

INSTALLATION & OWNER'S MANUAL

Model E080 & E100

80 & 100 PPD Professional-Grade, Whole-House Dehumidifiers



Product Info & Digital Manual

PLEASE LEAVE THIS MANUAL WITH THE DEHUMIDIFIER OWNER

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### WHOLE HOME DEHUMIDIFICATION

The AprilAire Dehumidifier controls the humidity level in your entire home. A powerful blower inside the dehumidifier draws air into the cabinet where it is filtered before having moisture removed. A sealed refrigeration system removes moisture by moving the air through a series of tubes and fins that are kept colder than the dew point of



the incoming air. The dew point is the temperature at which moisture in the air will condense, much like what occurs on the outside of a cold glass on a hot summer day. The condensed moisture drips into the dehumidifier drain pan to a drain tube routed to the nearest floor drain or condensate pump. After



the moisture is removed, the air moves through a second coil where it is reheated before being sent back into the home. The air leaving the dehumidifier will be warmer and drier than the air entering the dehumidifier.

You can reduce the amount of humidity that enters the home by closing windows, doors and fireplace flues when outdoor

humidity is high, and by drying clothes outside. Direct exhaust from kitchen vents and bath fans is the best means of controlling humidity due to cooking and showers/baths. The dehumidifier is not designed to prevent window condensation in winter. Use ventilation to lower indoor humidity levels in the winter.

### SPECIFICATIONS

	Model E080 and E080H			00, E100C, E100H
Unit Weight	63	lbs.	64 lbs.	
<b>Capacity</b> 80°F, 60% RH Conditions	80 pints per day @ 185 CFM			per day CFM
<b>Current Draw</b> 115 VAC, Single Phase, 60 Hz	4.8 A operating current 6.7 A operating current		0	
Dehumidifier Inlet Air Conditions	Dehumidification: 50°F–104°F, 40°F dew point minimum Ventilation: 40°F–140°F, 0% RH–99% RH (non-condensing)			
Filter	MERV 8, washable			
	External Static Pressure ("w.c.)	External StaticAirflowPressure (°w.c.)(CFM)("w.c.)		
Airflow	0.0	185	0.0	280
A	0.2	135	0.2	245
	0.4	85	0.4	210
	Installa adv	tion not ised	0.6	175

**NOTE:** Rated capacity and current draw measured at 80°F/60% RH inlet conditions at 0.0 external static pressure.

### SAFETY INSTRUCTIONS

### **WARNING**

#### ATTENTION INSTALLER:

- Read this manual before installing. Improper installation or maintenance may cause property damage or injury. It is recommended that installation, service, and maintenance be performed by a trained service technician. This product must be installed in compliance with all local, state, and federal codes.
- · All safety precautions must be followed.
- Dispose of properly in accordance with federal or local regulations.

#### **ELECTRIC SHOCK HAZARD:**

- 120 volts may cause serious injury from electric shock. Disconnect electrical power to the dehumidifier before starting installation or servicing. Leave power disconnected until installation/service is completed.
- To reduce the risk of electrical shock, this equipment has a grounding-type (three prong) plug. This plug will fit only into a grounding-type power outlet. If the plug does not fit into the outlet, contact qualified personnel to install the proper outlet. Do not alter this plug in any way.
- To reduce the risk of electrical shock, position the product so that the power cord can be plugged into an electrical outlet without the use of an extension cord.

#### **RISK OF FIRE OR EXPLOSION:**

- Flammable refrigerant used. Do not puncture refrigerant tubing.
- Store in well ventilated room without continuously operating flames or other potential ignition sources.
- Auxiliary devices which may be ignition sources shall not be installed in duct work.

### **A**CAUTION

- SHARP EDGES MAY CAUSE INJURY FROM CUTS. Use care when cutting plenum openings and handling ductwork. Always wear glasses/goggles and gloves when installing the unit.
- **TWO-PERSON LIFT REQUIRED.** Dropping may cause personal injury or equipment damage. Handle with care and follow installation instructions.
- This unit 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 unit by a person responsible for their safety.
- Be sure to supervise children to ensure that they do not play with the unit.
- Be sure to replace a damaged supply cord. It must be replaced by a special cord or assembly available from the manufacturer or its service agent.
- Never operate electrical equipment in standing water.
- Do not stick your fingers or other objects through the safety grills.
- Do not sit or stand on the unit, or use the unit as a table or shelf.
- The unit is designed to be installed indoors only.
- Always place in well ventilated area to prevent the accumulation of refrigerant in the case of a refrigerant system leak or failure.

### NOTICE

# EQUIPMENT DAMAGE MAY OCCUR IF INSTALLATION INSTRUCTIONS ARE NOT FOLLOWED.

- Do not use in pool applications. Pool chemicals can damage the dehumidifier.
- Do not use solvents or cleaners on or near the display and circuit board. Chemicals can damage components.
- Wait 24 hours before running the unit if it was not shipped or stored in the upright position.
- Do not use dehumidification to prevent window condensation in the winter. To address window condensation, use ventilation to lower indoor humidity in the winter.
- Running the dehumidifier without the drain insert can lead to condensate leaks.

# ELECTRICAL INTERFERENCE CAN CAUSE OUTDOOR TEMPERATURE SENSOR INACCURACY.

- Do not run Outdoor Temperature Sensor alongside wires carrying high voltage (120 VAC or higher).
- Do not run Outdoor Temperature Sensor wire lengths greater than 300 feet.

### **OPERATING THE DEHUMIDIFIER**

1. If equipped, use the ON/OFF power switch, located by the power cord, to apply power to the dehumidifier.

**NOTE:** The unit can remain plugged in with an ON/OFF power switch on, unless the unit will not be used for an extended period. Use the ON/OFF button on the user interface to turn the unit off for short durations. When the unit is idle (neither the fan nor the compressor running) the unit will use less than 3W of power.



 Use the ON/OFF button (see FIGURE 2) on the user interface to turn the dehumidifier ON. The first press of a button will turn on the display light, so if the display was dark, you might need to press it again. Once ON, the display will show the current dehumidifier setting.



3. The dehumidifier blower will turn on, SETTING disappears from the display, and AIR SAMPLING appears (see FIGURE 3). This indicates that the dehumidifier is sampling the air to determine if dehumidification is needed and shows the measured humidity level.

If the control is already ON, lowering the setting will initiate air sampling.



**4.** After sampling the air for 3 minutes, if the Relative Humidity (RH) is above the setting, the compressor turns on to dehumidify the space. **DEHUMIDIFYING** appears when the compressor is turned on (see **FIGURE 4**).



#### **ENERGY SAVINGS TIPS**

#### ENERGY SAVINGS TIP #1:

Adjust the humidity setting to be as high as is comfortable to reduce dehumidifier run time. If it feels clammy or "smells musty," lower the humidity setting. To save energy, turn the dehumidifier to OFF when you open your windows, just as you would with air conditioning.

#### ENERGY SAVINGS TIP #2:

If vacating your home for an extended period in the summer, set the RH at 55% and set your thermostat as high as you are comfortable setting it to in the cooling mode. This will keep the humidity at a controlled level while minimizing the amount of cooling energy used.

### MAINTENANCE

#### **CLEANING THE FILTER**

After initial installation, the air filter and drain should be checked and cleaned every 6 months.

- 1. Press the ON/OFF button on the user interface to turn the unit OFF.
- 2. Remove the snap-on filter access door (see FIGURE 1) from the drain side of the dehumidifier by pulling on the handle until it releases. Then remove the filter door.
- 3. Slide the filter out of the dehumidifier.
- **4.** Rinse the filter with water to remove dust and collected particles from the filter.
- 5. Shake off excess water from the filter.
- 6. Clean the drain as described in **CLEANING THE DRAIN** on page 5.
- 7. Reinstall the filter. An arrow on the filter frame shows the direction of airflow and it should point into the dehumidifier.
- 8. If the filter does not slide back in, make sure the drain insert has been properly installed. See **INSTALLING THE DRAIN** on page 9.
- **9.** Replace the filter access door by inserting the two alignment tabs then snapping the door onto the side panel. Ensure both filter doors are securely installed..

10. Press the ON/OFF button to turn the dehumidifier back ON.

The **CLEAN FILTER** service reminder (see **FIGURE 5**) will display on the control every 6 months. **To clear the service message**, **press the**  $\blacktriangle$  and  $\checkmark$  **buttons simultaneously for 3 seconds**.



#### **CLEANING THE DRAIN**

1. With the filter door on the drain side of the dehumidifier removed, reach in and pull out the drain insert using the finger loop (see **FIGURE 6**).

NOTE: Drain insert must be installed before operating.



- 2. Clean the accessible portion of the drain pan and the drain insert using a mild detergent.
- If the drain has a capped tee or elbow to allow cleaner to be poured directly in the drain, remove the cap and pour approximately one cup of white vinegar into the tube (see FIGURE 7). If there is no visible access to the drain line from outside of the dehumidifier, pour approximately one cup of vinegar into the drain pan of the dehumidifier where the drain insert was located.



- Reinstall the drain insert by gently placing the tip into the drain opening and rocking the insert downwards into place (see FIGURE 6). When inserted properly, the top of the drain insert will be at the same height as the filter guide channel.
- 5. If the dehumidifier has clear flexible drain tubing, look for excess buildup in the drain line that might prevent water flow, and replace as needed. Clear, smooth, flexible 3/4" Inside Diameter (ID) drain tubing is available in most hardware stores or Do-It-Yourself (DIY) retail stores.

### NOTICE

Running the dehumidifier without the drain insert can lead to condensate leaks.

### PREPARING THE UNIT FOR INSTALLATION

**IMPORTANT:** Cut the strap securing the compressor shipping support bracket and remove the strap and shipping bracket (see **FIGURE 8**).

- 1. Clip off and remove the plastic straps securing the compressor to the shipping bracket.
- 2. Remove the two screws securing the shipping bracket to the housing. Remove and discard the shipping bracket, and reinstall the two screws in the dehumidifier.



#### REPOSITIONING THE USER INTERFACE FOR THE APPLICATION

Locate the onboard user interface (see **FIGURE 9**) on the top of the dehumidifier or at the front of the dehumidifier if the user interface cannot be seen/accessed in the top orientation. It may also be rotated 180 degrees in either orientation (see **FIGURE 10**).





#### MOVING THE CONTROL

- 1. Remove the front user interface door.
- 2. Remove the filter access door and filter.
- **3.** Detach the onboard user interface by removing the four (4) screws around the user interface.

**NOTE:** Use one hand to support the bottom of the onboard user interface when removing.

- 4. Keep the user interface in the unit and relocate to the front access hole.
- **5.** Secure the user interface with the same four screws used to attach the user interface to the top of the unit.
- 6. Secure the user interface door to the top of the unit.

#### INSTALLING THE DUCT COLLARS

- Use the screws in the parts bag to attach the duct collars to the inlet and outlet of the dehumidifier. The outlet collar has a backflow damper.
- The outlet duct collar may be attached to the top or end of the unit. Move the outlet cover to the location not being used (see **FIGURE 11**).
- Make sure there are no bends in the ductwork coming off the outlet **for a minimum of 4**". This precaution will ensure that the ductwork will not interfere with the backflow damper function.



### **INSTALLING THE DEHUMIDIFIER**

#### **DEHUMIDIFIER LOCATION**

- Electrical service access and drain cleaning will require the removal of the electrical service side panel (see **FIGURE 12**). Allow sufficient space for service on this side of the unit.
- The filter can be removed from either side of the dehumidifier. Allow sufficient space for the filter to be removed and reinstalled.
- If locating the unit where it is not readily accessible (such as a crawl space, an attic or even a basement for some individuals), consider controls such as the Model 76 Dehumidifier Control, which can be mounted in the living space and wired to the dehumidifier.
- For attic installations, suspending the dehumidifier is recommended to reduce noise transference.
- Always install the dehumidifier in or above a condensate pan when locating in or above a finished space.



#### LEVELING AND RAISING THE DEHUMIDIFIER

NOTE: This does not apply to Model E100C.

The feet can be adjusted to level the unit and accommodate drain fittings and condensate pans as required. Use the top-mounted bubble level to adjust the feet until the bubble is within the outer circle (see **FIGURE 13**). The unit must be level from front to back and side to side to ensure proper drainage from the dehumidifier.

If installing a condensate pump to the side of the unit more elevation than can be provided by the adjustable feet may be needed. Risers (Part #5879) or hanging kits (Part #5822) are available to lift the dehumidifier higher off the floor.



#### INSTALLING A CONDENSATE PAN UNDER THE DEHUMIDIFIER

Always install the dehumidifier in or above a condensate pan when locating it above a finished space. Adhere to local codes regarding draining of the condensate pan. If a condensate pump is needed, make sure it is in the condensate pan as well. Install a float switch in the condensate pan and/or use the overflow wires/terminals on the condensate pump to stop the dehumidifier should overflow occur. See WIRING TO A FLOAT SWITCH on page 13.

#### INSTALLING THE DRAIN

#### **USING HARD PIPE**

- Install a 3/4" PVC slip x 3/4" MNPT PVC fitting to the dehumidifier and use 3/4" nominal PVC Schedule 40 pipe to run the condensate line to the nearest floor drain or to an outside location that slopes away from the building.
- Always maintain a constant downward slope in drain piping. Ensure that drain tubing does not interfere with removal of the side panel or filter door.
- Do not use metal fittings and only hand-tighten threaded fittings. PTFE thread seal tape is recommended for threaded connections.
- Install a tee or three-way elbow at the dehumidifier outlet with a small, capped vertical tube (do not cement cap in place) to allow for cleaner to be poured into the drain line (see **FIGURE 14**).
- PVC primer and cement is recommended for slip-fit connections (do not cement threaded connections).



#### **USING FLEXIBLE TUBING**

- Install the provided 3/4" NPT x 3/4" hose barb fitting and use 3/4" I.D. flexible drain tubing. **Hand-tighten the fitting to the dehumidifier.** PTFE thread seal tape is recommended for threaded connections.
- Always maintain a constant downward slope from the dehumidifier to the nearest floor drain or condensate pump, and do not allow soft tubing to curl up, which may result in air lock.

#### INSTALLING THE CONDENSATE PUMP

- The AprilAire Model 4856 condensate pump is capable of lifting water up to 22 feet (see **FIGURE 15**).
- The dehumidifier can be elevated (while remaining level) to increase downward slope for proper draining.
- Wire the float switch terminals to the normally closed contacts on the condensate pump (see **FIGURE 23**).



### **INSTALLING DUCTWORK**

- Use insulated duct when the dehumidifier is located in an unconditioned space, such as an attic, garage or crawl space, or if connecting a fresh air duct to the dehumidifier ductwork.
- Use zip ties, mastic, and tape as needed to seal the duct connections to the dehumidifier and to seal the insulation sleeves to prevent condensation inside the ductwork.

Connecting the dehumidifier to your HVAC system will pull air to be dehumidified from the whole home and similarly will discharge air to the whole home. **Make sure the duct system pressure the dehumidifier will have to operate against does not exceed 0.4**" Water Column (w.c.) for Model E080 and 0.6" w.c. for Models E100/E100H. Measure the system pressure when the HVAC fan is operating at the highest airflow (speed) setting.

There are not always readily available locations on the HVAC duct system for connecting 10" ducts, and some local codes do not allow ducting to the return side of the HVAC system. If so, another option is to install just the discharge of the dehumidifier to the HVAC system (see **FIGURE 17** and **FIGURE 18**) or to use dedicated registers for both the inlet and discharge of the dehumidifier (see **FIGURE 19**).

#### DUCTING THE DEHUMIDIFIER INLET AND OUTLET TO THE HVAC SYSTEM

- Use when both sides of the duct system are accessible (see FIGURE 16).
- When ducting from return to supply, the HVAC blower does not need to be running when the dehumidifier is running.
- When ducting return to supply, allow adequate space (24" min) before the first branch duct to ensure the warm dehumidified air is thoroughly mixed with the HVAC system air.
- When ducting from return to return, wire the dehumidifier to the HVAC system as shown in **FIGURE 21** to ensure the HVAC blower runs when the dehumidifier is operating.
- Wire the dehumidifier to the HVAC system (see **FIGURE 21** for exact wiring) and set up the dehumidifier to be disabled when the AC is running.



#### DUCTING THE DEHUMIDIFIER OUTLET TO THE HVAC SYSTEM WITH DEDICATED DEHUMIDIFIER INLET REGISTER

- To direct dehumidified air away from a potentially wet AC coil, duct to the supply side of the HVAC system for air handler applications where air is pulled through the AC coil (see **FIGURE 17**).
- Duct to the return side of the HVAC system for furnace applications where air is pushed through the AC coil. Check local codes to verify that ducting to the return side of the HVAC system is allowed (see **FIGURE 18**).
- Wire the dehumidifier to the HVAC system as shown in **FIGURE 21** and set up the dehumidifier to be disabled when the AC is running.

Use dedicated registers to duct the dehumidifier to the whole home when HVAC system ductwork is unavailable or impractical (see **FIGURE 19**).

#### FIGURE 17: DISCHARGE TO SUPPLY SIDE

#### DEDICATED RETURN TO MAIN SUPPLY







### WIRING

#### No additional wiring is needed unless:

- the dehumidifier is ducted to the HVAC system
- a separate, external control such as a thermostat or dehumidistat is to be used
- a float switch, either integral to a condensate pump or mounted to the condensate pan, is used

Use 18-22 AWG wire for any needed wiring. Access the dehumidifier wiring terminals by pulling off the wiring access cover near the user interface display (see **FIGURE 20**). Snap the wiring access cover back into place after completing all wiring.

#### WIRING TO THE HVAC SYSTEM

When the dehumidifier is ducted to the HVAC system, it is recommended that it also be wired to the HVAC system as shown in **FIGURE 21**. If ducted to the HVAC system in a return-to-return configuration, the dehumidifier **must** be wired to the HVAC system to prevent short-circuiting dehumidified air directly back to the dehumidifier inlet. In a return-tosupply ducting configuration, running the HVAC fan with the dehumidifier ensures the warm dry air is mixed with room air before being discharged to the home.

#### **OPTIONAL W & Y WIRING**

- Wire the W and/or Y terminal to the HVAC system when using the ventilation feature of the dehumidifier. See **VENTILATION** on page 13.
- Wire the dehumidifier Y terminal to the HVAC system to disable the dehumidifier compressor from operating when the air conditioning is running. See **ENABLING DEH W/AC** on page 16 for additional setup steps required to access this feature.

#### WIRING TO EXTERNAL OR REMOTE CONTROL

The dehumidifier can be wired to an **external control** that senses the humidity in the living space, such as an AprilAire Thermostat or the Model 76 Dehumidifier Control. This is most often done when the **dehumidifier is ducted to the HVAC system** and is located in a hard-to-reach location such as an attic or basement.

The Model 76, when used as a **remote control**, allows the user to see the humidity sensed by the dehumidifier and adjust the dehumidifier setting from a remote location. This is most often used when the **dehumidifier is not ducted to the HVAC system** and serves a hard-to-reach location such as a crawl space or basement.

If using an **external control**, wire to the DH terminals of the dehumidifier (see **FIGURE 22**). Most external controls use a normally open switch that closes with a dehumidification demand, in which case leave the NC/NO switch in the NO position. For controls that use a normally closed switch, put the NC/NO switch in the NC position. If using the AprilAire Model 76 as a **remote control**, wire to the (+ - A B) terminals. Refer to the installation instructions for the control being used for wiring details.

#### FIGURE 20: WIRING ACCESS COVER LOCATION







#### WIRING TO A FLOAT SWITCH

Use only if the installation includes a float switch or a condensate pump. The dehumidifier leaves the factory with a jumper wire installed in the float switch terminals. Remove the jumper and wire the float switch terminals to the float switch or condensate pump overflow switch as shown in **FIGURE 23**.



### VENTILATION

The dehumidifier can activate a normally closed damper to bring in outdoor air through a fresh air intake duct. This feature cannot be used when a Model 76 has been installed in a remote control application and should not be used in two-zone installations.

1. Install the Fresh Air Inlet (FAI) duct and damper as shown in **FIGURE 24** and **FIGURE 25**.



#### FIGURE 25: EXTERNAL CONTROL VENTILATION INSTALLATION



 Install the Outdoor Temperature Sensor (ODT) as shown in FIGURE 26 and FIGURE 27 – only needed if ventilation will be limited during high or low outdoor temperature conditions.





3. Wire the FAI damper, HVAC equipment and outdoor temperature sensor to the dehumidifier control as shown in **FIGURE 28**.



- 4. Use the Set-Up menu to ENABLE ventilation:
  - a. Enter the Installer Set-Up menu (see page 15).
  - **b.** Press the Mode button until **VENT DISABLED** appears.
  - c. Press the  $\blacktriangle$  or  $\blacktriangledown$  button to change to **VENT ENABLED**.
  - d. Press the Mode button and VENT TIMED will appear. Press the ▲ or ▼ button to set temperature limits:
    - i. TIMED: no temperature limits
    - **ii.** AUTO B: Ventilation is not allowed if the ODT > 100°F or ODT < 0°F; ventilation is allowed only when the heat is on if the ODT is between 0°F and 20°F
    - **iii. AUTO C:** Ventilation is not allowed if the ODT > 100°F or ODT < 0°F
    - iv. AUTO D: Ventilation is not allowed if the ODT > 90°F; ventilation is allowed only when the heat is on if the ODT is between 0°F and 40°F
  - e. Press the Mode button and then use the ▲ or ▼ button to set the ventilation time (minutes/hour).
  - f. Press the Mode button repeatedly until DONE appears on the display.

Whenever the heating, cooling or dehumidifier is active, the ventilation damper will open and bring in outdoor air. If the equipment doesn't run for the set number of minutes, the dehumidifier will turn on the HVAC fan at the end of the hour to ensure ventilation needs are met.

### **ZONING THE DEHUMIDIFIER**

The dehumidifier can be configured to condition two independent spaces. Zoning requires the installation of ductwork and dampers to direct air to and from two locations.

**NOTE:** Dehumidifier zoning is not recommended in HVAC zoning applications.

In this installation the dehumidifier controls the humidity in two separate zones, a Primary and Secondary Zone. The dehumidifier will dehumidify the Primary Zone as the first priority and will switch to the Secondary Zone after the dehumidification needs of the Primary Zone have been satisfied.

**IMPORTANT:** Normally Closed dampers must be installed in the ducts serving the Primary Zone and Normally Open dampers installed in the ducts serving the Secondary Zone.

#### **REQUIRED COMPONENTS**

- 10" ductwork and fittings
- Grilles with 10" duct collars
- Drain line
- (2) AprilAire Model 6510, 10" Normally Closed damper
- (2) AprilAire Model 6610, 10" Normally Open damper
- 24 VAC transformer (40 VA min.) for dampers

NOTE: 5442 Basement Kit includes (2) 6510 Dampers, (2) 6610 Dampers and a 24 VAC (40 VA) transformer.





### **INSTALLER SET-UP**

#### Enter the Set-Up menu if:

- the dehumidifier is ducted to the HVAC system
- an external or remote control will be used
- ventilation or zoning will be used
- 1. Plug unit in and turn power switch ON (if equipped).
- The onboard control screen should display OFF. If not OFF, press the ON/OFF button to turn the unit OFF.



**NOTE:** If the display backlight is not on, the first button press (any button) will only turn on the backlight. Press the button a second time to achieve function.

- **3.** Hold the MODE button on the onboard control for 3 seconds to enter the Installer Set-Up menu.
- 4. Press MODE to navigate through the screens to set up the dehumidifier for the installed application. Press the ▲ or ▼ button to select items. To exit installer set-up, navigate through all options using the MODE button. Navigate through the following screens to set up the dehumidifier for the installed application.
- 5. After the Installer Set-Up options have been completed, DONE will blink for 3 seconds and the control will return to the OFF screen.



6. Not all system set-up options will be covered in these instructions. The default settings are recommended for those options in most applications.

### SETTING UP REMOTE CONTROL - CRAWL SPACE/SEALED ATTIC

If wiring to a Model 76 for remote control (see pages 12 and 18 for details) press the  $\blacktriangle$  or  $\checkmark$  button to select **ENABLED**. Then press the MODE button to advance screen.



#### SETTING UP VENTILATION

See page 13 for details if using the dehumidifier for ventilation.



#### SETTING UP ZONING

See page 14 if zoning the dehumidifier.



#### SETTING UP EXTERNAL CONTROL

If wiring to an external control (see page 12 for details) press the  $\blacktriangle$  or  $\checkmark$  button to select **ENABLED**. Then press the MODE button to advance screen.

ONVOFF		
	EXTERNAL	

#### ENABLING DEH W/AC

To allow dehumidification during active air conditioning, select **ENABLED** and press the MODE button.



To disable dehumidification when the air conditioning is on, select **DISABLED** and press the MODE button. This option may be preferable when the air conditioning system has difficulty maintaining the desired set point.



#### APPLYING AN RH OFFSET

An offset can be applied to the onboard humidity reading to avoid discrepancies with other humidity-measuring devices in the home. Use the  $\blacktriangle$  or  $\checkmark$  button to select an offset from -5% to 5%. Press the MODE button to exit the Installer Set-Up screens. **DONE** will be displayed on the screen and Installer Set-Up is complete.



### **INSTALLER TEST MODE**

If everything is properly wired, the dehumidifier and all of the wired components will turn on and off during Installer Test Mode to demonstrate that all are properly operating. Installer Test Mode lasts for four (4) minutes. If the ON/OFF button is pressed during test mode, the dehumidifier will exit Installer Test Mode and return to the **OFF** screen.

### DEHUMIDIFICATION ONLY

If the dehumidifier is not already OFF, press the ON/OFF button to turn it off.



Press and hold the ON/OFF and MODE buttons for 3 seconds. The measured humidity, **AIR SAMPLING** and **TEST** will show on the display. If wired to the HVAC system, the HVAC blower will turn on and if there is/are damper(s) wired to the DEH DAMPER terminals of the control, the damper(s) will energize.



After three (3) minutes the dehumidifier compressor will turn on and **DEHUMIDIFYING** will replace **AIR SAMPLING** on the control screen.



After one minute of compressor operation, all outputs will turn off and **DONE** will blink for 3 seconds and then return to the **OFF** screen.



#### ZONING AND/OR VENTILATION

If the dehumidifier has been set up for ventilation, **VENTILATING** will appear on the display throughout Installer Test Mode, and the ventilation damper will be energized.



If the dehumidifier has been set up for zoning, **PRIMARY ZONE** will show on the display for the first minute of dehumidifier blower operation. After one minute, **SECONDARY ZONE** will show on the display and the zone dampers will de-energize.



### STARTING UP THE UNIT AND SEQUENCE OF OPERATION

Ensure unit is plugged in and if equipped use the ON/OFF power switch near the power cord to apply power to the dehumidifier.

#### USING THE DEHUMIDIFIER CONTROL ONLY

1. Press the ON/OFF button to turn the dehumidifier control ON. The display will show the current humidity setting, and the dehumidifier blower and HVAC blower (if wired to the HVAC system) will turn on to start sampling.

The setting will be replaced by the measured humidity and **AIR SAMPLING** appears on the display.

- Use the ▲ or ▼ button to adjust the humidity setting as desired. The recommended initial setting is between 55% and 59% RH.
- **3.** After three (3) minutes of sampling, the measured humidity will be compared to the setting:
  - a. If the humidity is above the setting, the dehumidifier compressor turns on and AIR SAMPLING will be replaced by DEHUMIDIFYING. The compressor remains on until the measured humidity falls 3% RH below the setting.
  - **b.** If the measured humidity is below the setting, the blowers turn off and the display returns to showing the RH setting.
- **4.** The dehumidifier will sample again every 60 minutes, or at any time if the humidity setting is lowered.

#### **USING A MODEL 76 AS A REMOTE CONTROL**

- 1. Press the ON/OFF button to turn the dehumidifier control ON. The display will show **REMOTE** to indicate that a remote control is to be used to control the dehumidifier.
- 2. At the Model 76, press the ON button; the Model 76 will display the RH measured at the dehumidifier, and the dehumidifier blower will turn on to start sampling the air.
- Use the ▲ or ▼ button on the Model 76 to adjust the dryness level as desired. The dryness levels range from 1 to 7, with 1 being least dry and 7 being most dry; the recommended initial setting is 3.
- **4.** After three (3) minutes of sampling, the measured humidity will be compared to the setting:
  - **a.** If the humidity is above the setting, the dehumidifier compressor turns on and **ON** flashes on the Model 76 display.
  - **b.** If the measured humidity is below the setting, the dehumidifier blower turns off.
- 5. The dehumidifier will sample again every 60 minutes, or at any time if the dryness level is increased.

#### USING AN EXTERNAL CONTROL

- 1. Press the ON/OFF button to turn the dehumidifier control ON. The display will show **EXTERNAL** to indicate that an external control is to be used to control the dehumidifier.
- 2. At the external control, initiate a dehumidification demand. Refer to the literature provided with the external control. The dehumidifier fan and compressor, and the HVAC fan (if wired to do so) will turn on and **DEHUMIDIFYING** will appear on the display of the dehumidifier.

**NOTE:** When using an external control, there is a threeminute delay after power-up (i.e., ON/OFF power switch is turned ON with unit plugged in) before the dehumidifier will respond to an external control. This prevents unanticipated, early start-up after power is applied.

**3.** Discontinue the demand at the external control; the dehumidifier and HVAC fan will turn off.

#### **TWO-ZONE OPERATION**

The Primary Zone operates as listed for using the dehumidifier control or an external control. **PRIMARY ZONE** shows on the display when operating.

The Secondary Zone uses the humidity setting on the dehumidifier control. During Secondary Zone operation, the installed dampers are de-energized and the HVAC blower (if on) stops. **SECONDARY ZONE** shows on the display when operating.

The Secondary Zone is sampled immediately after the Primary Zone has finished sampling, or if there is a call for dehumidification from the Primary Zone, immediately after the call has been satisfied. When an external control is installed, the Secondary Zone will be sampled once per hour if there has not been a call for dehumidification from the Primary Zone.

### SERVICE INSTRUCTIONS

#### SYMBOLS

		•1
Symbol ISO 7010-W021 (2011-05)	Symbol ISO 7000-1659 (2004-01)	Symbol ISO 7000-1659 (2004-01)
Warning: flammable materials	Service indicator: read technical manual	Operator's manual: operating instructions

#### SAFETY INSTRUCTIONS

#### **WARNING**

- Sealed Refrigeration System is not field serviceable!
- This appliance contains a mildly flammable A2L refrigerant.
- Do not use means to accelerate the defrosting process or to clean, other than those recommended by the manufacturer.
- The appliance shall be stored (when not in use) in a room without continuously operating ignition sources (for example: open flames, an operating gas appliance or operating electric heater).
- Do not pierce or burn sealed system.
- Be aware that refrigerants may not contain odor.

### **A** CAUTION

When connected via air ducts to one or more rooms the appliance shall be directly ducted to the space. Open areas such as false ceilings shall not be used as a return air duct.

#### SERVICE

**Approved auxiliary devices:** Only approved auxiliary devices approved by the appliance manufacturer shall be installed in the ductwork.

Fresh Air Ventilator, Stock # 8190FF

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

- The ventilation machinery and outlets are operating adequately and are not obstructed.
- Marking on the equipment shall be visible and legible. Markings and signs that are illegible shall be corrected.
- When opening the ventilated enclosure for repair of electrical components, be sure to check for refrigerant leaks with a certified flammable refrigerant leak detector.

#### Repair Initial safety checks shall include:

- Servicing the electrical system on the unit should be carried out by a qualified and licensed electrician.
- Disconnect power from the unit (unplug) before attempting service or repair.
- The 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 in case of a leak.
- · There is continuity of earth bonding.
- Sealed electrical components shall be replaced, not repaired.
- Do not apply any permanent inductive or capacitance loads to the circuit without ensuring that this will not exceed the permissible voltage and current permitted for the equipment in use.
- Intrinsically safe components must be replaced if tripped.
- Replace components only with parts specified by the manufacturer. Other parts may result in the ignition of refrigerant in the atmosphere from a leak.
- Prior to beginning work on systems containing FLAMMABLE REFRIGERANTS, safety checks are necessary to ensure that the risk of ignition is minimized.
- Ensure that the area is in the open or that it is adequately ventilated before removal of the dehumidifier panels for servicing or conducting any hot work in the vicinity of the unit. 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.

- The refrigeration system is considered factory sealed and puncturing the refrigerant tubing in any way is prohibited.
- Repairing the refrigeration system shall not be performed in the field and must be done at the manufacturing facility by trained personnel.
- 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 consider the effects of aging or continual vibration from sources such as compressors or fans.
- If a leak is suspected, all naked flames shall be removed/extinguished.

# The following leak detection methods are deemed acceptable for all refrigerant systems:

- 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.
- Electronic leak detectors may be used to detect refrigerant leaks but must be calibrated correctly for Flammable Refrigerants. (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 Lower Flammability Limit (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 pipework. Examples of leak detection fluids are:
- bubble method,
- fluorescent method agents.
- NOTE: The use of silicon sealant can inhibit the effectiveness of some types of leak detection equipment.

FOR ADDITIONAL ASSISTANCE: Technical Support is available Monday through Friday (see TROUBLESHOOTING).

### TROUBLESHOOTING

### NOTICE

Troubleshooting and repairs shall be performed by a qualified HVAC service technician, and all safety procedures shall be followed.

Technical support is available Monday through Friday 7:00 a.m. to 5:00 p.m. CST at 800.334.6011. Use the guides on the following pages to identify and correct system faults. Contact Technical Support before replacing the unit or any components and for additional troubleshooting.

#### **DIAGNOSTIC CODES**

When an error occurs, the Diagnostic Code along with **SERVICE REQUIRED** will be displayed on the user interface screen.

ABLE 1: DIAGN	IOSTIC CODES		
Diagnostic Code	Failure Mode	Action	Reset
El	Internal Humidity or Temperature Sensor Open or Shorted	<ol> <li>Cycle power to clear error code. Unplug the unit from the outlet or switch the ON/OFF power switch (if equipped) to the OFF position for at least 10 seconds before restoring power.</li> <li>If error code reoccurs, replace User Interface, Part #5445.</li> </ol>	Cycle Power
E2	High Refrigeration Pressure	<ol> <li>Verify that the fan works, the backflow damper swings freely, and there is no blocked or restricted ductwork.</li> <li>If the fault persists, call Technical Support.</li> </ol>	Cycle Power
E3	Model 76 Remote Control Communication Loss	<ol> <li>Check connections between Model 76 and dehumidifier user interface. Terminals should be fully inserted and secured in the user interface and Model 76 control terminals.</li> <li>If connections are correct and secure, turn off the dehumidifier and remove the Model 76. Use a short section of 4-wire cable to reconnect the Model 76 to the user interface. Turn the dehumidifier back on and increase the dryness level setting on the Model 76. If the dehumidifier turns on, a problem exists with the wiring between the dehumidifier and control.</li> <li>If the dehumidifier does not turn on, call Technical Support.</li> </ol>	Self-Correcting
E4	Insufficient Capacity	<ol> <li>Check the frost sensor connection at the power board. The terminal should be fully seated on the power board pins.</li> <li>Remove the side access panel and verify that the sensor is secured to the suction line.</li> <li>If the sensor is connected and secured to the refrigeration line, proceed to the next step.</li> <li>Reset the fault by cycling power to the dehumidifier.</li> <li>Turn the humidity setting down (below room/home humidity level) to make a dehumidification call.</li> <li>Allow the fan and compressor to run for approximately 10-15 minutes and then enter diagnostic test mode by simultaneously pressing the ▲ button and MODE button for 3 seconds. The LCD will display:         <ul> <li>the temperature measured by the internal sensor while also displaying AIR SAMPLING and ON.</li> <li>the frost sensor temperature while also displaying ON.</li> <li>Scroll through these values and by using the ▲ or ▼ button.</li> </ul> </li> </ol>	Cycle Power



TABLE 1: DIAGNOSTIC CODES					
Diagnostic Code	Failure Mode	Action			Reset
E5	High Temperature Thermistor Failure	<ol> <li>Check the high temperature sensor connection (if equipped) at the power board. The terminal should be fully seated on the power board pins.</li> <li>Remove the side access panel and verify the sensor is not damaged and connected to the refrigeration line coming from the compressor.</li> <li>If the sensor is connected and secured to the refrigeration line, it may need to be replaced with Part #5456 - contact Technical Support to confirm.</li> </ol>			Cycle Power
E6	Low Temperature Thermistor Failure	<ol> <li>Remove the side access panel and ver connected to the suction line.</li> <li>If the sensor is connected and secured</li> </ol>	3. If the sensor is connected and secured to the refrigeration line, it may need to be replaced with Part #5455 – contact Technical Support to		
E7	Float Switch Open	<ol> <li>Empty the condensate pan.</li> <li>Check the float switch connection at the user interface.</li> <li>If not using a float switch, verify jumper is between float switch terminals on dehumidifier user interface.</li> <li>If the problem persists, replace the float switch.</li> </ol>			Self-Correcting
E8	Inlet Air Temperature Out of 50°F–104°F Range, or Dew Point Below 40°F	<ol> <li>Verify all ductwork is properly sealed.</li> <li>Check for air leakage that might affect the temperature or RH of the incoming air.</li> <li>If the air temperature is in range and the dew point is above 40°F, contact Technical Support.</li> </ol>			Self-Correcting
E9	Outdoor Temperature Sensor Open or Shorted	<ol> <li>Check the sensor connection at the power board.</li> <li>Remove the wires from the terminals and measure the resistance. A short circuit will have a resistance very close to 0 Ohms and an open circuit will have a very high resistance. Use the Ohms chart at right to approximate the resistance based on outdoor temperature.</li> <li>If the sensor is not reading correctly, replace the sensor, Part #8052.</li> </ol>	Outdoor Temperature           0°F           20°F           40°F           60°F           80°F           100°F	Resistance           84,500 Ohms           46,000 Ohms           26,000 Ohms           15,500 Ohms           9,500 Ohms           6,000 Ohms	Self-Correcting

TABLE 2: TROUBLESH	OOTING GUIDE			
Symptom	Failure Mode	Action		
Dehumidifier does not turn on/run.	No power to unit.	<ul> <li>Check that the dehumidifier is plugged in.</li> <li>Check that the power switch is turned ON (if equipped).</li> <li>Check that the user interface is turned ON.</li> <li>Check that the circuit breaker has not tripped.</li> </ul>		
Dehumidifier blower is running but with little or no airflow.	Pressure drop across dehumidifier is higher than 0.4" w.c. for Model E080 or 0.6" w.c. for Model E100/E100H.	<ul> <li>Check dehumidifier air filter and wash or replace.</li> <li>Check for blocked ductwork and clear.</li> <li>Verify that the outlet collar with backflow damper is installed on the outlet side of the dehumidifier.</li> <li>Check if backflow damper is blocked or stuck and remove obstruction.</li> </ul>		
	Float Switch open ( <b>E7</b> appears on display).	<ul> <li>If float switch is installed, check connections at us condensate pan.</li> <li>If no float switch is installed, check that the jumpe terminals on the user interface.</li> </ul>		
Dehumidifier blower is running but compressor	Unit is defrosting.	• Frosting occurs when the incoming air is cool and dry, normally during Spring or Fall, or the airflow is restricted. Frosting due to cold/dry conditions is a normal part of operation and <b>DEFROSTING</b> will show on the display. If it is not cool and dry, look for blocked ductwork or a dirty filter.		
is not.	Inlet air temperature is outside of the 50°F–104°F range or the dew point is below 40°F and there is a demand for dehumidification.	<ul> <li>Verify all ductwork is properly sealed. Dehumidification will restart by itself when the incoming air temperature is within range and the dew point is above 40°F. E8 appears on the display when inlet air conditions prevent operation.</li> </ul>		
When zoned, the dehumidifier damper does not open in INSTALLER TEST mode.	Incorrect damper wiring or bad connection.	<ul> <li>Verify wiring between dampers and 24 VAC transformer.</li> <li>If wired for Two Zone operation, verify that 24 VAC transformer is 40 VA minimum.</li> <li>Check all wiring connections between dampers and user interface.</li> <li>Verify the normally closed dampers are in the Primary Zone ductwork and the normally open dampers are in the Secondary Zone ductwork.</li> </ul>		
	Cycle time has been met.	• The damper will not open if the ventilation time h	as already been me	et.
	Incorrect transformer wiring.	<ul> <li>Verify wiring between damper, VENT terminal, and be wired in series.</li> <li>Verify that 24 VAC transformer is 10 VA minimum of</li> </ul>		
The ventilation damper does not		<ul> <li>Check that the ODT is wired correctly to the dehumidifier user interface and connections</li> </ul>	Outdoor Temperature	Resistance
open when the		are secure.	0°F	84,500 Ohms
HVAC fan is active.	ODT error or outdoor air outside of ODT range.	Check that the ODT is installed in the outdoor air intake according to the setup specified in	20°F	46,000 Ohms
		<b>VENTILATION</b> on page 13.	40°F	26,000 Ohms
		• Remove the ODT leads from the dehumidifier user interface and check the resistance.	60°F	15,500 Ohms
		Compare the reading with the chart on the right.	80°F	9,500 Ohms
			100°F	6,000 Ohms
Dehumidifier is not draining properly.	Drain line blocked or unit not level.	<ul> <li>Verify that the unit is level.</li> <li>Check the drain line blockages and check for a condition of drain cover inse cleaning procedure, or replace with Part #5885 if</li> </ul>	rt. See <b>MAINTENANC</b>	E on page 5 for
The HVAC fan turns on unexpectedly.	Dehumidifier is sampling or ventilation in progress.	• The dehumidifier will turn on the HVAC fan during air sampling or as needed to meet the ventilation time.		
Dehumidifier is producing hot air.	Normal function.	Air is reheated across the condenser coil, resulting and outlet.	g in a temperature	rise between inle

## E080/E100 SERVICE PARTS



No.	Part Description	Part No.
1	EZK Filter, 13.5" x 11.875" x 0.875"	5881
2	Internal Control Board	5444
3	User Interface Assembly	5445
4	Wiring Access Door	5446
5	Hole Cover, UI Ctrl	5447
6	Door, Filter Access, Tool Free, Right	70000200
7	Door, Filter Access, Tool Free, Left	70000201
8	Outlet Duct Panel	5449
9	Backflow Damper, 10"	5450
10	Inlet Duct Panel	5451
11	Cover, Outlet	5452
12	Fan, 80pt Deh, with 6MFD Capacitor	5883
12	Fan, 100pt Deh, with 12MFD Capacitor	5886
13	Wire Harness, Power	5884
13	Wire Harness, Power, Deh w/ Vent*	5888

No.	Part Description	Part No.
14	Sensor, Low Temperature	5455
15	Sensor, High Temperature (if equipped)	5456
16	Leveling Foot (not included with E100C)	5457
17	Capacitor, Run, 50µF	5594
18	Capacitor, 6MFD, 250VAC, 80p	5582
10	Capacitor, 12MFD, 450VAC, 100p	5468
19	Drain Insert	5885
20	Drain Tube + Threaded Barbed Fitting	5692
20	Threaded Barbed Drain Fitting	5693
21	8190FF/E100V Internal Wiring Harnesses (not included)	5914
NOT S	HOWN	
8190FF	5887	
Caste	70000014	
Conde	ensate Pump with Tubing	4856

\*Compatible with Model E100V and units equipped with the 8190FF vent kit.

#### Terms of Coverage

Your AprilAire® Dehumidifier is expressly warranted to be free from defects in materials or workmanship for five (5) years from date of purchase.

#### What Is Covered

The exclusive obligation of AprilAire under this Limited Warranty shall be, at the sole discretion of AprilAire, to supply, without charge, a replacement for any component or product which is found to be defective. A defective part will be replaced pursuant to this Limited Warranty with a genuine AprilAire part. A defective product will be replaced pursuant to this Limited Warranty with a new AprilAire product of equal or similar features and functionality if the original product has been discontinued or is no longer available.

#### Not Covered by the Limited Warranty

- Consumable or maintenance products, such as, but not limited to: Air Filters, Evaporative Humidifier Water Panels, Steam Canisters, or Steam Humidifier Electrode Wires.
- Products purchased from third parties that were previously used, such as previously-used products purchased from eBay, similar third party/auction sites, or individuals selling used products.
- Labor charges, shipping costs, removal fees, service fees, or reinstallation costs.
- Materials furnished by the installer.
- Damage caused by misuse, abuse, improper installation, or failing to install, use, or maintain the product in accordance with the instructions provided.
- Damage to HVAC equipment caused by improper installation(s) or misapplication installation(s).
- Modifications, changes, repurposing, or alterations to the AprilAire product.
- · Extended warranties or satisfaction guarantees offered by third parties
- Cosmetic damage or normal wear and tear, including, but not limited to: scratches, peeling finish, or dents that do not impede the mechanical functionality of the product.
- Damage caused by acts of nature, including but not limited to: fire, collision, flood, wind, power surge, lighting strike, or mold.
- · Damage caused during transit.
- Damage caused during installation due to failure to follow local, state, or federal laws, statutes, codes, or ordinances.
- · Damage caused by defects in materials furnished by the installer.

#### Limit of Liability

IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SHALL BE LIMITED IN DURATION TO THE AFOREMENTIONED EXPRESS WARRANTY PERIOD. APRILAIRE LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, OTHER THAN DAMAGES FOR PERSONAL INJURIES, RESULTING FROM ANY BREACH OF THE AFOREMENTIONED IMPLIED WARRANTIES OR THE ABOVE LIMITED WARRANTY IS EXPRESSLY EXCLUDED. THIS LIMITED WARRANTY IS VOID IF DEFECT(S) RESULT(S) FROM FAILURE TO INSTALL THE PRODUCT ACCORDING TO THE APRILAIRE INSTALLATION INSTRUCTIONS. IF THE LIMITED WARRANTY IS VOID DUE TO MISAPPLICATION OR IMPROPER INSTALLATION, ALL DISCLAIMERS OF IMPLIED WARRANTIES SHALL BE EFFECTIVE UPON INSTALLATION.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitation(s) may not apply to your situation. This Limited Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

#### **Register Your AprilAire® Product**



Thank you for choosing AprilAire. Register your product at **aprilaire.com/warranty** to receive important updates and notifications, and to streamline the process in the unlikely event you file a claim.

Your warranty registration information will not be sold or shared outside of this company.

#### Make a Warranty Claim

For questions regarding the Limited Warranty or to initiate a claim, contact AprilAire Customer Service at 1.800.334.6011 Monday through Friday, 7:00 a.m. to 5:00 p.m. Central Time.

At the sole discretion of AprilAire, you may be required to: return the product not later than thirty (30) days after the warranty period to the place of purchase or (if directed) to AprilAire, contact a professional contractor to provide warranty service, submit a product for testing related to a warranty claim, and/or send pictures of the original product with the serial number (if applicable) to AprilAire Technical Support for inspection as a condition to reviewing a claim and/or receiving a replacement product under this Limited Warranty.

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