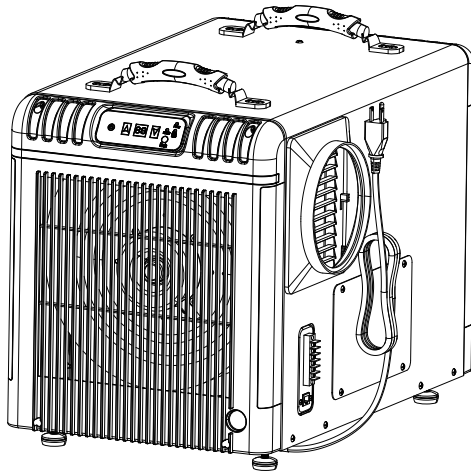


# AirWerx 90

## Installation & Operations Manual



Patented



Tel: 1-888-641-8862  
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E-mail: [sales@baseaire.com](mailto:sales@baseaire.com)

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## ■ Warranty Registration

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Congratulations on purchasing a new AirWerx 90 Dehumidifier. Your new dehumidifier comes with an extensive warranty plan. To register, simply fill in and return the warranty card provided in your dehumidifier box.

Be sure to note your dehumidifier serial number as you will need it for registration.

## ■ Safety Notes

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- The AirWerx Series Dehumidifier must always be connected using a grounded electrical connection (as required for all electrical appliances). If non-grounded wiring is used, all liability reverts to the owner and the warranty is voided.
- AirWerx Dehumidifiers should only be maintained and repaired by a qualified technician.
- AirWerx Dehumidifiers are only intended for operation when oriented with the unit sitting on its feet and level. Operating the unit in any other orientation could allow water to flood electrical components.
- Always unplug dehumidifier before moving.
- If there is a chance that water flooded the dehumidifier, it should be opened and allowed to dry thoroughly before reconnecting to electrical power and restarting.
- To ensure proper operation, neither the inlet nor discharge should be positioned against a wall. The inlet requires a minimum of 6' clearance and the discharge requires a minimum of 6' clearance.
- For better use of the dehumidifier, both air inlet and air outlet should be facing the open area of the space.
- Do not insert your fingers or any object into the inlet or discharge.
- All work on the dehumidifier should be done with the unit "off" and unplugged.
- Do not use water to clean the exterior. To clean unit, unplug from power, then use a damp cloth to wipe the exterior.
- Do not stand on the machine or use it as a device to hang clothes.

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## ■ Identification

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

**Model number:** AirWerx 90

**Serial Number:** \_\_\_\_\_

**Date of Purchase:** \_\_\_\_\_

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

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

## ■ Electrical Supply

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

Outlet Requirement: 3-Prong, GFCI

Circuit Protector: 15 Amp

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

To reduce the risk of injury:

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

## ■ Principle of Operation

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The AirWerx Series Dehumidifier utilizes its integral humidistat to monitor the conditioned space. When the relative humidity goes above the selected set point, the dehumidifier will energize. Air is 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

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The area to be controlled should be sealed with a vapor barrier. If the unit is installed in a crawlspace, all vents should be sealed.

**⚠ WARNING:** Do not install your dehumidifier in a corrosive environment. Some liquid vapor barriers dry via "solvent evaporation". Always make sure that barrier is completely dry and area is thoroughly ventilated before installing dehumidifier.



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### Step #1: Place dehumidifier on a level surface.

If the unit is handled in such a manner that the compressor did not remain in the upright position, you will need to place it on a level surface and wait a minimum of 2 hours before turning the unit "on".

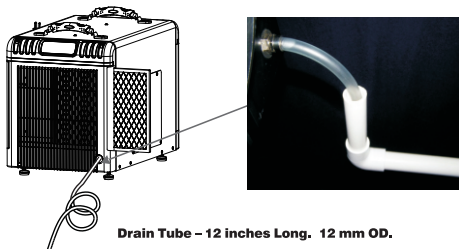
NOTE: Do not place directly on vapor barrier. Elevation is required to allow the condensate water to drain via gravity.

### Step #2: Set Up Drain Line

The drain line should be routed to a suitable drain on the outside. It must flow down to the drain without any loops, dips, or valleys.

#### Recommended Drain Option-Transition to PVC Pipe

1. Cut a piece of 3/4" OD PVC that is approx. 6" long.
2. Insert PVC into a 3/4" elbow, then attach to a 3/4" OD length of PVC to drain.  
(Note: Keep the length of PVC drain pipe to a minimum).
3. Insert the open end of the tubing into the 3/4" pipe so that it does not extend into the elbow fitting. For proper flow, a minimum downward slope of 1" per 10' run is required. ( Note: If a proper downward angle is not possible, then it is recommended to use an AirWerx 90X which includes an integrated pump or utilize an external condensate pump).
4. Support the PVC tubing so that it maintains a smooth downward flow to drain.
5. ***Always test the drain before leaving the installation area.***

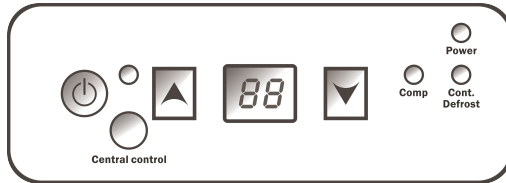


### Step #3: Plug unit into 15 amp grounded circuit.


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# ■ Key Functions


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## 1. Power Key

- Use this button to turn the dehumidifier on and off. Press once to turn the machine on. You will hear one beep and the  light will illuminate green. Press the power button a second time and you will hear one beep as the machine shuts down. Note that there is a one minute fan delay on shutdown.

## 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 36-90%. Creating a setpoint means that when the indoor humidity is lower than the set point, the machine will stop automatically. Conversely, when the indoor humidity is higher than the set level, the unit will operate.  
**NOTE: The humidity levels displayed are approximate only (+/-5%)**

## 3. Continuous Mode

- To switch into continuous mode, set the humidity below 36%. At this point the Cont. light should illuminate green on the display board to indicate you have successfully switched to continuous mode. The display screen will show "CO".
- When set to continuous, the dehumidifier will run constantly, regardless of the humidity level. To stop the dehumidifier from running, turn the unit off or switch back to normal humidistat operation. To switch back to normal humidistat operation, simply move the setpoint above 36%.

## 4. Central Control

- This mode is not applicable on the AirWerx 90.
- Central Control light should off at all times when not connected to the AC.

## 5. Auxillary Terminals A5/A6

- The A5/A6 on the terminal strip can be used as a safety switch for external condensate pumps. It should be set to N/O (normally open) at the dehumidifier. If an E4 error codes, switch the wiring to N/C (normally closed).

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# Indicator Lights

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## 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. While setting the desired humidity level, the screen will show the set humidity. After a brief delay, the display will revert to the current humidity level.

## 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.

## 3. Continuous Mode / Auto Defrost Light

When this light illuminates green, it indicates that the dehumidifier is set to continuous operation mode.

When the light glows red, it means the unit is in auto defrost mode and clearing the evaporator coil of any ice buildup.

## 4. Compressor Light

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

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# Remote Control Instructions

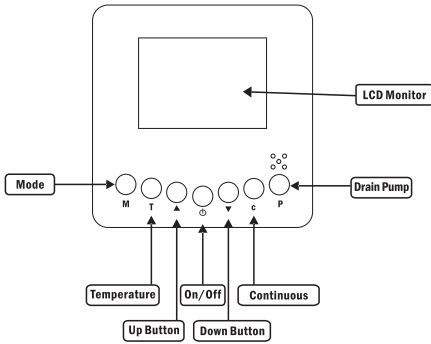
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AirWerx Dehumidifiers can be controlled using an optional remote accessory. The AirWerx Remote Control connects to your Airwerx Series Dehumidifier via a 25' CAT 5 cable. The remote control contains an integrated sensor which gives you multiple options for remotely controlling your unit, in addition to monitoring the conditions surrounding the dehumidifier.

One application for the remote control is to install the dehumidifier in one room with the conditioned air ducted into a second room that contains the remote. For example, the dehumidifier could be installed in a laundry room and ducted into a living room. The remote would then be mounted in the living room so the remote sensor can control the humidity and provide easy controls for the user.

Another useful application for the remote control is if the dehumidifier is in area that's difficult to access on a regular basis. For instance, if your dehumidifier is installed in your crawl space, the remote could be mounted in your living space or garage. This provides you with an easy way to monitor the dehumidifier.

*NOTE: Symbols indicated below will only appear when the dehumidifier is powered on.*



### 1. On/Off( Power) Button

Press the on/off button and the machine will start running (two beeps). 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 M

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 T

Press the temperature button to display the current temperature on the screen. Press the button again to turn off the display.

### 5. Continuous c

Press this button to switch the unit into continuous mode. **Cont.** will appear on the display to indicate continuous mode.

### 6. Drain Pump p

Pressing the drain pump button will remove water from the pump reservoir, so the unit can safely moved or stored.

NOTE: THIS FUNCTION IS ONLY AVAILABLE ON THE Airwerx 90X MODEL.

## Operating Instructions

### 1. Start the machine

Press the power key to turn the machine on.

### 2. Adjust Settings

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

### 3. Stop the Machine

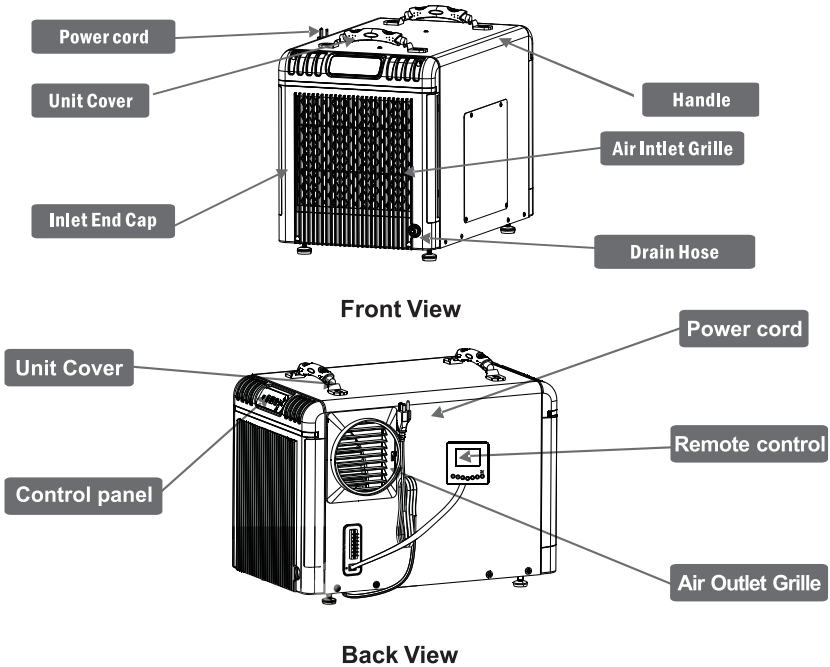
Press the power key again and the machine will stop. Note the fan will continue to operate for 1 minute after the unit has turned off.

NOTE: Do not disconnect the power cord to force the unit to stop. Always use the power button.

### 4. Water Drainage

During normal operation, the AirWerx 90 will automatically drain by the force of gravity. If you want to move or store the machine, wait at least 10 minutes to allow the machine to completely defrost, then lean unit gently towards drain to ensure that it is completely drained.

# Airwerx 90 Diagram



## Maintenance

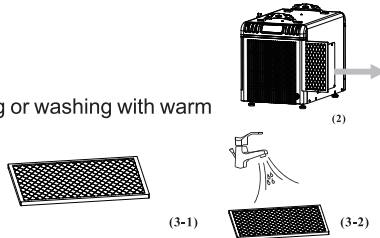
**⚠ WARNING:** Always unplug the unit before doing any maintenance.

### ► Cleaning the machine body

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

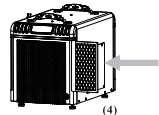
### ► Cleaning the filter

1. Unplug the unit.
2. Slide out the filter.
3. Clean the filter mesh by vacuuming or washing with warm water ( no soap or solvents).
4. Be sure filter is completely dry before restarting the unit.



### ► Coil Maintenance

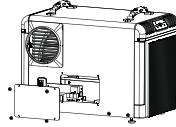
- Once per year, clean the coils with an approved coil cleaner.
- Coil cleaner should be a self-rinsing, foaming cleaner such as WEB® Coil Cleaner.



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## ► Electrical Access

- Unscrew the 4 screws on the side panel to access the control board.



## ■ Dehumidifier Storage

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

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

## ■ Ducted Applications

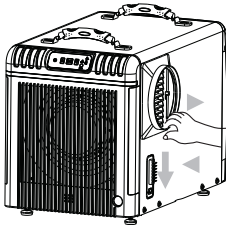
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Ducting the dehumidifier allows the unit to be in one room while conditioning an adjacent room. The supply grille is designed for 6" flex ducting. Be sure to secure the ducting with a tie wrap. Also, keep in mind that the supply ducting can be screwed into an adapter if necessary.

## Ducting Installation

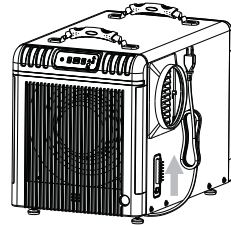
- Maximum length for ducting= 6'

Note: The supply duct adapter is standard on all units.



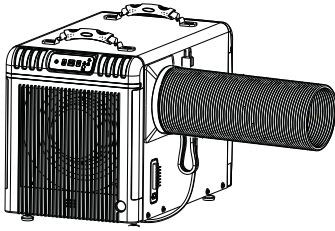
### **Removing Duct Adapter**

If it is necessary to remove the adapter, place hand at bottom of the adapter and use your fingers to pull out and down. This will remove the cover hooks from the machine.



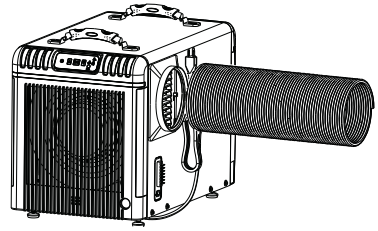
### **Installing Duct Adapter**

To install adapter, line duct up with holes on the side of unit push up from the base of the adapter.



### Flex Duct Installation

Rotate the flex duct counter-clockwise.



### Flex Duct Removal

Rotate flex duct clockwise or remove wire tie.

## Troubleshooting

Symptom	Cause	Solution
Machine Won't Run	Power Supply	Verify that there is power to the outlet and that the plug is properly installed in outlet.
	Room Temperature Over 105°F (Display HI) or Below 33°F (Display LO)	The unit is outside the operating temperature range. Modify the room conditions so the temperature is between 33°-105°F and operation will commence.
Low Air Flow	Air Filter is Clogged	Clean the filter mesh according to instructions listed in manual.
	Air Inlet or Outlet is Blocked.	Clear the blockage from inlet or outlet.
Loud Noise	Machine Is Not level	Move the dehumidifier to flat, firm ground.
	Filter Mesh is Blocked	Clean the filter mesh according to instructions listed in manual.
Trouble Code: E1	E1=Humidity Sensor Issues	Check to ensure that wire is connected at both ends. If no issues are visible, the sensor may be faulty.
Trouble Code: HI or LO	Room Temperature Over 105°F or Below 33°F ( Display LO)	The unit is outside the operating temperature range. Modify the room conditions so the temperature is between 33 – 105°F and operation will commence. If room conditions are within temperature range, replace the defective sensor.
E3 Error Code	Abnormal Coil Temperature	Contact Your Installer for Assistance

# AirWerx 90 Spare Parts

<b>All AirWerx Models-Parts</b>	
<b>Part#</b>	<b>Description</b>
A-100	Remote Control Package (cable+remote)
A-101	Remote Control
A-102	Remote Control Cable, 26'
A-103	Return Duct Collar Accessory
A-106	Duct Kit Assembly ( W-103+ W-100)
A-107	Flexible Supply Duct, 72"
A-108	Main Control Board
A-109	Display Board
A-110	RH/Temperature Sensor
<b>AirWerx 90-Parts</b>	
<b>Part#</b>	<b>Description</b>
A-900	Fan Motor
A-901	Complete Fan Assembly
A-902	Fan Capacitor
A-903	Compressor
A-904	Compressor Capacitor
A-905	Coil Assembly
A-906	Hot Gas Bypass Coil
A-907	Condensate Pump Assembly
A-908	RH/Temperature Sensor Cable
A-909	Display cable
A-910	CAT 5 Prot Internal Cable
A-913	Foot, adjustable
<b>AirWerx 90-Filters</b>	
<b>Part#</b>	<b>Description</b>
A-915	MERV-1 Filter



## Limited Warranty

This limited warranty starts from the date of purchase. BASEAIRE warrants to the original purchaser that this BASEAIRE 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 BASEAIRE authorized dealer and operated, installed, and maintained according to the instructions included in this user guide or furnished with the product. BaseAire 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 BASEAIRE at 888-641-8862 or sales@baseaire.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 BASEAIRE.

## Limited Warranty Exclusions

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

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

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

# Warranty Registration Card

Order Number: \_\_\_\_\_ Model: \_\_\_\_\_

Serial #: \_\_\_\_\_ Installer: \_\_\_\_\_ Installation date: \_\_\_\_\_

Name: \_\_\_\_\_ Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone #: \_\_\_\_\_ E-mail: \_\_\_\_\_

If you have any questions, please feel free to contact us at **888-641-8862** or visit [www.baseaire.com](http://www.baseaire.com)

Register your unit for warranty using this link:  
<https://www.baseaire.com/page/Warranty-and-warranty-registration>



Scan QR Code for Warranty Registration



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