

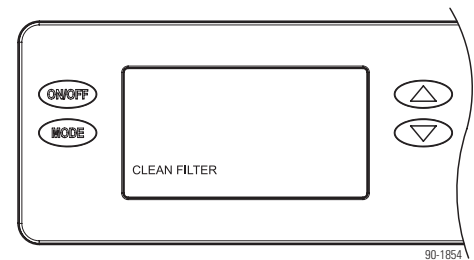
MAINTENANCE

CLEAN OR REPLACE THE AIR FILTER

After initial installation the air filter should be checked and cleaned every 6 months. The CLEAN FILTER service reminder will display on the on-board control screen every 6 months. To clear the service message, press the UP and DOWN arrows simultaneously for 3 seconds.

Filter Cleaning Procedure

1. Turn the ON/OFF switch OFF.
2. Remove the filter access door from either side of the dehumidifier.
3. Slide the filter out of the dehumidifier.
4. Flush the filter with warm water and a mild detergent solution.
5. Shake off the excess water from the filter.
6. Replace the filter, making sure the filter is secured in both the top and bottom filter rails.
7. Replace the filter access door.
8. Turn the ON/OFF switch ON.
9. Press the UP and DOWN buttons simultaneously for 3 seconds to clear the service message.



CHECK THE DRAIN

The drain should be checked annually to ensure there are no blockages or air lock in the drain system. If the unit is not draining properly, have it checked by a qualified service professional.

CAUTION

Do not use spray solvents or cleaners on or near the inlet side of the dehumidifier.
If desired, apply cleaner to a cloth and use to clean the cabinet.

DUCT COLLAR INSTALLATION

HORIZONTAL DISCHARGE

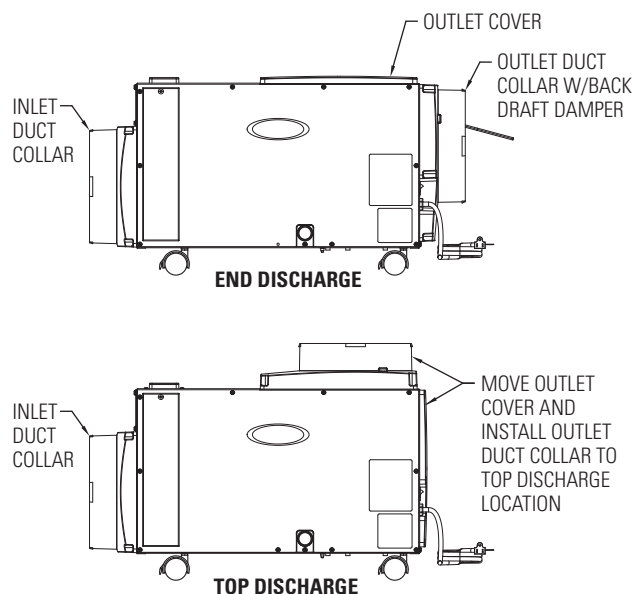
- Use the screws in the parts bag to attach the duct collars to the inlet and outlet of the dehumidifier. The outlet collar has a backflow damper.
- The outlet duct collar may be attached to the top or end of the unit. Move the outlet cover to the location not being used. See **Figure 7**.
- Make sure there are no bends in the ductwork coming off the outlet for a minimum of 4". This will ensure that the ductwork will not interfere with the backflow damper function.

VERTICAL DISCHARGE

Use the screws provided in the parts bag to attach the duct collars:

- When the dehumidifier requires a ducted vertical discharge, remove the top access panel and remount on the outlet of the unit. Install the outlet duct collar with backflow damper on top of the unit. See **Figure 7**.

FIGURE 7 – Fully Ducted Installations



90-1909

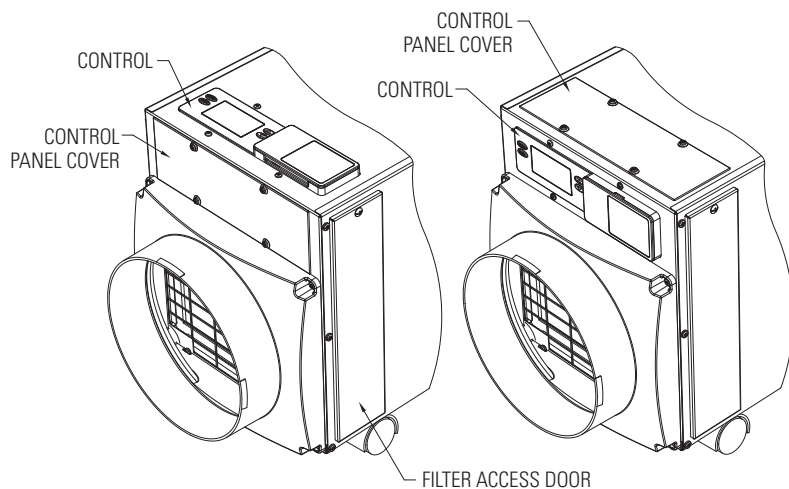
CONTROL LOCATION

The on-board control can be located on the top of the dehumidifier or can be relocated to the front of the dehumidifier if the control can not be seen/accessed in the top orientation.

To move the control:

1. Remove the front control panel cover.
2. Remove the filter access door and filter.
3. Detach the on-board control by removing the four (4) screws around the control. **NOTE:** Use one hand to support the bottom of the on-board control when removing.
4. Keep the control in the unit and relocate to the front access hole.
5. Secure the control with the same four screws used to attach the control to the top of the unit.
6. Secure the control panel cover to the top of the unit.

FIGURE 8 – Control Location



90-1884

DUCTING

DUCTING IN BASEMENT

The dehumidifier can be ducted to pull air from and return dehumidified air to the HVAC return duct. This installation will ensure warm, dehumidified air is thoroughly mixed with the HVAC system air before being discharged into the living space. Alternatively, the dehumidifier can be ducted to discharge to the supply duct, but the external static pressure of the HVAC system must not exceed 0.6" w.c.

Required Component

10" Ductwork

FIGURE 9 – Preferred Basement Installation

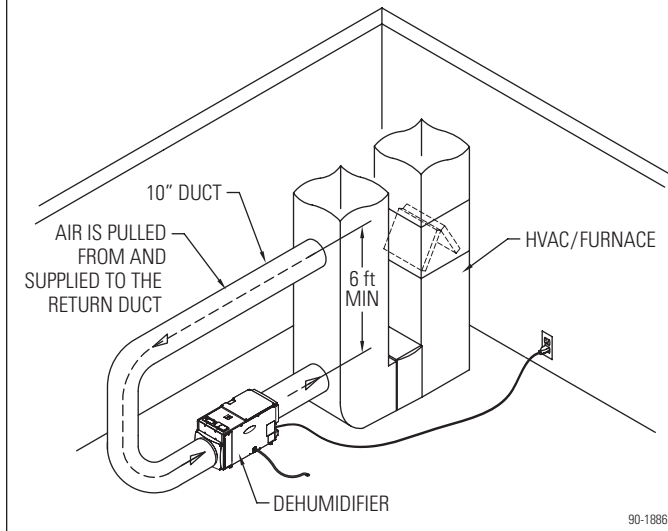
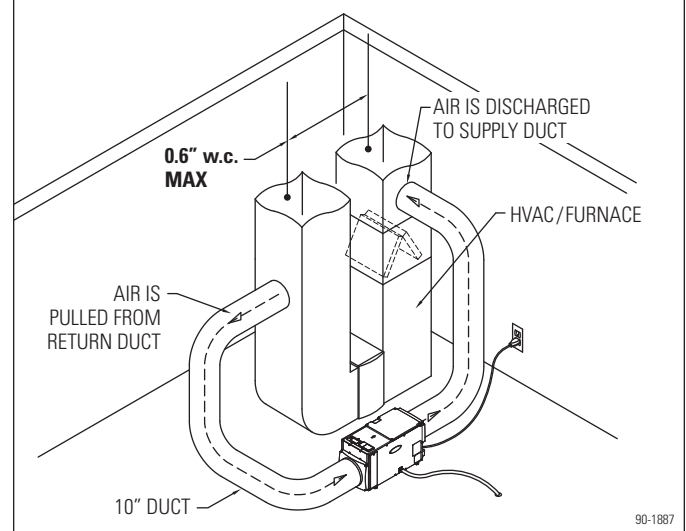


FIGURE 10 – Alternate Basement Installation



Ducting Notes:

- Use insulated duct when the discharge is ducted to the supply side of the HVAC system.
- Use a minimum of 12" of flex duct at the dehumidifier inlet and outlet to prevent vibration noise transmission.
- When ducting return to return (preferred), the dehumidifier must be wired to turn on the HVAC fan when operating.
- When ducting return to supply, allow adequate space before the first branch duct to ensure the warm dehumidified air is thoroughly mixed with the HVAC system air.

DUCTING TO HVAC SYSTEM IN MECHANICAL CLOSET

The dehumidifier in these applications is typically installed under or next to the HVAC equipment. See **Figure 11**. The dehumidifier is ducted to the HVAC supply duct using the outlet on the top of the unit. The supply side external static pressure of the HVAC system must not exceed 0.6" w.c..

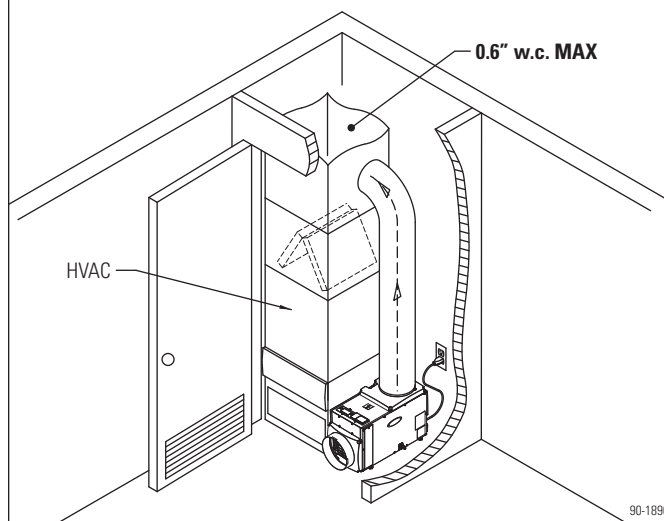
CAUTION

When installing the dehumidifier as part of a combustion type furnace (gas, oil, propane, etc.) HVAC system located in a closet, duct or locate the dehumidifier inlet and outlet and seal as needed to separate the circulation air from the combustion and ventilation air. Follow all local and national building and safety codes when installing or modifying any HVAC system.

Required Component

10" Ductwork

FIGURE 11 – Alternate Closet Installation



DUCTING TO WHOLE HOME WITHOUT AN AIR HANDLER

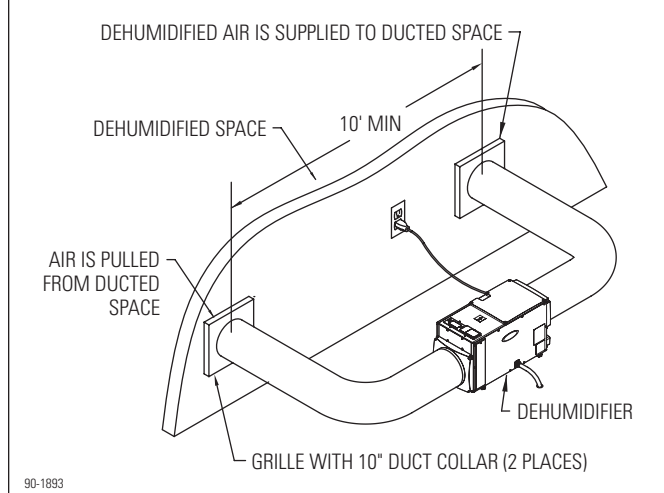
In this installation the dehumidifier is not ducted to the HVAC system.

Required Components

10" Ductwork

Grilles with 10" Duct Collars

FIGURE 12 – Stand Alone Ducted



TROUBLESHOOTING

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 control screen.

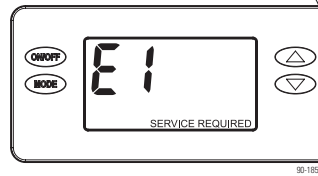


TABLE 1 – Diagnostic Codes			
Diagnostic Code	Failure Mode	Action	Reset
E1	Internal Humidity or Temperature Sensor Open or Shorted	<ol style="list-style-type: none"> 1. Check the connection between the sensor board and control board. 2. If connection okay, replace sensor board, Part No. 5460. 	Cycle Power
E2	High Refrigeration Pressure	<ol style="list-style-type: none"> 1. Verify that the fan works, and that there is nothing restricting air flow. 2. If the fault persists, call Technical Support. 	Cycle Power
E3	Model 76 Remote Control Communication Loss	<ol style="list-style-type: none"> 1. Check connections between Model 76 and dehumidifier control board. Terminals should be fully inserted and secured in the control board and Model 76 control terminals. 2. 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 control board. Turn the dehumidifier back on and increase the dryness level setting on the Model 76. If the dehumidifier turns on, the problem is with the wiring between the dehumidifier and control. 3. If the dehumidifier does not turn on, call Technical Support. 	Self-Correcting
E4	Insufficient Capacity	<ol style="list-style-type: none"> 1. Check the frost sensor connection at the power board. Terminal should be fully seated on the power board pins. 2. Remove the side access panel and verify that the sensor is secured to the suction line. 3. If the sensor is connected and secured to the refrigeration line proceed to the next step. 4. Reset the fault by cycling power to the dehumidifier. 5. Turn the humidity setting down (below room/home humidity level) to make a dehumidification call. 6. Allow the fan and compressor to run for approximately 10-15 minutes and then enter diagnostic test mode by simultaneously pressing the UP ARROW and MODE buttons for 3 seconds. The LCD will display the temperature measured by the internal sensor while also displaying AIR SAMPLING and ON, the humidity measured by the internal sensor while also displaying %RH and ON, and the frost sensor temperature while also displaying ON. Scroll through these values and by using the UP/DOWN arrow buttons. 7. Record values and call Technical Support. 	Cycle Power
E5	High Temperature Thermistor Failure	<ol style="list-style-type: none"> 1. Check the high temperature sensor connection at the power board. Terminal should be fully seated on the power board pins. 2. Remove the side access panel and verify the sensor is not damaged and connected to the refrigeration line coming from the compressor. 3. If the sensor is connected and secured to the refrigeration line, it may need to be replaced with Part No. 5456 – contact Technical Support to confirm. 	Cycle Power
E6	Low Temperature Thermistor Failure	<ol style="list-style-type: none"> 1. Check the low temperature sensor connection at the power board. 2. Remove the side access panel and verify the sensor is not damaged and connected to the suction line. 3. If the sensor is connected and secured to the refrigeration line, it may need to be replaced with Part No. 5455 – contact Technical Support to confirm. 	Cycle Power

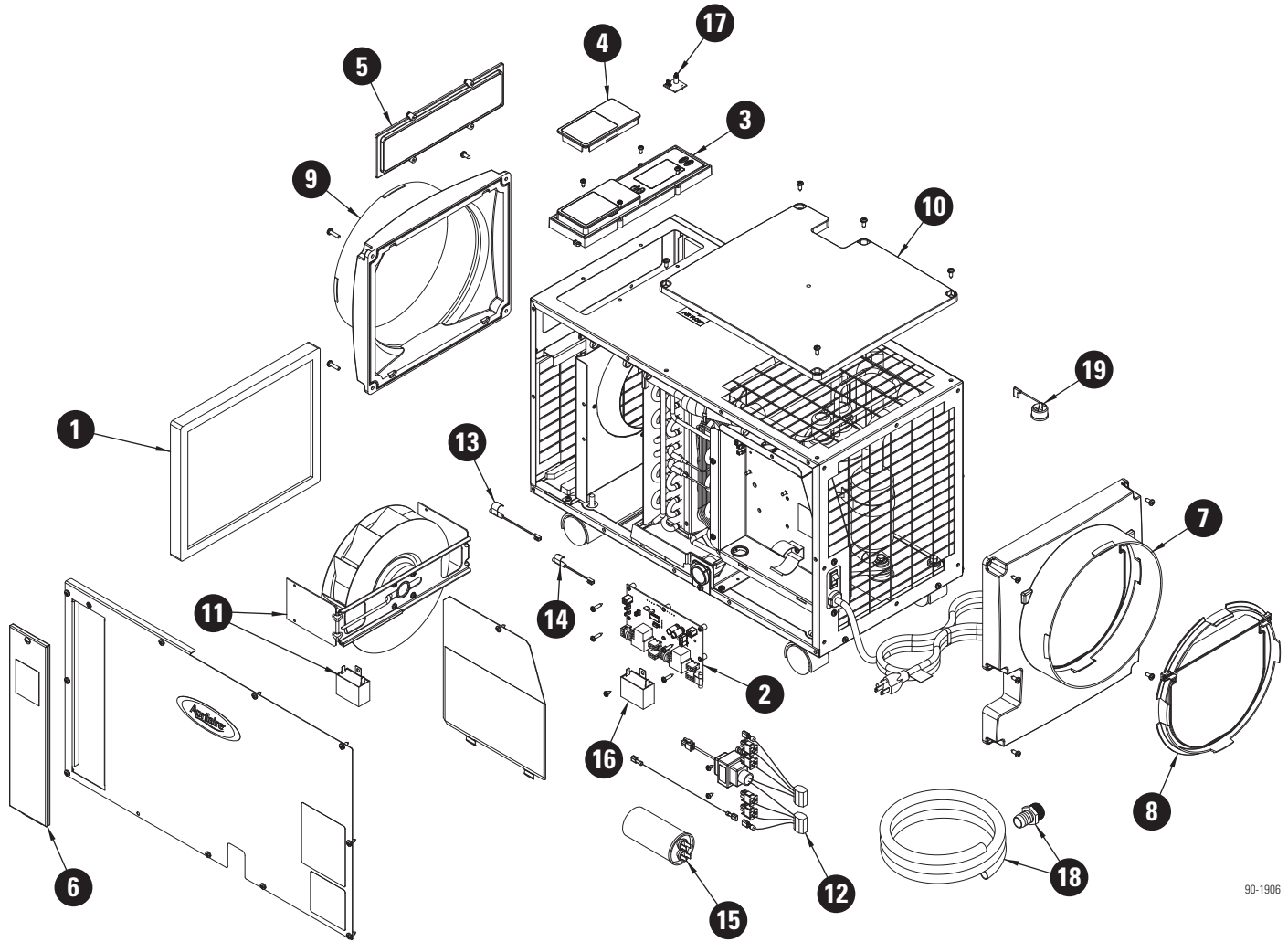
TABLE 1 – Diagnostic Codes (continued)

Diagnostic Code	Failure Mode	Action	Reset
E7	Float Switch Open	<ol style="list-style-type: none"> 1. Empty the condensate pan. 2. Check the float switch connection at the control board. 3. If not using a float switch, verify jumper is between float switch terminals on dehumidifier control board. 4. If the problem persists, replace the float switch. 	Self-Correcting
E8	Inlet Air Temperature Out of 50°F – 104°F range, or dew point below 40°F	<ol style="list-style-type: none"> 1. If temperature is out of range, no action, normal operation. 2. If air temperature is between 50°F–104°F with a dewpoint above 40°F, contact Technical Support. 	Self-Correcting

TABLE 2 – Troubleshooting Guide

Symptom	Possible Reason	Troubleshooting Procedure
Dehumidifier does not turn on/run.	No power to unit.	<ul style="list-style-type: none"> • Check that the dehumidifier is plugged in. • Check that the power switch is turned ON. • Check that the control is turned ON. • Check that the circuit breaker has not tripped.
Dehumidifier blower is running but with little or no airflow.	Pressure drop across dehumidifier is higher than 0.6" w.c.	<ul style="list-style-type: none"> • Check dehumidifier air filter and wash or replace. • Check for blocked duct work and clear. • Verify that the outlet collar with backflow damper is installed on the outlet side of the dehumidifier. • Check if backflow damper is blocked or stuck and remove obstruction
Dehumidifier blower is running but compressor is not.	Float switch open.	<ul style="list-style-type: none"> • If float switch installed, check connections at control board and empty condensate pan. • If no float switch installed check that the jumper is installed at the float switch terminals on the control board.
	Coil frosting.	<ul style="list-style-type: none"> • Lack of or reduced airflow. Check dehumidifier air filter and wash or replace. • Check that there is nothing blocking the inlet or outlet of the dehumidifier. • Inlet air conditions below 60°F. Increase the humidity setting.
	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 style="list-style-type: none"> • Verify all ductwork is properly sealed. • No action. The compressor will not run if inlet conditions are out of range.
Dehumidifier is not draining properly.	Drain line blocked or unit not level.	<ul style="list-style-type: none"> • Verify that the unit is level. • Check the drain line blockages and for a continuous downward slope.
Dehumidifier is producing hot air.	Normal function.	<ul style="list-style-type: none"> • Air is reheated across the condenser coil, resulting in a temperature rise between inlet and outlet.
The HVAC fan turns on unexpectedly.	Dehumidifier is sampling.	<ul style="list-style-type: none"> • The dehumidifier will turn on the HVAC fan during air sampling or as needed to meet the ventilation time.

SERVICE PARTS



90-1906

No.	Part Description	Part No.
1	Filter, 10" x 12" x 1" EZK	5443
2	Internal Control Board, Deh	5444
3	User Interface Assembly, Deh	5445
4	Wiring Access Door, AA Deh	5446
5	Hole Cover, UI Ctrl, Deh	5447
6	Door, Filter Access, AA Deh	5448
7	Outlet Duct Panel, Deh	5449
8	Backflow Damper, 10", Deh	5450
9	Inlet Duct Panel, AA Deh	5451
10	Cover, Outlet, AA Deh	5452

No.	Part Description	Part No.
11	Fan, 95pt Deh, with 12MFD Capacitor	5467
12	Wire Harness, Power, Deh	5454
13	Sensor, Low Temperature, Deh	5455
14	Sensor, High Temperature, Deh	5456
15	Capacitor, 45MFD, 370VAC, 95pt Deh	5458
16	Capacitor, 12MFD, 450VAC, 95pt Deh	5468
17	RH Sensor, Deh	5460
18	Drain Tube + Fitting	5665
19	Compressor Overload Switch, 95pt Deh	5548