

SOUND BAFFLE ASSEMBLY INSTALLATION INSTRUCTIONS

PURPOSE

The sound baffle assembly is designed to provide a reduction in fan noise created in the blower wheel. This installation of this sound baffle is optional. Review directions thoroughly prior to installing the new sound baffle assembly. Please contact the manufacturer of the water heater as shown in the instruction manual with any questions or for additional product support.

SOUND BAFFLE KIT PARTS LIST

The kit consists of the following items. If a part is missing, use the contact information in the instruction manual to acquire missing component(s).

- sound baffle assembly
- flexible tubing
- hose barb
- hex plug (installed on sound baffle assembly)
- instruction sheet

SOUND BAFFLE INSTALLATION

The sound baffle assembly is designed for both vertical and horizontal installations. The vertical installation does not require the additional hose barb and flexible tubing. However, the horizontal installation will require the hose barb and flexible tubing to release condensate buildup from the sound baffle. See instructions and diagrams that follow for a more detailed description.

Vertical Sound Baffle Installations (Recommended)

1. The sound baffle is designed to accept two inch PVC pipe into the adapters on both ends. The sound baffle can be installed to the piping from either side (there is no specific inlet or outlet). For optimum performance, install sound baffle as close as possible to the blower assembly.
2. Use standard PVC cement (not included with kit) and glue the two inch PVC pipe coming from the blower into the sound baffle.
3. Perform the same sequence on the PVC pipe coming from the exhaust side (vent terminal side) of the sound baffle.
4. Make sure the sound baffle and vent pipe is supported securely to a permanent fixture (stud or wall). Use standard support straps (not supplied with kit) that may be found at a local hardware store. Failure to properly support the sound baffle and the surrounding vent pipe could create a hazardous situation. DO NOT puncture any surface of the sound baffle.
5. Confirm that the hex plug is securely installed in the 1/2" fitting found on the center of the sound baffle pipe. It is imperative that the plug is secure and air tight to prevent any combustion gases escaping into the room. If the plug is not securely tightened, remove and reinstall using Teflon tape on the threads. Once installed along with the rest of the vent configuration, make sure to operate the unit through at least one heat up cycle to ensure there is no leakage around the plug or any joints of the sound baffle or vent pipe system.

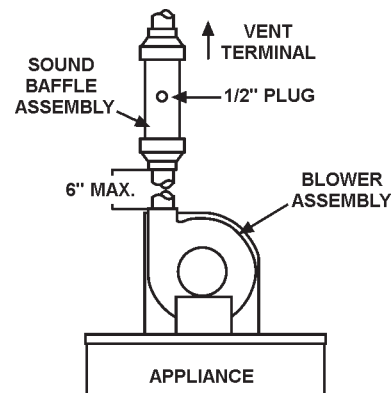


FIGURE 1: Typical Vertical Installation

Horizontal Sound Baffle Installations

1. The sound baffle is designed to accept two inch PVC pipe into the adapters on both ends. The sound baffle can be installed to the piping from either side (there is no specific inlet or outlet). For optimum performance, install sound baffle as close as possible to the blower assembly.
2. Use standard PVC cement (not included with kit) and glue the two inch PVC pipe coming from the blower into the sound baffle. MAKE SURE THE 1/2" FITTING IS ON THE BOTTOM SIDE OF THE SOUND BAFFLE ASSEMBLY. This will be used to run the condensate hose to a suitable drain. See typical vent installation in Figure 2.
3. Perform the same sequence on the PVC pipe coming from the exhaust side (vent terminal side) of the sound baffle.
4. Make sure the sound baffle and vent pipe is supported securely to a permanent fixture (stud or wall). Use standard support straps (not supplied with kit) that may be found at a local hardware store. Failure to properly support the sound baffle and the surrounding vent pipe could create a hazardous situation. DO NOT puncture any surface of the sound baffle.
5. Remove hex plug from the center pipe of the sound baffle. Locate the hose barb and install into the 1/2" fitting on the center of the sound baffle. Using Teflon tape on the threads, install hose barb into 1/2" fitting securely. It is imperative that the hose barb is secure and tight to prevent any combustion gases escaping into the room.
6. Locate flexible tubing. Slide one end of tube over the hose barb located on the center pipe of the sound baffle. The ridges on the hose barb should prevent the tube from sliding off, however, to ensure there are no leaks and possible dislocation from hose barb, use a wire tie or hose clamp (not supplied with kit) and secure.
7. Take the other end of the flexible tubing and form an 8 inch diameter circle approximately 3 feet down from the hose barb located in the sound baffle. To ensure that the circle (loop) maintains its shape, use two wire ties (not supplied with kit) to secure it.

8. Take the end of the tube at the bottom of the floor and route it to a suitable drain. This will provide an area where the condensate can drain without affecting the area around the appliance.
9. Once installed along with the rest of the vent configuration, make sure to operate the unit through at least one heat up cycle to ensure there is no leakage around the hose barb or any joints of the sound baffle or vent pipe system.

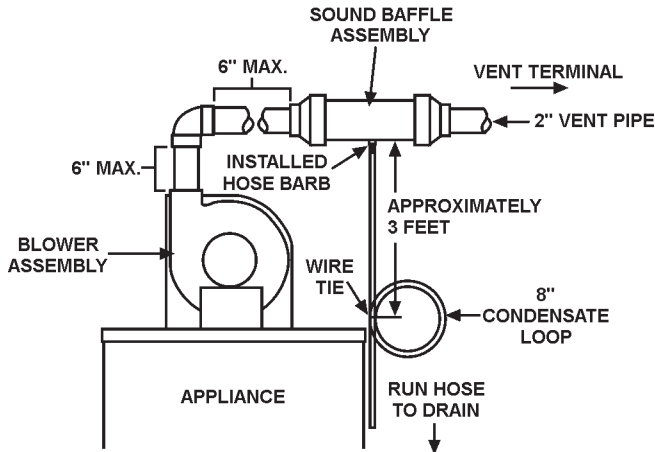


FIGURE 2: Typical Horizontal Installation

Installation for Sound Baffle with 3 & 4 inch Pipe for Vertical Vent
Some applications may require the use of 3 or 4 inch vent pipe for longer vent lengths. Please refer to the Figure 3 as you review these instructions. Refer back to the vertical sound baffle installation steps but with the following changes to the vent construction.

3 inch vent (Vertical Sound Baffle Installations)

The sound baffle is designed to accommodate only 2 inch vent pipe. The installer must use 2 inch vent pipe between the blower assembly and the inlet into the sound baffle. On the outlet side of the sound baffle, a short run of 2 inch vent pipe is required. Each of the short pieces of 2 inch pipe entering and exiting the sound baffle must not exceed 6 inches in length. From this point on, a 2 inch to 3 inch adapter may be used. From the 2 inch to 3 inch adapter, the installer may use up to 65 equivalent feet of pipe. See Figure 3 for typical installation.

4 inch vent (Vertical Sound Baffle Installations)

The sound baffle is designed to accommodate only 2 inch vent pipe. The installer must use 2 inch vent pipe between the blower assembly and the inlet into the sound baffle. On the outlet side of the sound baffle, a short run of 2 inch vent pipe is required. Each of the short pieces of 2 inch pipe entering and exiting the sound baffle must not exceed 6 inches in length. From this point on, a 2 inch to 4 inch adapter may be used. From the 2 inch to 4 inch adapter, the installer may use up to 128 equivalent feet of pipe. See Figure 3 for typical installation.

CAUTION

Remember to operate the unit for at least one heat cycle to ensure there are no air leaks in the vent joints of the sound baffle and the vent pipe system. Air leaks will allow flue gas by-products to disseminate into the room creating an unsafe environment and could cause illness, asphyxiation and/or even death.

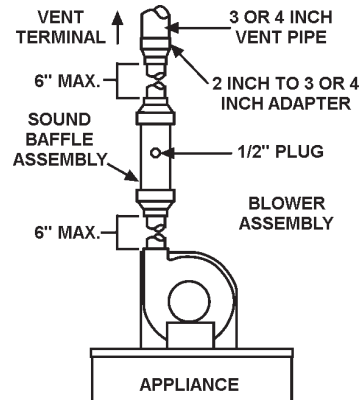


FIGURE 3: Typical Installation for Vertical Vent with 3 or 4 inch Pipe

Installation of Sound Baffle with 3 & 4 inch Pipe for Horizontal Vent
Some applications may require the use of 3 or 4 inch vent pipe for longer vent lengths. Please refer to the Figure 4 as you review these instructions. Refer back to the horizontal sound baffle installation steps but with the following changes to the vent construction.

3 inch vent (Horizontal Sound Baffle Installations)

The sound baffle is designed to accommodate only 2 inch vent pipe. The installer must use 2 inch vent pipe between the blower assembly and the inlet into the sound baffle. On the outlet side of the sound baffle, a short run of 2 inch vent pipe is required. From this point on, a 2 inch to 3 inch adapter may be used. From the 2 inch to 3 inch adapter, the installer may use up to 52 equivalent feet of pipe. This is 8 equivalent feet less than the original 60 equivalent feet specified with one elbow due to the 2 inch elbow instead of a 3 inch elbow required for the vent from the blower to the inlet of the sound baffle. See Figure 4 for typical installation.

4 inch vent (Horizontal Sound Baffle Installations)

The sound baffle is designed to accommodate only 2 inch vent pipe. The installer must use 2 inch vent pipe between the blower assembly and the inlet into the sound baffle. On the outlet side of the sound baffle, a short run of 2 inch vent pipe is required. From this point on, a 2 inch to 4 inch adapter may be used. From the 2 inch to 4 inch adapter, the installer may use up to 102 equivalent feet of pipe. This is 18 equivalent feet less than the original 120 equivalent feet specified with one elbow due to the 2 inch elbow instead of a 4 inch elbow required for the vent from the blower to the inlet of the sound baffle. See Figure 4 for typical installation.

CAUTION

Remember to operate the unit for at least one heat cycle to ensure there are no air leaks in the vent joints of the sound baffle and the vent pipe system. Air leaks will allow flue gas by-products to disseminate into the room creating an unsafe environment and could cause illness, asphyxiation and/or even death.

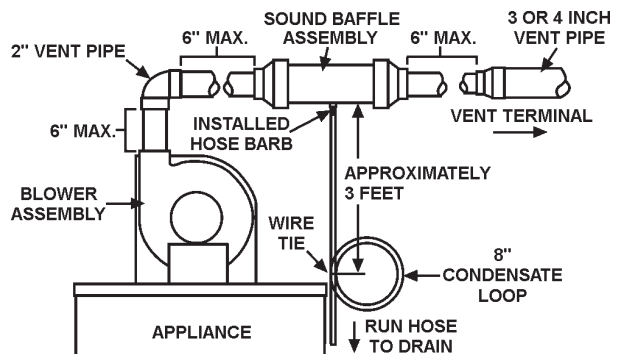


FIGURE 4: Typical Installation for Horizontal Vent with 3 or 4 inch Pipe