PUREAIRO
WCD 120C

Installation & Operations Manual

PureAiro

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PRODUCT INTRODUCE

The WCD 120C dehumidifier is able to extract 120 pints of water at a
standard rating condition of 30℃ / 80%RH in a space, not more than 3,300 sq.ft.
This unit will only use up 6.17 amps / 220V while controlling the humidity levels. it
is built with high capacity, high energy use efficiency and is environmentally
friendly.
The WCD 120C dehumidifier is built for use in a mid-size commercial set
up, however since it is built small and compact,
this unit can be easily moved into any space that requires dehumidification
using already fitted heavy duty carrier handles.
This design also allows the unit to easily hang overhead.
The WCD 120C dehumidifier is one of most purchased commercial space
dehumidifiers for its quiet operation abilities. This unit will produce sounds
below 60DBA, hence your workplace will remain comfortable for you, your
employees and most importantly your customers.

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IMPORTANT NOTES

- Always connect your dehumidifier using a grounded, dedicated electrical connection that is GFCI protected with at least 15 amp capacity.

- The use of any other type of wiring will void your warranty.

- Install dehumidifier according to all applicable local, state, and national codes.

- Be sure to follow your GFCI maintenance instructions.you will typically need to test the operation of the trip circuit monthly.

- For ease of testing and operation, it may be helpful to put the test switch and indicator lights in a convenient location.

- Your dehumidifier should only be repaired by a qualified technician.

- Do not insert objects or your fingers into the inlet or discharge.

- Do not use water to clean the exterior of the dehumidifier. To clean unit, unplug from power, then use a damp cloth to wipe the exterior.

- Do not stand on dehumidifier or place objects on it.

- Unless otherwise noted, all maintenance should be done with the unit power off.

WARRANTY REGISTRATION

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

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

MODEL NUMBER: PureAiro WCD 120C

SERIAL NUMBER: _____   **DATE OF PURCHASE:** _____

For additional questions concerning your dehumidifier:

- Contact your installing contractor
- Contact Alorair Solutions : sales@pureairo.com / 44(20) 81247965

SPECIFICATIONS

CAPACITY@30℃ / 80%RH:	120 L
AIRFLOW	350 CFM
OPERATING TEMP. RANGE	3℃ - 40℃
OPERATING RELATIVE HUMIDITY RANGE	36% - 90%
COP	3.5 L/KWh
REFRIGERANT	R410A
AMPERAGE USAGE	6 Amps
POWER SUPPLY	230V / 50Hz / Single Phase
OUTLET REQUIREMENT	15 Amp
SOUND LEVEL	60 dBa
DIMENSIONS LXWXH	600 x 360 x 430mm

HOW IT WORKS

PureAiro dehumidifiers use an integrated humidistat to monitor the conditioned space. When the relative humidity goes above the selected setpoint, the dehumidifier will energize. Air is then drawn across an evaporator coil, which is cooler than the dew point of air. This means moisture will condense out of the air.The air is then reheated through the condenser coil and distributed back into the room.

INSTALLATION REQUIREMENTS

- The area where the dehumidifier is located should be sealed with a vapor barrier.
- If the unit is installed in a crawl space, all vents should be sealed.
- For proper ventilation, neither the inlet or discharge should be positioned against a wall. The inlet needs a minimum of 304.8mm clearance and the discharge requires a minimum of 914.4mm clearance.
- For the best air diffusion, install the unit so that a side panel faces the wall.
- PureAiro dehumidifiers are only intended for operation when the unit is upright and level with the feet on the ground (unless using a PureAiro Hanging Kit).

INSTALLATION

1 Place dehumidifier on a level surface.
- Do not place unit directly on vapor barrier. For example, use blocks or pavers to create a level surface.
- If unit has been turned or flipped so that the compressor did not remain upright, place the unit on a level surface and wait a minimum of 2 hours before proceeding.

2 Set up the drain line
- Remove the compression nut and slide it over the end of the hose to be attached to unit.
- Slide the side of hose with compression nut over the insert on the compression fitting completely.
- Tighten compression nut.

3 Plug dehumidifier into grounded 15 amp circuit.

KEY FUNCTIONS

1 Power Key
- Use this button to turn the dehumidifier on and off.
- Press once to turn machine on. You will hear two beeps and the light will illuminate green (solid or flashing depending on mode).
- Press the power button a second time and you will hear one beep as the machine shuts down. Note that there is a 1 minute fan delay.

2 Arrow Buttons
- Use the up and down arrow buttons to set the desired humidity setpoint on the display screen.
- The setpoint can be any number between 35%-90%. When the indoor humidity is higher than the setpoint, the unit will operate.
- Keep in mind that the displayed humidity levels are approximate (+/-5%)

3 Continuous Mode
- To set the unit to run continuously regardless of humidity, simply use the down arrow key to set the humidity below 36%.
- The continuous light will illuminate green and the display will show "CO".
- To switch back to normal humidistat operation, use the arrow keys to move the setpoint above 36%.

4 Manual Drain Button
- If you need to store or move your dehumidifier, press the "Drain" button to remove water from the integral pump's reservoir.

5 Pump Trouble Warning
- If the pump reservoir level gets too high, the water sensor will activate to prevent overflow.
- When this occurs, the compressor will stop automatically, and the display will show "E4". After a 1 minute delay, the fan motor will turn off and the dehumidifier will not operate until the problem has been resolved.
- Check to verify that the pump is functioning, then unplug the unit for. two minutes to reset the error code.

6 Auxillary Terminals A5/A6
- The A5/A6 on the terminal strip can be used as a safety switch for an external float switch.
- It should be set to N/O (normally open) at the accessory float switch.
- If an E4 error occurs immediately , switch the wiring to N/C (normally closed) on external switch. You may need to unplug the unit to reset the error code.

INDICATOR LIGHTS

1 Humidity Display Screen

• The display screen has two functions:
  1. When the unit is powered on, it shows the humidity of the space
  2. When setting the desired humidity level, the screen will show the set point.
  After a brief delay, it will revert to current humidity of the space.

2 Power Indicator Light

• This light indicates that the unit is properly powered on and ready to operate.
• Always make sure the unit is "off" prior to performing any service, unless otherwise indicated.
• If the humidity is above the setpoint, the light will be solid green and the machine will operate.
• If the humidity is below the setpoint, the unit will be in standby mode and the light will be flashing.

3 Continuous Mode/ Auto Defrost Light

• When the light illuminates green, it indicates that the dehumidifier is set to continuous operation mode.
• When the light illuminates red, it means the unit is in auto defrost mode and clearing the evaporator coils of any ice buildup.

4 Compressor Light

• When the light illuminates red, it indicates the compressor has been initiated but is currently warming up.
• Once the light switches to green, it means the compressor is currently in working status.

REMOTE CONTROL INSTRUCTIONS

PureAiro Dehumidifiers can be controlled using an optional remote accessory. The remote connects to your dehumidifier via a 25' CAT 5 cable, with the integrated sensor giving you multiple options for monitoring surrounding conditions.

Example #1- Install the dehumidifier in the laundry room and duct it into the living room. Mount the remote in the living room and use the remote sensor.

Example #2- Install the dehumidifier in your crawl space with the remote mounted in your garage.

NOTE: The symbols indicated below only show when the remote is powered on.

1 ON/OFF (POWER)BUTTON
Press the on/off button and the machine will start running (one beep). Press the button again to the turn the machine off.

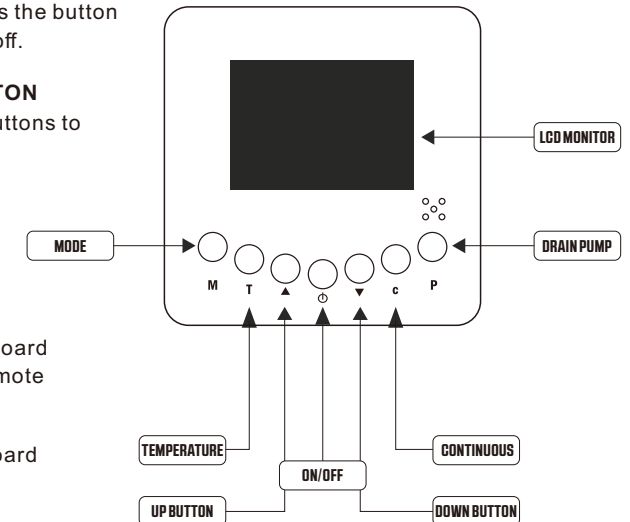**2 UP BUTTON / DOWN BUTTON**
Use the Up and Down arrow buttons to adjust the humidity level.

3 MODE
Use the Mode button to switch between dehumidification and a ducted application.

The ⊙ symbol on the display board indicates the sensor on the remote control is being utilized.

The ⬧ symbol on the display board indicates the sensor on the dehumidifier is being utilized.

4 TEMPERATURE
The T button changes the temperature reading on your remote. The remote comes from the factory in Celsius. Press this button once to switch to Fahrenheit.

5 CONTINUOUS
Press this button to switch the unit into continuous mode. "CONT." will appear on the display screen.

6 DRAIN PUMP
Use this button if the unit will not be used for an extended period of time. This button will remove water from the pump reservoir.

REMOTE CONTROL INSTRUCTIONS

1 START THE MACHINE

Press the power key to turn the machine on.

2 ADJUST THE SETTINGS

Use the up and down arrow keys to adjust your desired setpoint (typically 50-55%).

3 STOP THE MACHINE

Press the power key again and the machine will stop. Note the fan will continue to operate for 1 minute after the unit has turned off.
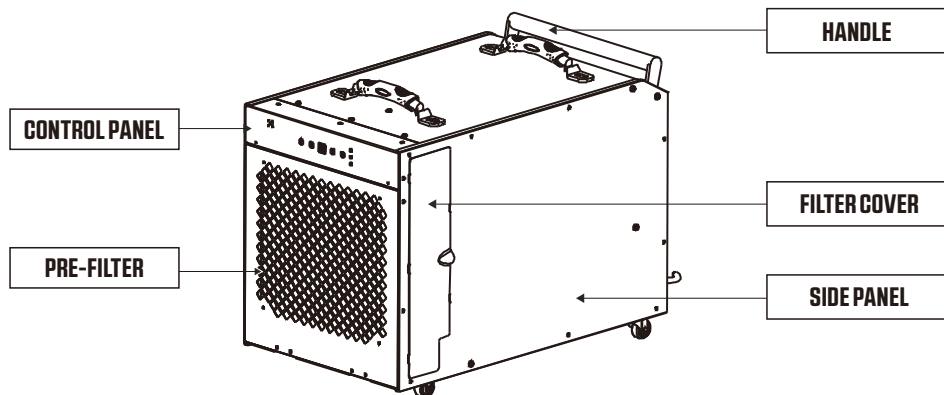DO NOT DISCONNECT THE POWER CORD TO FORCE THE UNIT TO STOP.
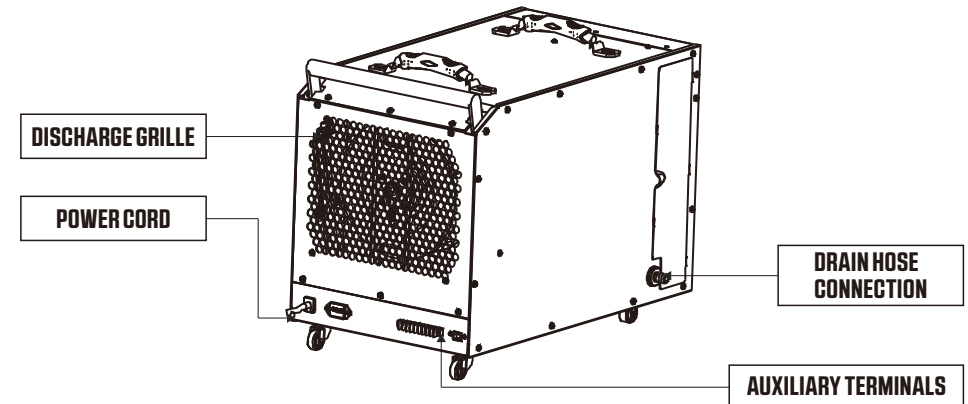
4 WATER DRAINAGE

- The WCD 120C has an integrated condensate pump. During normal operation, the WCD 120C will automatically drain as required.

- If you would like to store or move your unit, press the drain button to drain water from the pump reservoir. The drain will operate for 15 seconds each time the button is pushed. It may be necessary to push the button more than once.

Back View

DISCHARGE GRILLE

POWER CORD

DRAIN HOSE CONNECTION

AUXILIARY TERMINALS

UNIT DIAGRAM

Front View

CONTROL PANEL

PRE-FILTER

HANDLE

FILTER COVER

SIDE PANEL

MAINTENANCE

For more detailed instructions, visit www.PureAiro.com

WARNING Always unplug the unit before doing any maintenance.

CLEANING THE MACHINE BODY

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

COIL MAINTENANCE

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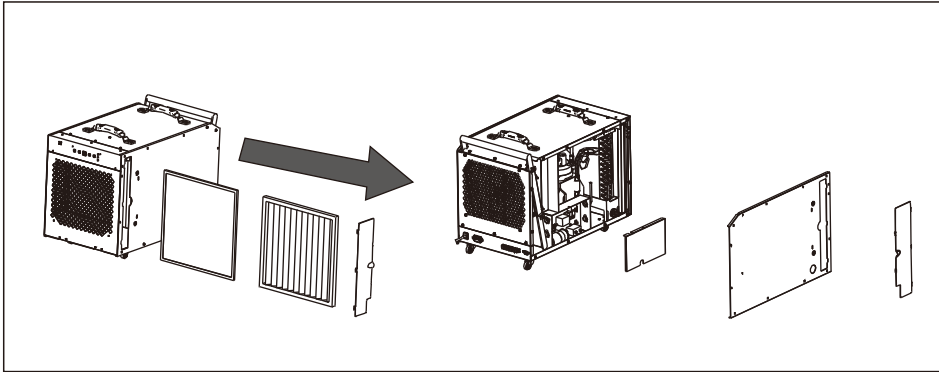
CLEANING THE FILTER

1. Unplug the unit.
2. For PreFilter:
   a. Remove prefilter from inlet of machine.
   b. Vacuum or wash with warm water (no soap).
3. For MERV-10/HEPA/Carbon Filters:
   a. Replace as necessary- we recommend checking the filters at least 1x/year

ELECTRICAL ACCESS

- Unscrew the 13 screws on the side panel.
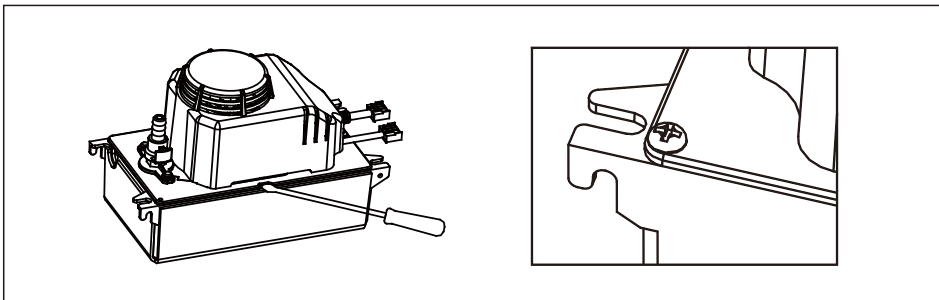- Remove the screws on the control board cover.

PUMP MAINTENANCE

Your PureAiro WCD 120C is equipped with an integral condensate pump designed to pump water from the dehumidifier out to the desired drain.The pump requires routine maintenance that is not covered by the warranty.

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 assembly, and discharge tubing.

REMOVING THE PUMP

1. Remove the 13 screws on the side panel and set panel aside.
2. Remove the screw holding the pump in place.
3. Undo the 3 pump electrical quick connects and 1 drain quick connect.
4. Insert a flat head screwdriver into the notch on the side of the pump. This will allow you to gently lift the pump off its reservoir (the reservoir remains attached to the unit).

BASIC PUMP CLEANING

Complete about once per year, depending on environment

1. Remove filter(s) from inlet of unit. Remove screws (2/side) on filter door to access drain tray. Press the drain button to drain the reservoir.Disconnect power to the dehumidifier.
2. Disconnect power to the dehumidifier.
3. Mix a 473 ml solution of bleach (30 ml bleach + 443.6 ml water) OR vinegar (118 ml white vinegar + 354.9 ml water).
4. Pour the cleaning solution into the drain tray at the base of the coils. If any cleaning solution gets on the coils, flush with water.
5. Allow solution to soak for 15 minutes.
6. Reconnect the dehumidifier to power.
7. Fill the reservoir with water (473-946 ml) and flush/cycle the pump at least 2x.
8. If the drain line is still filled with debris, repeat process. If drain line still does not appear clean, move on to Advanced Cleaning.

ADVANCED PUMP CLEANING

Complete as needed

1. Press the drain button to drain the water from the reservoir (a wet-dry vacuum or towels can be used to remove any remaining water).
2. Unplug the dehumidifier and remove the cover so you have access to the pump.
3. Remove the pump head from the reservoir by unscrewing the screw. Wipe reservoir clean with a paper towel.
4. Reassemble pump.
5. Mix a 16 ounce solution of bleach (30 ml bleach + 443.6 ml water) OR vinegar (118 ml white vinegar + 355 ml water).
6. Pour the cleaning solution into the drain tray at the base of the coils. If any cleaning solution gets on the coils, flush with water.
7. Allow solution to soak for 15 minutes.
8. Reconnect the dehumidifier to power.
9. Fill the reservoir with water (473-946 ml) and flush/cycle the pump at least 2x.

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. Complete steps 1-3 in Advanced Pump Cleaning to clean out the pump reservoir.
3. Wrap and secure the power cord.
4. Cover the filter mesh.
5. Store in a clean, dry space.

DUCTED APPLICATIONS

Ducting the dehumidifier allows the unit to be in one room while conditioning an adjacent room. Both the inlet/return grille and the supply grille are designed for 254mm flex ducting.
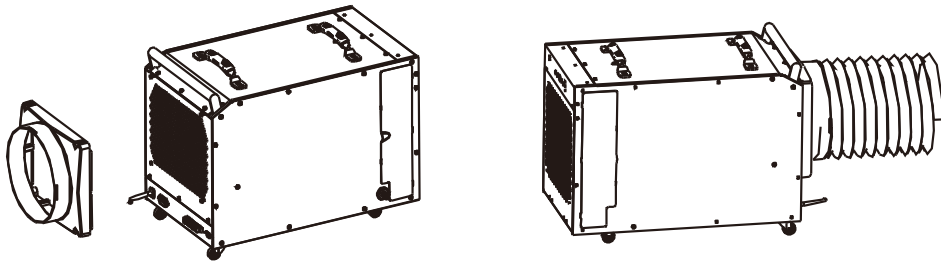
DUCTING INSTALLATION NOTES
- Be sure to secure the ducting with tie wrap.
- Maximum total length of duct run = 10'
- Inlet and outlet duct adapters are optional accessories

DUCT ADAPTER INSTALLATION
- Screw in the 4 screws on each duct adapter.

FLEX DUCT INSTALLATION
- Slide ducting over adapter and secure with tie wrap or clamps

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 a re 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 3℃	Increase the room temperature so it is within operating range (above 3℃). If error still displays, check sensor.
Error Code: HI	Room Temperature is above 40℃	Decrease the room temperature so it is within operating range (below 40℃). If error still displays, check the sensor
Tripped GFCI Outlet or Breaker	Nota 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 Outlet	Replace Outlet
	Dirt, Dust, or Moisture on Outlet	Clean or Replace Outlet as necessary
	Lightning or Externa Electrical Surge	Reset or Replace Breaker/GFCI, as necessary
	Possible Dehumidifier Issue	If none of above options work, contact technical support

LIMITED WARRANTY

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

1 YEAR (FROM DATE OF PURCHASE): PureAiro warrants the dehumidifier will operate free of defects in workmanship and materials. At it's discretion, PureAiro will repair or replace any malfunctioning components, free of charge (excluding transportation costs)

3 YEARS (FROM DATE OF PURCHASE): PureAiro warrants the refrigeration circuit (compressor, condenser and evaporator) will operate free of defects in material or workmanship. At it's discretion, PureAiro will replace defective parts,including factory labor or refrigerant. This does not include transportation.

5 YEARS (FROM DATE OF PURCHASE): PureAiro warrants the compressor, condenser, and evaporator will operate free of any defects in material or workmanship. At it's discretion, PureAiro will repair or replace the defective parts. This does not include labor, transportation, or refrigerant.

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 certified repair center, all costs associated with freight shipment are borne by the customer. In addition, all duties related to freight 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.

PUREAIRO WARRANTY STEPS:

1. Once receive the goods customers must log in www.pureairo.com to fill out the warranty Registration form and submit to PureAiro company. We will receive your purchasing and installation information and save it.
   If no warranty registration is sent to us, warranty period will begin the day the shipment left the warehouse. Please be sure to record serial # and date of installation. You will need this information to receive the RA number.

2. If warranty service is necessary, customers must contact PureAiro Tech Support by sales@pureairo.com or local technical service phone to receive a Return Authorization (RA number). Once an RA has been issued, customers should bring the unit to a certified repair center. PureAiro wil arrange the shipping to bring the unit back to the Alorair warehouse (at the expense of the customers) if customers are not available.

3. After the unit has been received by PureAiro (whether at a repair center or the warehouse), PureAiro will have an initial inspection. If it is determined to be invalid warranty claim (see exclusions below), customers have to pay for all associated repair costs and shipping costs for units repair.

4. Customers can pick up the unit after repair at their own expense for shipping. Units will have a rigorous testing before sending it back to customers.

5. If the unit can no longer be fixed , and it is in the warranty period and determined to be valid claim, we will ship the customer a new unit within the same year warranty from the date of replacement.

6. After parts are repaired or replaced by PureAiro, the original warranty period continues to apply until it meets its deadline.No extensions to the original warranty period.

LIMITED WARRANTY EXCLUSIONS

EXCLUSIONS:

DAMAGE DUE TO THE FOLL OWING 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 INSTALL ATION 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. **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, INCL UDING IMPL IED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE. PureAiro'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 PureAiro warranty thoroughly voids all warranty policies. PureAiro expressly reserves the right to pursue legal action in the event of dishonesty, fraud, or attempted fraud.