

## AKD Outside Air Kit

This air kit has been tested for use with specific Hearth & Home Technologies fireplaces. Check with your local building code agency before you begin installation to ensure compliance with local codes, including the need for permits and follow-up inspections. If you encounter any problems regarding code approvals, or if you need clarification of any of the instructions contained here, contact your Hearth & Home Technologies dealer. For the dealer nearest you, please visit [www.hearthnhome.com](http://www.hearthnhome.com).

**Note:** An arrow (➡) found in the text signifies change in content.



### CAUTION



#### Sharp Edges

- Wear protective gloves and safety glasses during installation.

**Note:** Flexible duct ID4 (insulated) or UD4 (uninsulated) must be ordered separately.

Item	Description	Qty.
1	Outside Air Hood	1
2	Outside Air Collar	1
3	Outside Air Mounting Bracket	1
4	Outside Air Door (Left)	1
5	Outside Air Door (Right)	1
	Fastener Pack (8) Screws	1
	Cable Tie	2

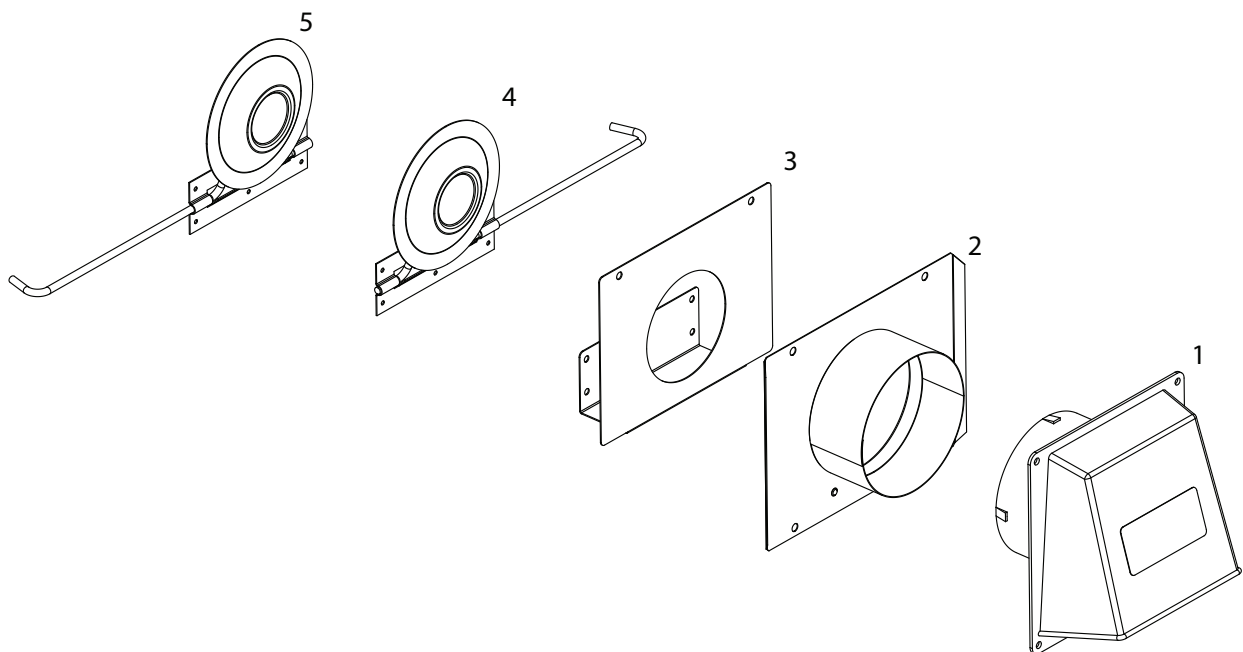


Figure 1 Parts

## A. Outside Air Inlet Location

1. Locate combustion air assembly at an exterior location which is not likely to be accidentally blocked in any manner. Locate assembly a min. of 12" above the snow line to prevent blockage by snow accumulation.
2. Never mount the combustion air inlet assembly in a garage or storage area where combustible fumes such as gasoline might be drawn into the fireplace.
3. Combustion air can be drawn from the crawl space under a house when an adequate supply of air is provided by open ventilation.
4. **CAUTION: Do not take combustion air from attic space or garage space.**
5. Locate air supply inlet at least 3' away from any appliance vent terminal.
6. Avoid extremely long runs and numerous turns in the duct leading from the firebox to the outside air inlet hood. These conditions increase the resistance to the free flow of air through the duct. *Refer to Figures 2 through 5 for methods of installing the outside air kit.*

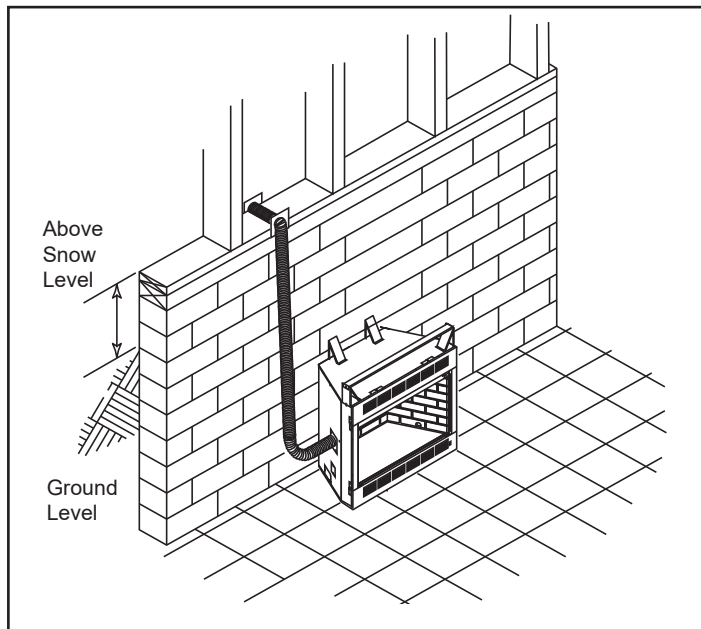


Figure 2 Basement Installation

**NOTE: Fireplace model in illustrations may not be representative of your appliance.**

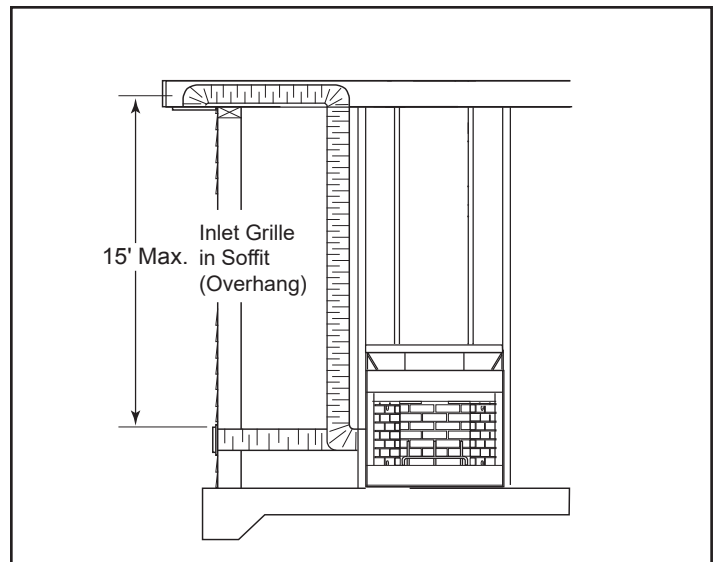


Figure 3 Concrete Slab Installation

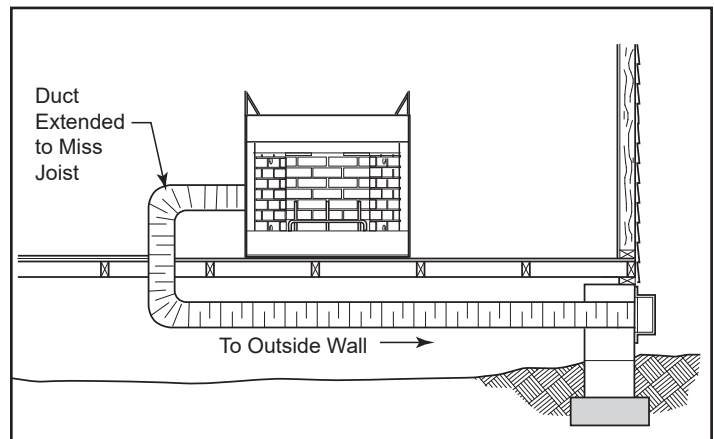


Figure 4 Installation Above Basement or Crawl Space

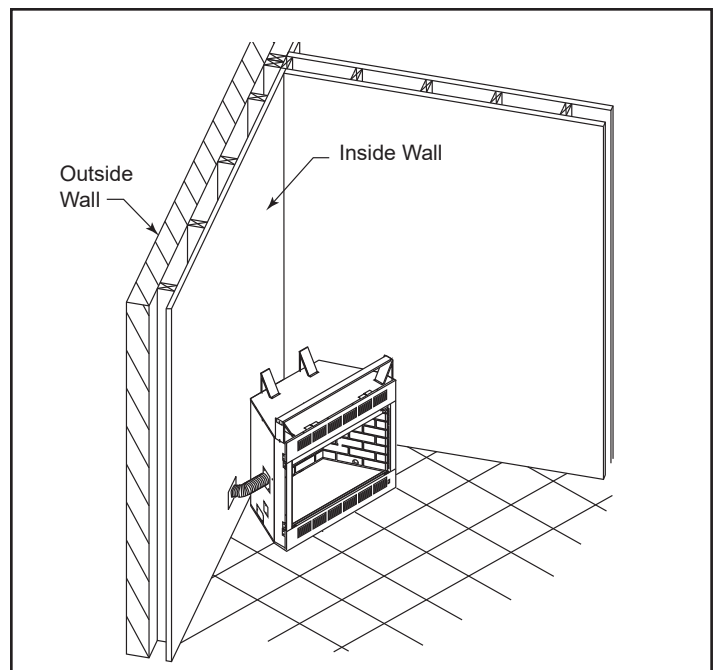


Figure 5 45° Corner Installation on Slab Floor

**Note:** We recommend you utilize the shortest duct run to optimize performance of outside air kit. The outside air kit inlet should be positioned in a manner that will not allow snow, leaves, etc. to block inlet. Additional duct may be required.

**WARNING**



**Fire Risk**

**Exhaust Fumes Risk**

Do not install outside air ducts such that the air may be drawn from attic spaces, basements or above the roofing where other heating appliances, fans and/or chimneys exhaust or utilize air.

When locating the firebox in a space projecting into a garage, the outside air must not be taken from the garage space. Exhaust products of gasoline engines are hazardous.



## B. Step by Step Installation

**Note:** The outside air kit can be installed on the left or right side of the firebox. If an outside air kit is desired on both sides, an additional kit will need to be purchased.

1. Determine which side of the firebox the outside air kit is to be installed on.
2. Remove the outside air knockout from firebox. See Figure 6.

**WARNING! Risk of Fire!** DO NOT remove the cover on side of firebox if the outside air will not be connected.



Figure 6

3. Attach the appropriate Outside Air Door (left or right) to the Outside Air Bracket as shown. See Figure 7.

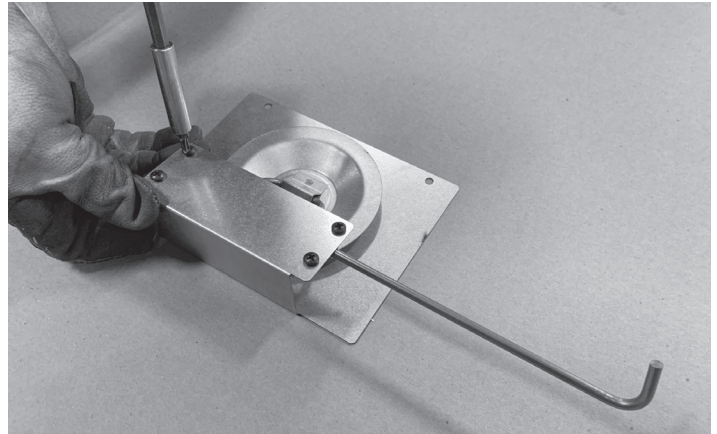


Figure 7

4. Insert the Outside Air Assembly through the firebox outer wrap. The rod should pass through the appropriate 1 inch diameter hole in the front of the firebox. See Figure 8 and 9.

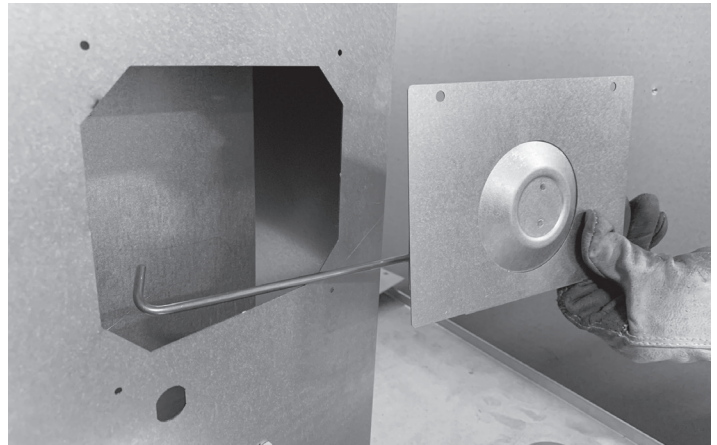


Figure 8



Figure 9

5. Align the Outside Air Assembly and Outside Air Collar with cutout in firebox outer wrap. Secure with (4) screws provided. Installing the top (2) screws first will aid in alignment. See Figure 10.

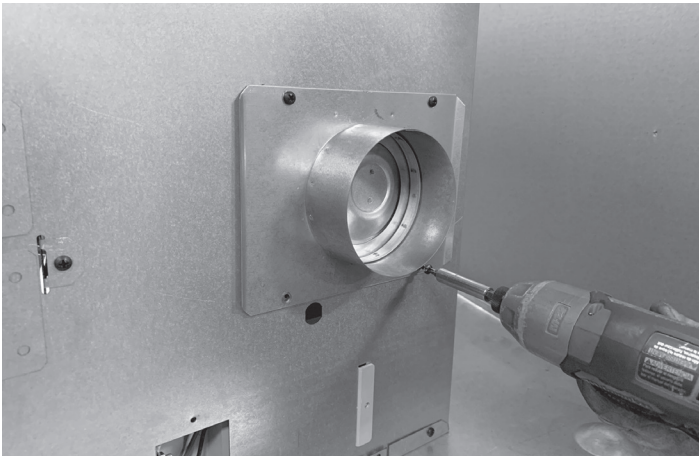


Figure 10




6. Install the directional label (provided) as shown and verify proper operation of the Outside Air Door. See Figure 11.



Figure 11

7. Mark and cut a 4 inch hole in the building side for air entry. This hole should allow for some framing (two sides) so the hooded air inlet may be nailed into position, flush with the building's outside.
8. Install Outside Air Hood and assemble flexible duct (not supplied) between the collar and the hood. Hearth & Home Technologies recommends using UL 181 Class 0 or Class 1 rigid flexible ducting.
9. Secure duct in position with the supplied wire ties.

**Note:** To guard against significant cold air infiltration through duct or other parts of system, check for light leaks with a flashlight and seal these with duct tape and/or insulation.

 <b>WARNING</b>	
	<b>Fire Risk</b>
	<b>Asphyxiation Risk</b>
Do not draw outside combustion air from:	
<ul style="list-style-type: none"><li>• Wall, floor or ceiling cavity.</li><li>• Enclosed space such as an attic or garage.</li><li>• Close proximity to exhaust vents or chimneys.</li></ul>	
Fumes or odor may result.	

<b>CAUTION</b>
Outside air inlet must be located to prevent blockage from:
<ul style="list-style-type: none"><li>• Leaves</li><li>• Snow/ice</li><li>• Other debris</li></ul>
Blockage may cause combustion air starvation.