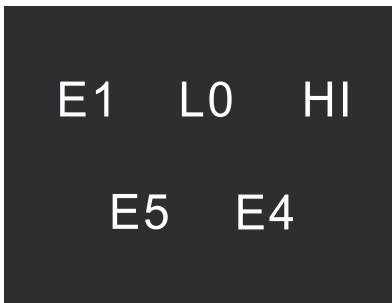
Make fault judgment and take corresponding actions after starting up. Regardless of the state, the fault is executed first and the fault code is displayed on the interface. If there is a fault in the sub-menu operation, immediately return to this interface display fault (including defrosting state). (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.

※ Preparing the Unit for Use ※

Setup

1.Place the dehumidifier on a level surface. Keep the dehumidifier 6' away from any obstructions.

2. The included drain line attaches to the unit via a quick connection fitting that is located on the base of the unit. The drain line should be routed to a suitable drain or outside. Since the unit has an integral drain pump, the drain line may go up vertically (no more than 15') prior to reaching the final drain location.
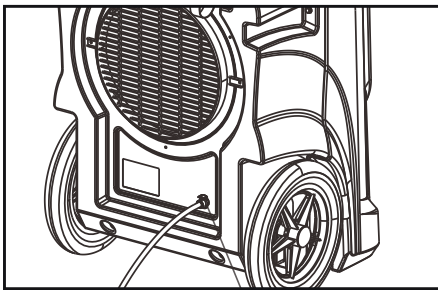
Quick Connection to Drain Tube

Quick Connect Fitting

15'
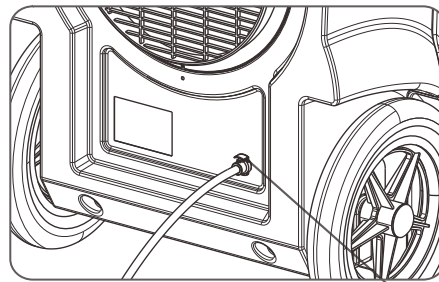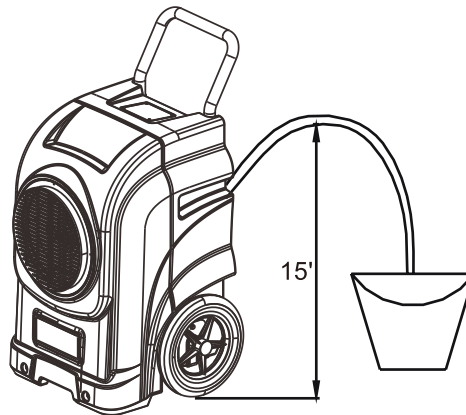
3. Firmly insert the power cord into the socket on back of the unit near the top.

4. Turn on the dehumidifer and use the control panel to set up the dehumidifier as desired.

Optional Duct Installation

Ducting of the unit allows you to condition an adjacent room or focus the discharge to a specific area. The inlet/return grill is designed for 12" flex duct while the supply grille is designed for 12" flex duct or layflat ducting.

Discharge Ducting
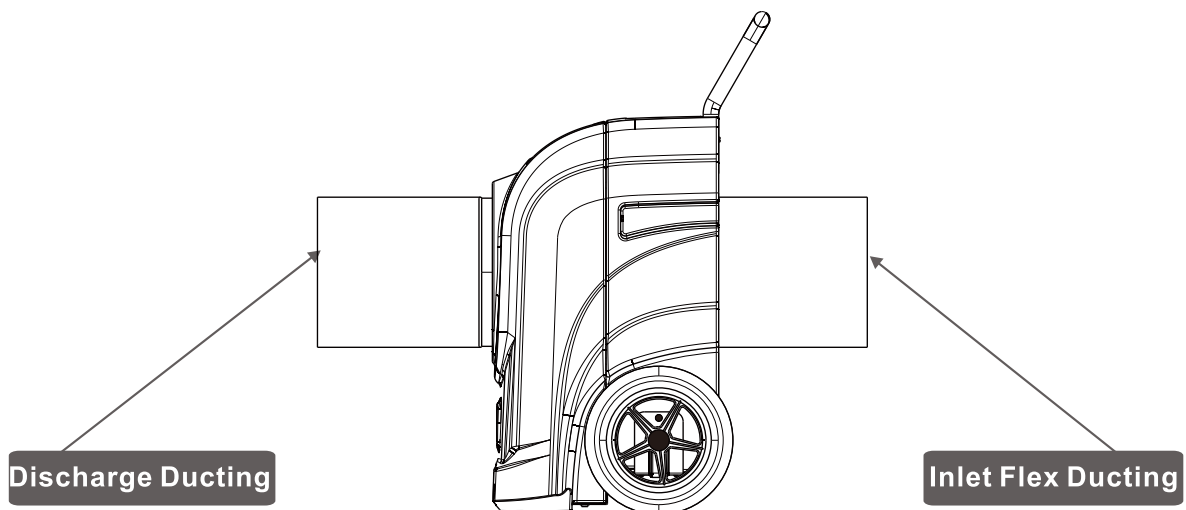
Inlet Flex Ducting

1. Maximum Total Duct Run = 20'
2. Maximum run if only ducting inlet or outlet= 12'
3. It may be helpful to remove the grilles from the end caps when connecting flex duct.

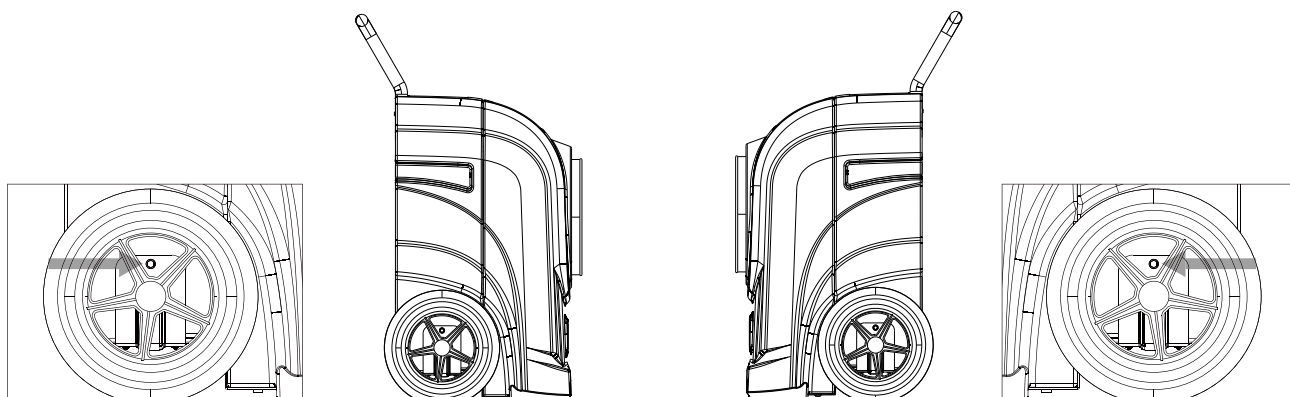## Accessing Internal Components

WARNING   Always unplug unit prior to performing any maintenance.

1.Remove the four screws shown in the figure below.
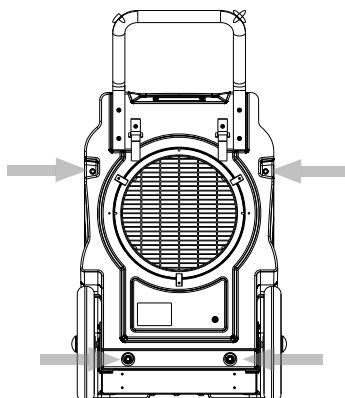
2. Remove the screws on both sides of the wheel.

3. Remove the back shell and unplug the water pipe joint at the same time.
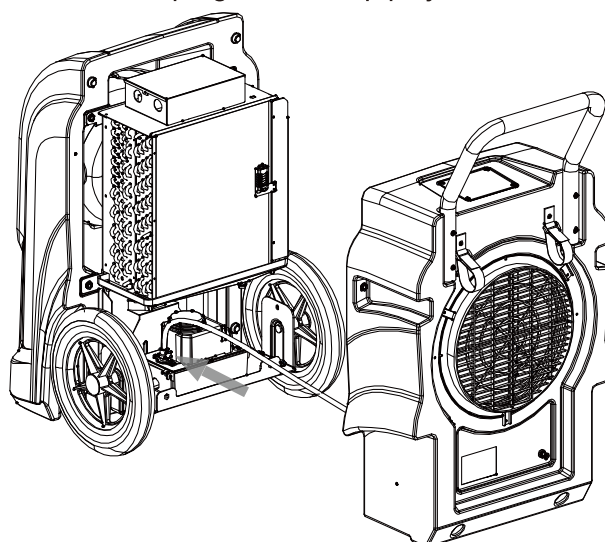
※ Maintenance and Repair ※

Exterior Cleaning

 • Use a soft, slightly damp cloth to wipe the plastic body.

 • Never spray the exterior directly with water or cleaner.

Filter Cleaning

The Elite comes standard with a prefilter and MERV-8 filter, which are washable.

1.Rotate the three buckle of the air inlet, as shown on the right after completion.
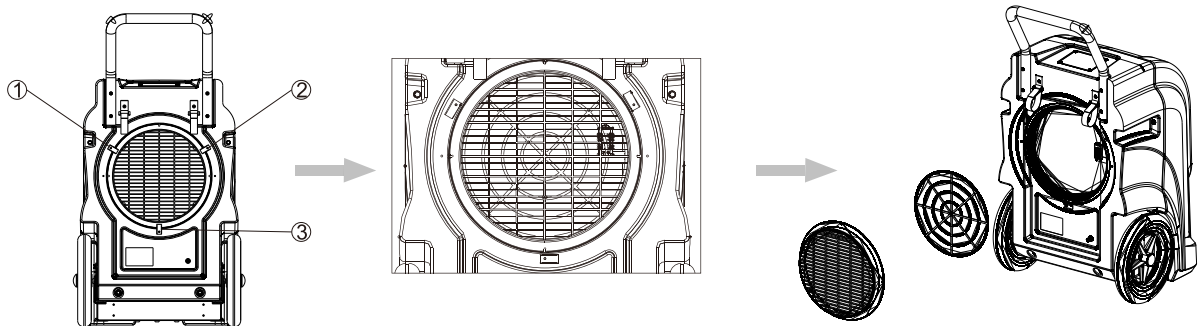
2. You can clean the filter by vacuuming it or rinsing it with warm water (no soap or solvents). Always make sure the filter is dry prior to restarting the unit.

Advanced Pump Cleaning:

1. a. Use the manual pump button (Purge), to drain any water from reservoir.
   b. Unplug the unit, and remove pump from reservoir (see page 13)
   c. Use a wet dry vac or paper towels to remove any remaining water from the pump reservoir.
2. Fill the pump reservoir with cleaning solution (15 oz water / 1 oz bleach or 12 oz water /4 oz white vinegar).
3. Reassemble the pump and use the manual pump button to flush the mixture through the discharge tubing.
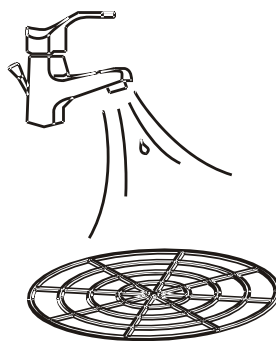4. Mix another batch of cleaning solution then pour it slowly into drain pan under evaporator coil and allow it to clean the hose from pan to pump. This process can be stopped when the pump energizes 1 time.
   NOTE: If you get any bleach/water mixture on coils, flush with water.
5. Pour sufficient clean water through the drain pan so that the pump activates twice (16-32 ounces).
6. Reassemble the unit and return it to operational status.

Cleaning the Coils

The coils on your dehumidifier also need to be cleaned once per year. To clean, simply spray with a self-rinsing, foaming coil cleaner (such as WEB Coil Cleaner).

Access screws for electrical compartment
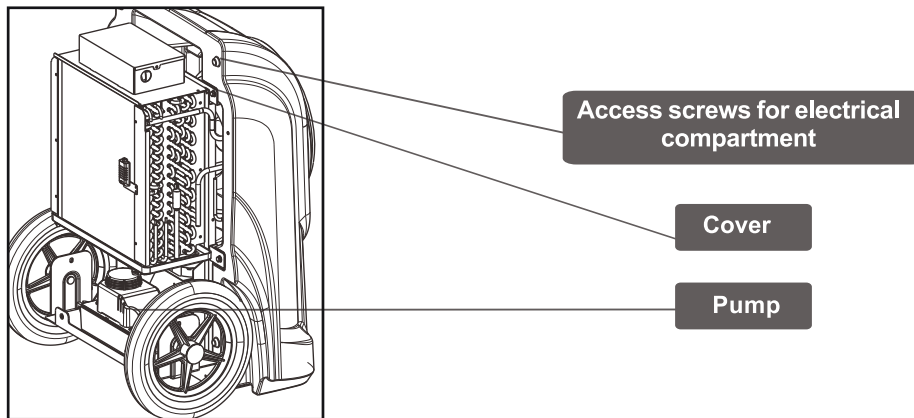
Cover

Pump

Integral Pump Maintenance

NOTE: *This pump requires routine maintenance that is not covered by your 1 year parts warranty. Only a defective pump will be repaired or replaced under the warranty.*

As with all pumps, preventative maintenance is necessary to prevent issues from dirt and slime that may accumulate in the drain system. This includes the drain pan, hose to the condensate pump, pump reservoir, pump head, float assembly, and discharge tubing

The pump is designed with quick connection construction, making it easy to access the pump and components for service and maintenance

To Remove Pump from Reservoir:

1. Unplug the unit.
2. Open the back housing as shown on page 12.
3. Remove the condensate tube from the pump.
4. Use the quick connect fittings to disconnect the main power and float switch electrical cables.
5. Use a flathead screw driver to gently pry the the pump off the reservoir.

At least once per year, clean your pump system.

Basic Pump Cleaning:

1. Press the pump button (Purge) to drain any water from reservoir.
2. Disconnect power to the dehumidifier.
3. Mix a 16 oz cleaning solution of one of the following: 1 oz bleach / 15 oz water or 4 oz white vinegar / 12 oz water. Pour the solution into the drain tray at the base of the coils.

NOTE: *If you get any cleaning solution on the coils, flush with water*

4. Allow cleaning solution to soak for 15 minutes.
5. Reconnect power to dehumidifier.
6. Pour clean water into reservoir so the pump activates twice (about 16-32 oz. water)
7. Repeat if needed or refer to Advanced instructions.

※ **Storing Your Dehumidifier** ※

If you plan on storing your dehumidfier for an extended period of time:

1. Turn unit off and allow to dry.

2. Manually drain pump reservoir.

3. Wrap and secure the power cord.

4. Clean the filter.

5. Store in clean,dry environment.

※ **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
	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	Problem with Pump	Verify that the pump is properly installed and functioning. If so, unplug the unit for two minutes, then restart.
Error Code: LO	Room Temperature is below 33.8℉	Increase the room temperature so it is within operating range (above 33.8℉).If er ror still displays, check sensor.
Error Code: HI	Room Temperature is above 105℉	Decrease the room temperature so it is within operating range (below 105℉). If error still displays, check the sensor.
E5 Error Code	Refrigerant Leak	Contact Your Installer for Assistance

Pump Alarm-Error Code E4

If an E4 code appears on the display:

1. Reset the unit by disconnecting the power cord and then reconnecting it.

NOTE: The unit will not function until the code has been cleared.

2. Manually check to see if pump is operational by pressing the drain button. Verify that the pump energizes and de-energizes properly. Additionally, check to see if any water purged from the system.

3. If you haven't cleaned the system recently, check the discharge line for an obstruction, then clean the balance of the pump system (see "Maintenance" section for details).

4. Replace the hoses and/or pump, if maintenance alone isn't sufficient.

※ 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 support@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.