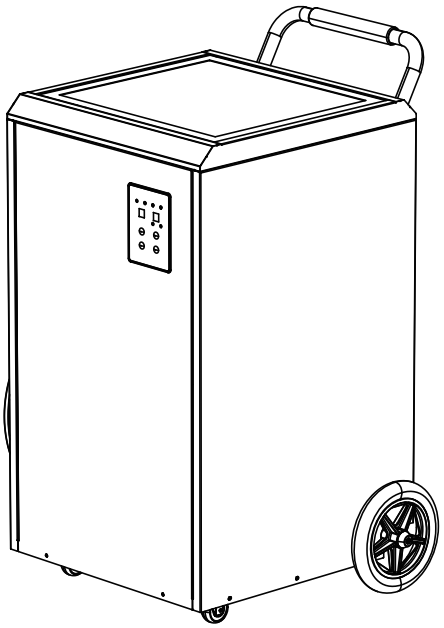
Stealth 115



Installation and Operation Manual

Read These Instructions Carefully Before Proceeding

www.SeairaGlobal.com

Safety Notes

WARNING- Dehumidifier is filled with flammable gas: R-32.

WARNING-Risk Of Fire. Flammable Refrigerant Used. To Be Repaired Only By Trained Service Personnel. Do Not Puncture Refrigerant Tubing.

AVERTISSEMENT-Risque d'incendie. Inflammable Réfrigérant utilisé. A reparer uniquement Par un personnel de service qualifié. Ne pas Tube deréfrigérant perforant.

WARNING-Risk Of Fire. Dispose Of Properly In Accordance With Federal Or Local Regulations. Flammable Refrigerant Used.

AVERTISSEMENT-Risque d'incendie. Se débarrasser Correctement conforme à la loi fédérale ou Réglementations locales. Inflammable Refrigérant utilisé.



Caution, risk of fire
Attention, risque d’incendie

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

The appliance shall be installed in accordance with national wiring regulations.

The installation of the appliance and the refrigerant unit must only be made by the manufacturer’s service personnel or suitably qualified person.

The unit must be installed by qualified personnel with a capability certificated for handling R32 refrigerant. Refer to regulation and laws in use on installation location.

WARNING

- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- The appliance shall be stored in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or an operating electric heater.
- Do not pierce or burn.
- Be aware that refrigerants may not contain an odour.

Qualification of Workers

Every working procedure that affects safety means shall only be carried out by competent persons.

Examples for such working procedures are:

- breaking into the refrigerating circuit;
- opening of sealed components;
- opening of ventilated enclosures.

Checks to The Area

Prior to beginning work on systems containing FLAMMABLE REFRIGERANTS, safety checks are necessary to ensure that the risk of ignition is minimised.

Work Procedure

Work shall be undertaken under a controlled procedure so as to minimise the risk of a flammable gas or vapour being present while the work is being performed.

General Work Area

All maintenance staff and others working in the local area shall be instructed on the nature of work being carried out. Work in confined spaces shall be avoided.

Checking for Presence of Refrigerant

The area shall be checked with an appropriate refrigerant detector prior to and during work, to ensure the technician is aware of potentially toxic or flammable atmospheres. Ensure that the leak detection equipment being used is suitable for use with all applicable refrigerants, i.e. non-sparking,adequately sealed or intrinsically safe.

Presence of Fire Extinguisher

If any hot work is to be conducted on the refrigerating equipment or any associated parts, appropriate fire extinguishing equipment shall be available to hand. Have a dry powder or CO2 fire extinguisher adjacent to the charging area.

No Ignition Sources

No person carrying out work in relation to a REFRIGERATING SYSTEM which involves exposing any pipe work shall use any sources of ignition in such a manner that it may lead to the risk of fire or explosion. All possible ignition sources, including cigarette smoking, should be kept sufficiently far away from the site of installation, repairing, removing and disposal, during which refrigerant can possibly be released to the surrounding space. Prior to work taking place, the area around the equipment is to be surveyed to make sure that there are no flammable hazards or ignition risks. “No Smoking” signs shall be displayed.

Ventilated Area

Ensure that the area is in the open or that it is adequately ventilated before breaking into the system or conducting any hot work. A degree of ventilation shall continue during the period that the work is carried out. The ventilation should safely disperse any released refrigerant and preferably expel it externally into the atmosphere.

Checks to The Refrigerating Equipment

Where electrical components are being changed, they shall be fit for the purpose and to the correct specification. At all times the manufacturer's maintenance and service guidelines shall be followed. If in doubt, consult the manufacturer's technical department for assistance.

The following checks shall be applied to installations using FLAMMABLE REFRIGERANTS:

- the actual REFRIGERANT CHARGE is in accordance with the room size within which the refrigerant containing parts are installed;
- the ventilation machinery and outlets are operating adequately and are not obstructed;
- if an indirect refrigerating circuit is being used, the secondary circuit shall be checked for the presence of refrigerant;
- marking to the equipment continues to be visible and legible. Markings and signs that are illegible shall be corrected;
- refrigerating pipe or components are installed in a position where they are unlikely to be exposed to any substance which may corrode refrigerant containing components, unless the components are constructed of materials which are inherently resistant to being corroded or are suitably protected against being so corroded.

Checks to Electrical Devices

Repair and maintenance to electrical components shall include initial safety checks and component inspection procedures. If a fault exists that could compromise safety, then no electrical supply shall be connected to the circuit until it is satisfactorily dealt with. If the fault cannot be corrected immediately but it is necessary to continue operation, an adequate temporary solution shall be used. This shall be reported to the owner of the equipment so all parties are advised.

Initial safety checks shall include:

- that capacitors are discharged: this shall be done in a safe manner to avoid possibility of sparking;
- that no live electrical components and wiring are exposed while charging, recovering or purging the system;
- that there is continuity of earth bonding.

Repairs to Sealed Components

Sealed electrical components shall be replaced.

Repair to Intrinsically Safe Components

Intrinsically safe components must be replaced.

Cabling

Check that cabling will not be subject to wear, corrosion, excessive pressure, vibration, sharp edges or any other adverse environmental effects. The check shall also take into account the effects of aging or continual vibration from sources such as compressors or fans.

Detection of Flammable Refrigerants

Under no circumstances shall potential sources of ignition be used in the searching for or detection of refrigerant leaks. A halide torch (or any other detector using a naked flame) shall not be used.

The following leak detection methods are deemed acceptable for all refrigerant systems. Electronic leak detectors may be used to detect refrigerant leaks but, in the case of FLAMMABLE REFRIGERANTS, the sensitivity may not be adequate, or may need re-calibration. (Detection equipment shall be calibrated in a refrigerant-free area.) Ensure that the detector is not a potential source of ignition and is suitable for the refrigerant used. Leak detection equipment shall be set at a percentage of the LFL of the refrigerant and shall be calibrated to the refrigerant employed, and the appropriate percentage of gas (25 % maximum) is confirmed.

Leak detection fluids are also suitable for use with most refrigerants but the use of detergents containing chlorine shall be avoided as the chlorine may react with the refrigerant and corrode the copper pipe-work.

If a leak is suspected, all naked flames shall be removed / extinguished.

If a leakage of refrigerant is found which requires brazing, all of the refrigerant shall be recovered from the system, or isolated (by means of shut off valves) in a part of the system remote from the leak. Removal of refrigerant shall be according to Removal and evacuation.

Removal and Evacuation

When breaking into the refrigerant circuit to make repairs – or for any other purpose – conventional procedures shall be used. However, for flammable refrigerants it is important that best practice be followed, since flammability is a consideration. The following procedure shall be adhered to:

- safely remove refrigerant following local and national regulations;
- evacuate;
- purge the circuit with inert gas (optional for A2L);
- evacuate (optional for A2L);
- continuously flush or purge with inert gas when using flame to open circuit; and
- open the circuit.

The refrigerant charge shall be recovered into the correct recovery cylinders if venting is not allowed by local and national codes. For appliances containing flammable refrigerants, the system shall be purged with oxygen-free nitrogen to render the appliance safe for flammable refrigerants. This process might need to be repeated several times. Compressed air or oxygen shall not be used for purging refrigerant systems.

For appliances containing flammable refrigerants, refrigerants purging shall be achieved by breaking the vacuum in the system with oxygen-free nitrogen and continuing to fill until the working pressure is achieved, then venting to atmosphere, and finally pulling down to a vacuum (optional for A2L). This process shall be repeated until no refrigerant is within the system (optional for A2L). When the final oxygen-free nitrogen charge is used, the system shall be vented down to atmospheric pressure to enable work to take place.

The outlet for the vacuum pump shall not be close to any potential ignition sources, and ventilation shall be available.

Charging Procedures

In addition to conventional charging procedures, the following requirements shall be followed.

- Ensure that contamination of different refrigerants does not occur when using charging equipment. Hoses or lines shall be as short as possible to minimise the amount of refrigerant contained in them.
- Cylinders shall be kept in an appropriate position according to the instructions.
- Ensure that the REFRIGERATING SYSTEM is earthed prior to charging the system with refrigerant.
- Label the system when charging is complete (if not already).
- Extreme care shall be taken not to overfill the REFRIGERATING SYSTEM.
- Prior to recharging the system, it shall be pressure-tested with the appropriate purging gas. The system shall be leak-tested on completion of charging but prior to commissioning. A follow up leak test shall be carried out prior to leaving the site.

Decommissioning

Before carrying out this procedure, it is essential that the technician is completely familiar with the equipment and all its detail. It is recommended good practice that all refrigerants are recovered safely. Prior to the task being carried out, an oil and refrigerant sample shall be taken in case analysis is required prior to re-use of recovered refrigerant. It is essential that electrical power is available before the task is commenced.

a) Become familiar with the equipment and its operation.

b) Isolate system electrically.

c) Before attempting the procedure, ensure that:

- mechanical handling equipment is available, if required, for handling refrigerant cylinders;
- all personal protective equipment is available and being used correctly;
- the recovery process is supervised at all times by a competent person;
- recovery equipment and cylinders conform to the appropriate standards.

d) Pump down refrigerant system, if possible.

e) If a vacuum is not possible, make a manifold so that refrigerant can be removed from various parts of the system.

f) Make sure that cylinder is situated on the scales before recovery takes place.

g) Start the recovery machine and operate in accordance with instructions.

h) Do not overfill cylinders (no more than 80 % volume liquid charge).

i) Do not exceed the maximum working pressure of the cylinder, even temporarily.

j) When the cylinders have been filled correctly and the process completed, make sure that the cylinders and the equipment are removed from site promptly and all isolation valves on the equipment are closed off.

k) Recovered refrigerant shall not be charged into another REFRIGERATING SYSTEM unless it has been cleaned and checked.

Labelling

Equipment shall be labelled stating that it has been de-commissioned and emptied of refrigerant. The label shall be dated and signed. For appliances containing FLAMMABLE REFRIGERANTS, ensure that there are labels on the equipment stating the equipment contains FLAMMABLE REFRIGERANT.

Recovery

When removing refrigerant from a system, either for servicing or decommissioning, it is recommended good practice that all refrigerants are removed safely.

When transferring refrigerant into cylinders, ensure that only appropriate refrigerant recovery cylinders are employed. Ensure that the correct number of cylinders for holding the total system charge is available. All cylinders to be used are designated for the recovered refrigerant and labelled for that refrigerant (i.e. special cylinders for the recovery of refrigerant). Cylinders shall be complete with pressure-relief valve and associated shut-off valves in good working order. Empty recovery cylinders are evacuated and, if possible, cooled before recovery occurs.

The recovery equipment shall be in good working order with a set of instructions concerning the equipment that is at hand and shall be suitable for the recovery of the flammable refrigerant. If in doubt, the manufacturer should be consulted. In addition, a set of calibrated weighing scales shall be available and in good working order. Hoses shall be complete with leak-free disconnect couplings and in good condition.

The recovered refrigerant shall be processed according to local legislation in the correct recovery cylinder, and the relevant waste transfer note arranged. Do not mix refrigerants in recovery units and especially not in cylinders.

If compressors or compressor oils are to be removed, ensure that they have been evacuated to an acceptable level to make certain that flammable refrigerant does not remain within the lubricant. The compressor body shall not be heated by an open flame or other ignition sources to accelerate this process. When oil is drained from a system, it shall be carried out safely.

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Safety Instructions

Read these instructions carefully and completely before continuing with the installation.

Warning

- Install dehumidifier according to all applicable local, state and national codes
- Connect your dehumidifier to a grounded, dedicated electrical connection that is GFCI protected with 15 amp capacity. Do not use an extension cord or plug adapter
    - The use of any other type of electrical connection will void the warranty.
    - Be sure to follow your GFCI manufacturer's maintenance instructions
- Unless otherwise noted, all maintenance should be done with the unit powered off.

Caution

- Do not insert objects or your fingers into the inlet or discharge of the dehumidifier
- Do not use water to clean the exterior of the unit. To clean the unit, unplug the dehumidifier and then use a damp cloth to wipe the exterior.
- Your dehumidifier should only be serviced or repaired by a qualified technician
- Do not stand on the dehumidifier or place objects on it.
- This unit is not designed for swimming pool applications.

Warranty Registration

Your dehumidifier comes with an extensive warranty. To register your unit, simply fill out and return the warranty form provided in the box, or visit our website.

For future reference, write down the model, serial number and date of purchase. This information is necessary for seeking assistance in the future and can be found on the data label on the side of the unit.

Model Number: **Date Of Purchase:**

Serial Number:

How the Dehumidifier Works

The Stealth 115 is a dehumidifier that can be used in a variety of ways to control the humidity level in your home. In the simplest terms, when the humidity level exceeds the setpoint of the humidity controller, the dehumidifier will energize. The internal fan and compressor will turn on, forcing air to be drawn across the evaporator coil, which is cooler than the dewpoint of the air, allowing the coil to remove water from the air and exit via the drain. The air is then reheated as it flows across the condenser coil and distributed back into the conditioned space.

Dehumidifier Specs

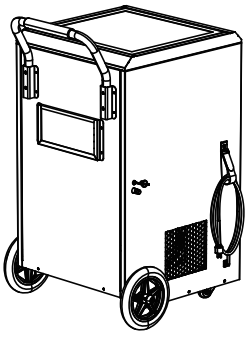
Model	Stealth 115
Capacity (80°F / 60%)	115 ppd
Capacity (65°F / 60%)	73 ppd
Power Supply	115V/60 Hz
Operating Temp.	50 - 102°F
Airflow @ 0.0”	320 CFM
Weight	121

Installation Requirements

- The area where the dehumidifier is located needs to be sealed..
- If the unit is installed in a crawlspace, all vents should be sealed and a vapor barrier should be used.
- For proper ventilation, neither the inlet or the discharge should be positioned against a wall. The top inlet needs a minimum of 12” clearance, the back inlet requires a minimum of 6” clearance, and the discharge requires a minimum of 36” clearance.
- Stealth Dehumidifiers are only intended for operation when the unit is upright and level.

Basic Setup

1. **Place the dehumidifier on a level surface.**
2. **Set up the drain line**
    a. Insert drain line into drain on side of unit (same side as discharge)
    b. The drain line should be routed to a suitable drain option.
    c. THE DRAIN LINE MUST FLOW DOWN INTO PVC DRAIN WITH NO LOOPS, DIPS, OR KINKS.
    d. **Recommended Drain Option- Transition to PVC Pipe**

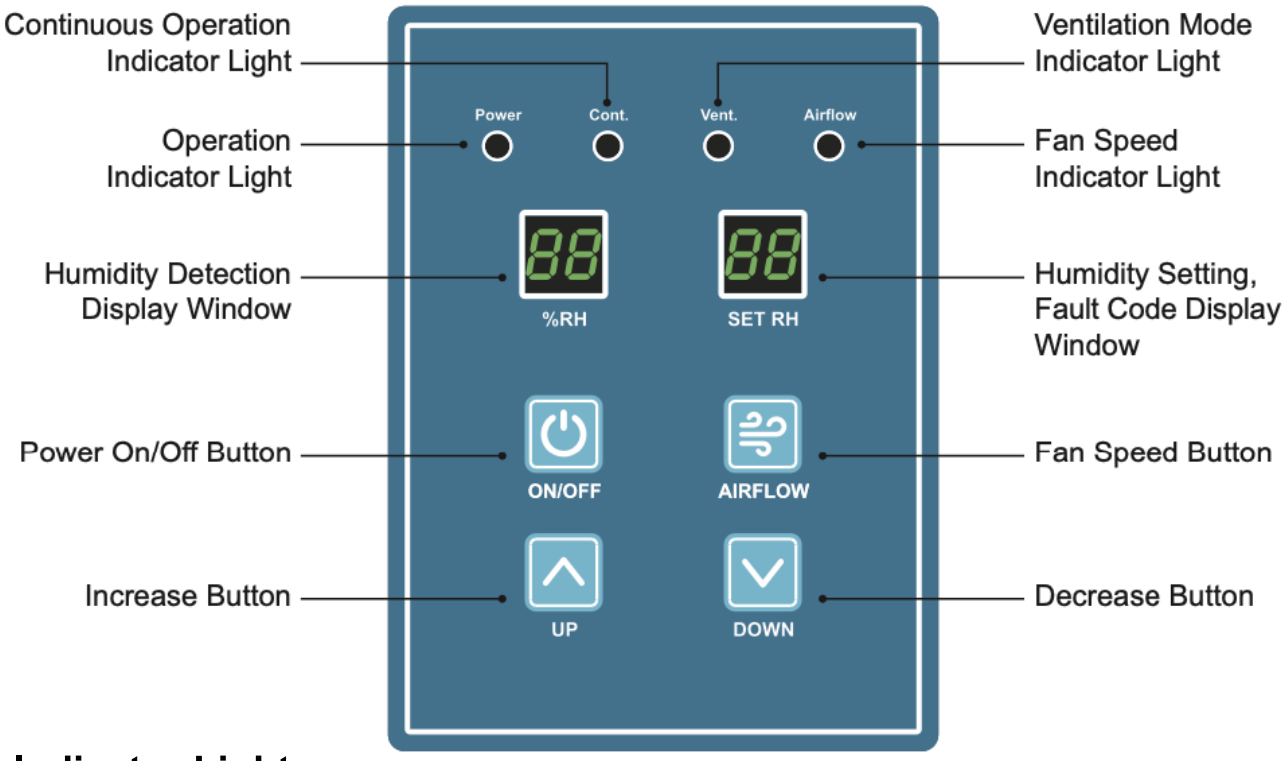


        i. Cut a piece of 3/4”OD PVC that is approx. 6” long.
        ii. Attach PVC + elbow to a 3/4”OD piece of PVC to drain. Keep the length of PVC as short as possible.



        iii. Insert the open end of the dehumidifier drain tube into a 6” piece of PVC so that it does not extend into elbow fitting.For a proper flow, a minimum downward slope of 1” per 10’ run is required.
        iv. Support the PVC tubing so that it maintains a smooth downward flow to drain.
3. **Remove power from cord holder. Plug unit into a dedicated 15 amp GFCI protected outlet.**

Using the Dehumidifier Display



Indicator Lights

1. **Power Indicator Light**
    a. This light indicates what status the dehumidifier is in. The light will be green.
    b. When the dehumidifier is running, the light is constantly on.
    c. When in defrost mode, the light will flash rapidly.
    d. When in standby mode (humidity in space is UNDER setpoint, so no need to run), the light will flash slowly.
    e. When the dehumidifier is off, the light will also be off.
2. **Cont. Indicator Light**
    a. This light turns green when the dehumidifier is in continuous operation mode. The light stays on until continuous mode is turned off.
3. **Vent. Indicator Light**
    a. This light turns green when the unit is in ventilation mode. The light stays on until ventilation mode is turned off.
4. **Airflow Indicator Light**
    a. This light indicates the speed of the fan. A green light indicates low speed, while a red light indicates high speed.
    b. Using low fan speed (green light) will allow the dehumidifier to be extra quiet.

Display Windows

1. **%RH Display Window**
    a. This window displays the real time humidity level. While the dehumidifier is running, the detected relative humidity will be shown.
2. **SET RH Display Window**
    a. This window displays the target relative humidity level, error codes, and mode codes.
    b. While adjusting your target humidity level, you will see the numbers change on this screen. During adjustment, the numbers will flash. Once a level is chosen, wait 3 seconds and the display will stop flashing.
    c. When in ventilation or continuous mode, you will see Vt (ventilation) or CO (continuous) on the display screen.
    d. If there is an error code, it will display here. For example, it might show E1.

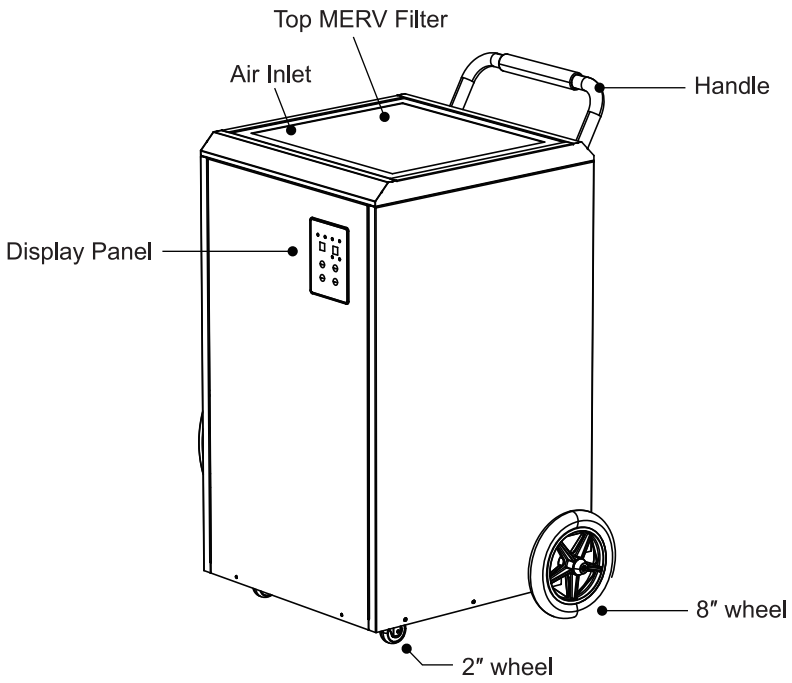
Button Functions

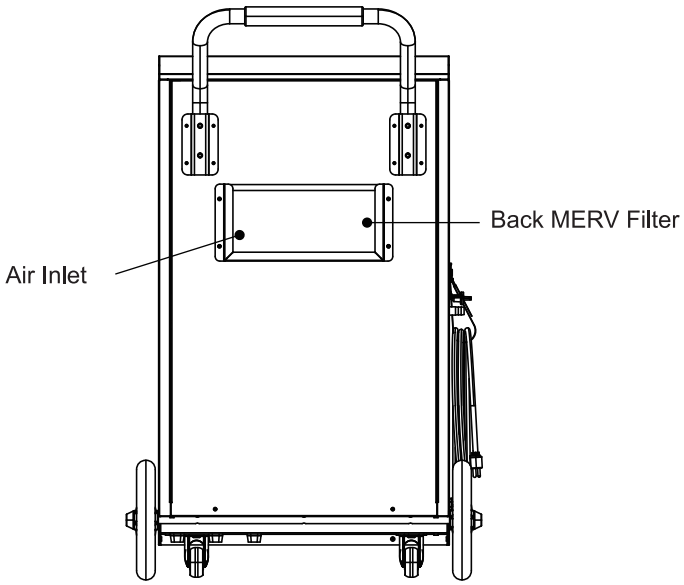
1. **ON/OFF Button**
    a. Press this button to turn the unit on or off.
2. **Airflow Button**
    a. Press this button to adjust the fan speed between low speed and high speed.
    b. Low fan speed is useful if you would like the dehumidifier to be extra quiet.
3. **Increase and Decrease Buttons**
    a. Use these buttons to adjust the target relative humidity level.
4. **Ambient Temperature**
    a. If you would like to view the ambient temperature: press and hold Increase Button + Airflow Button for 3 seconds.
    b. The Set RH window will flash the ambient temperature for 3 seconds, before automatically reverting back to target relative humidity level.
5. **Coil Temperature**
    a. If you would like to view the coil temperature: press and hold Increase Button + Decrease Button for 3 seconds.
    b. The Set RH window will flash the coil temperature for 3 seconds, before automatically reverting back to target relative humidity level.
6. **Ventilation Mode**
    a. If you would like to enter ventilation mode: press and hold On/Off Button + Airflow button for 3 seconds.
    b. While in ventilation mode, the Set RH window will display Vt.
    c. Repeat this operation to exit ventilation mode.
    d. During ventilation mode, only the fan of the dehumidifier will operate. YOU WILL NOT BE DEHUMIDIFYING.

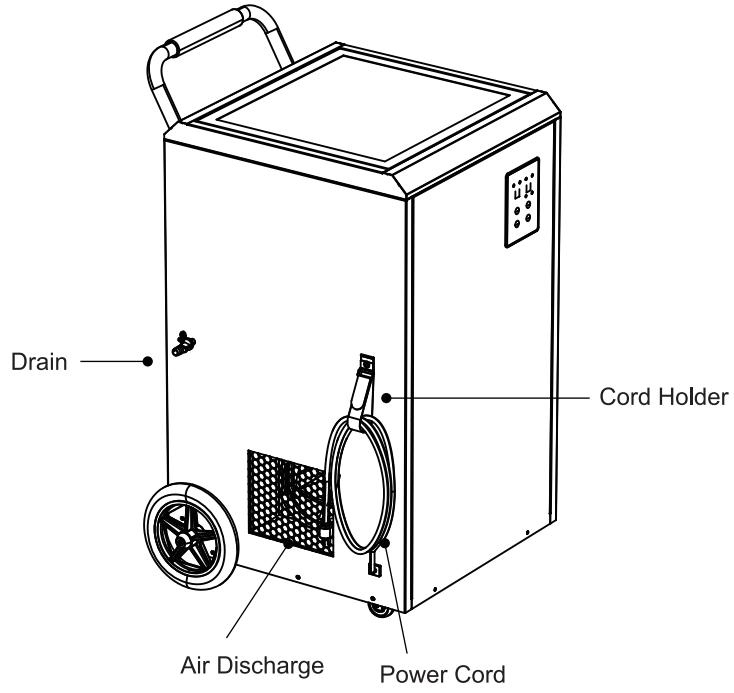
Dehumidifier Features

1. **Auto Restart**
    a. If the dehumidifier loses power while running, it will automatically resume running when the power comes back on.
    b. The mode and setpoint will be the same as prior to the outage.
    c. Keep in mind that there is a 3 minute compressor delay, so it will take 3 minutes for the unit to start operating.
2. **Defrost Function**
    a. The dehumidifier features auto defrost. This means that when the ambient temperature is too low and frost accumulates on the surface, auto defrost will begin.
    b. During the defrost process, power indicator light on the display panel will flash rapidly.
    c. Once defrosting is complete, the dehumidifier will automatically resume it's previous setting.

Unit Diagram







Maintenance

Warning: Always unplug the dehumidifier before performing any maintenance.

Cleaning the Dehumidifier Body

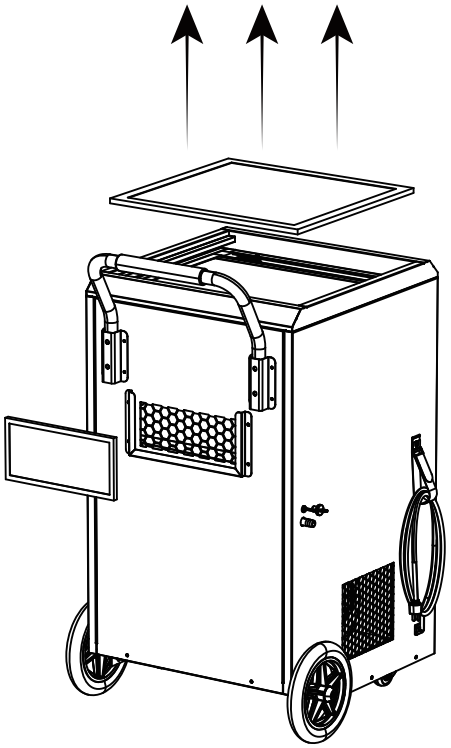
Use a soft damp cloth to clean the exterior of the unit. Do not use any soap or solvents

Coil Maintenance

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

Filter Maintenance

Both filters are washable (top filter and back filter).Vacuum or wash with warm water (no soap). Replace as needed.



Storage

If you're going to be storing the dehumidifier for an extended period of time, be sure to dry it out completely.

1. Use ventilation mode (see Using the Dehumidifier Display section for more details) for at least 2 hours to dry out the coils.
2. Loop the power cord and properly store the drainage hose.
3. Place in a clean, dry location.

Troubleshooting

Symptom	Cause	Solution
Display is Blank	Poor Connection	Make sure power cord is plugged in
	Power Outage	Reset power
No Airflow	Filter is Dirty	Clean the filter(s)
	Air Inlet or Outlet is Blocked	Clear the blockage
E1 Error Code	Humidity Sensor or Communication Error	Check that the sensor wire is connected at both ends. If no issue, the sensor may be faulty
LO Error Code	Room Temperature is below 33°F	Increase room temperature so it's within operating range. If issue persists, check the sensor
HI Error Code	Room Temperature is above 105 °F	Decrease the room temperature so it's within operating range. If issue persists, check the sensor
Tripped GFCI Outlet or Breaker	Not a Dedicated Circuit	Identify all sources connected to outlet and confirm source of trip. If it is dehumidifier, contact technical support. If not, move dehumidifier to dedicated circuit for future use.
	Defective GFCI	Replace outlet
	Dirt, Dust, or Moisture on Outlet	Clean or replace outlet
	Lightning or External Electrical Surge	Reset or replace breaker/GFCI, as needed
Note: Dehumidifier will not function until error code is cleared.		

Error Code: DP - occurs when the dew point is below 40°F. Unit will automatically resume once dew point = greater than 40°F.

Spare Parts

All Models	
W-100	Wired Remote Control Assembly
X-101	Remote Monitor System
X-102	External Pump
Stealth 115	
S-110	Top MERV Filter
S-111	Back MERV Filter

Warranty

All warranty benefits apply to the original owner only. Warranty cannot be transferred or assigned.

5 Years (From Date of Purchase): Seaira Global warrants the dehumidifier will operate free of defects in workmanship and materials. At its discretion, Seaira Global will repair or replace any malfunctioning components, free of charge (excluding transportation costs)

Customer Responsibilities: In order to take advantage of the warranty service, the customer must do the following:

1. Customer must provide normal care and maintenance (including, but not limited to cleaning filters, coils and pumps)

2. Removal and re-installation of unit is the sole responsibility of owner.

3. If customer cannot return unit to Seaira Global, all costs associated with shipment are borne by the customer. In addition, all ancillary charges related to shipments, including but not limited to palletizing, wrapping, labeling, and pickup are associated with customer.

4. If shipped, customer is responsible for all risk of loss or damage.

Warranty Procedure:

1. Customer must mail in warranty registration card to Seaira Global. If no card is submitted, warranty period will begin the day the shipment left the warehouse.

2. If warranty service is necessary, customer must contact Seaira Global Tech Support by phone 910-660-0962 to receive a Return Authorization (RA) number.

3. Once an RA has been issued, it is the customer's job to bring the unit to Seaira Global. If this is not an option, shipping will be arranged to bring the unit back to the Seaira warehouse (at the expense of the customer).

4. After the unit has been received by Seaira Global, an initial inspection will be completed, if it is determined to be an invalid warranty claim (see exclusions below), unit will only be completed after receiving payment from customer for all associated costs.

5. If unit is defective, the necessary parts will be repaired or replaced and the unit will be available for pickup at Seaira Global or returned via shipment (at customer's expense). Keep in mind that work is only done during normal working hours. After being repaired, all units are required to go through a rigorous testing process prior to being returned to customer.

6. Once a part is repaired and the dehumidifier is returned, the original warranty period still applies (no extensions).

EXCLUSIONS:

DAMAGE DUE TO THE FOLLOWING IS NOT covered under warranty

1. **Acts of Nature- Including but not limited to:**

    - **Flooding**
    - **Fire**
    - **Water damage**
    - **Hurricane/storm damage**

2. **Improper Usage - Including but not limited to:**

    - **Pool/spa/tub applications**
    - **Misuse, abuse, or tampering whether intentional or accidental**
    - **Improper installation or design**
    - **Improper voltage**
    - **Lack of normal care**
    - **Failure to follow instructions**

3. **Corrosion**
4. **Freezing**
5. **Any additional costs due to changes in laws or building codes**
6. **Freight charges**
7. **Any costs due to lost profit or delay**
8. **Damage to property**
9. **Cause beyond control**
10. **Consumable parts, including but not limited to:**

    - **Filters**
    - **Batteries**
    - **Power cords**
    - **Valves**
    - **Switches**
    - **Rubber parts**

11. **Applicable Law and Venue**

All aspects of this agreement shall be interpreted by and under the laws of the state of North Carolina. Any litigation, enforcement of arbitration, or litigation related to this agreement shall be brought in the appropriate court in New Hanover County, North Carolina.

12. **Direct, Indirect, Collateral or Inconsequential Damages of Any Kind**

The warranties and liabilities set forth are in lieu of all other warranties expressed or implied, in law or in fact, including implied warranties of merchantability and fitness for a particular purpose. Seaira Global's total liability, regardless of nature of claim shall not exceed original purchase price of the product. If a product or component is replaced while under warranty, the applicable warranty period shall not be extended beyond the original warranty time period.

The foregoing shall constitute the total liability of seller in the case of defective performance of all or any of the equipment or services provided to Buyer. Buyer agrees to accept and hereby accepts the foregoing as the sole and exclusive remedy for any breach or alleged breach of warranty by Seller.

Any dishonesty or fraud in connection with Seaira Global warranty thoroughly voids all warranty policies. Seaira Global expressly reserves the right to pursue legal action in the event of dishonesty, fraud, or attempted fraud.