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REV. 9/07



MODEL FV1 PASSIVE FOUNDATION VENT INSTALLATION INSTRUCTIONS



SUGGESTED TOOLS AND MATERIALS

- Safety glasses with side shields
- Work gloves
- Tape measure
- 7/16" wrench
- Caulk gun
- Silicone caulk
- Level

IF REMOVING OLD VENTS

- Hammer
- Pry bar
- Mason chisel

MATERIALS INCLUDED

- Gray vent faceplate
- Screen door
- White sealer/winter door
- Black backer bar
- 2 - 9" Threaded rods
- 2 - 1/4" Lock nuts
- 2 - 1/4" Brass knurled nuts
- 2 - 1/4" Wing nuts

IMPORTANT: ALWAYS FOLLOW LOCAL BUILDING CODES.

INSTALLATION

IMPORTANT: ALWAYS FOLLOW YOUR LOCAL BUILDING CODES.

1. Measure width and height of opening to verify the FV1 faceplate will overlap the opening by at least ¼" or more on all four sides.
2. If replacing an existing vent, remove the mortar that secures the vent to the foundation using a hammer, flat pry bar and/or large masonry chisel.

CRAWL SPACE VENT INSTALLATION (DIAGRAM A)

1. Once it is verified that the faceplate fits flush with the sill plate and foundation, caulk the backside of the faceplate with ample silicone caulk to insure a quality seal.
2. Put one lock nut on each of the threaded rods.
3. Reach inside through the faceplate opening and screw each of the threaded rods through the inserts of the faceplate toward the outside of the foundation until the rods protrude at least 5/8".
4. Tighten the lock nuts on inside of threaded rod with 7/16" wrench. **DO NOT** over tighten.
5. Reach through faceplate opening with the backer bar in hand and place backer bar on threaded rods. Install the wing nuts on each of the threaded rods behind the backer bar and finger tighten until the bar is tight against the inside wall and begins to bend **slightly**. This will apply tension to allow for consistent sealing of the caulk that was applied to the back of the faceplate.
6. Place the screen door on the unit by aligning the screen door holes with the protruding ends of the threaded rods and hand tighten the knurled nuts to the screen door.

WINTER DOOR INSTALLATION (DIAGRAM B)

Store the winter door in a convenient place for heating season installation. To install the winter door, unscrew the knurled nuts and place the winter door behind the screen door. Replace the screen door and retighten the knurled nuts.

DIAGRAM A

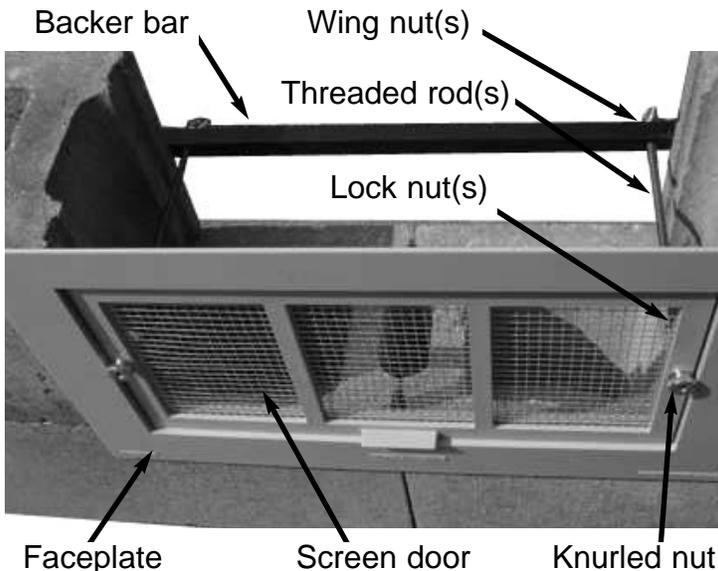
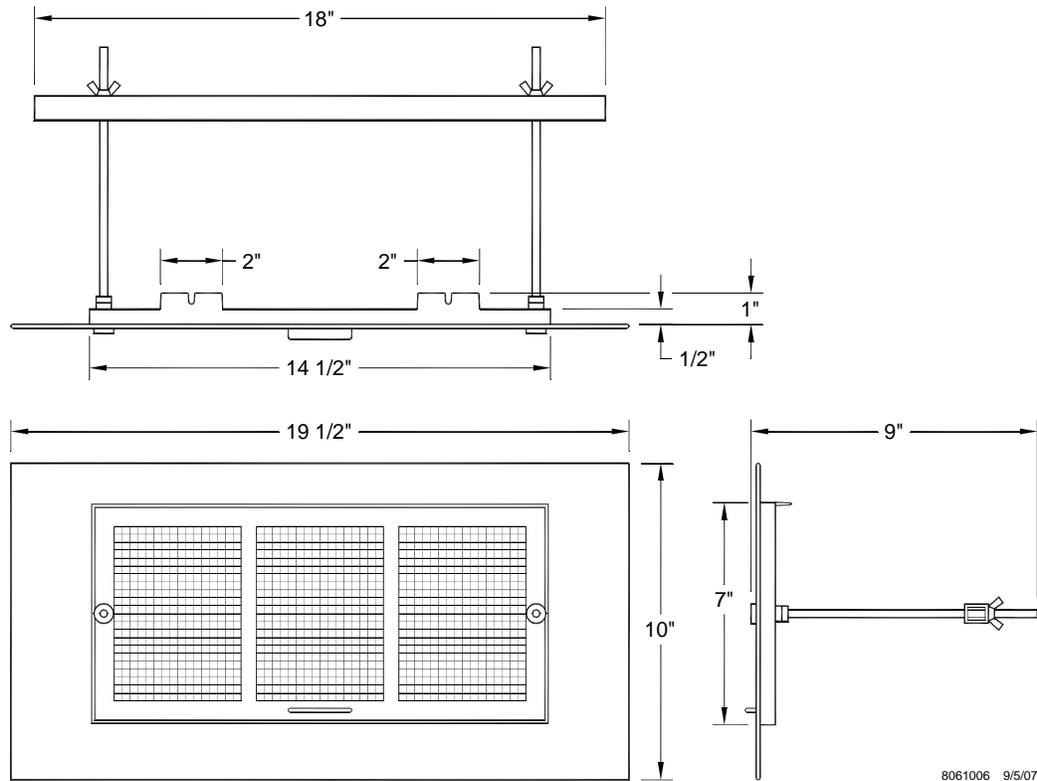


DIAGRAM B



DIMENSIONS



TROUBLESHOOTING INSTALLATION PROBLEMS

VENT FACEPLATE DOES NOT FIT UNDER SIDING

OPTION 1: Trim the FV1 faceplate. The backside of the faceplate has pre-scored lines to assist in trimming. This area can be trimmed using simple tools (utility knife, pliers, hacksaw) to customize the height of the faceplate. Width trimming is usually not needed, but may be done using cutting tools made to cut ABS materials.

OPTION 2: On some homes the siding needs to be pried away from the sill plate and the foundation by a 1/8" or 1/4" for the vent faceplate to slide under and up to the sill plate. To do this, one may use a pry bar or shims to pry the siding away from the framing and foundation. **Do so with caution. Siding can be very brittle.** Always secure all loosened areas once installation is complete. If the siding is pried away and the vent still will not fit check for nails, screws, or other obstructions.

SILL PLATE OVERHANGS THE FOUNDATION AND THE VENT DOES NOT FIT FLUSH AGAINST FOUNDATION

If the sill plate overhangs or is recessed from the foundation, use a 1x2, 2x2 or 2x4 piece of lumber cut to the length of the opening of the foundation and attach the lumber to the sill plate so that it is flush with the foundation. This now becomes the sill plate to which the faceplate can be mounted.

FACEPLATE IS FLUSH, THREADED RODS ARE IN THE FACEPLATE BUT THE THREADED RODS DO NOT GO THROUGH THE PRE-DRILLED HOLES IN THE BACKER BAR; THE WING NUTS CANNOT BE ATTACHED

The included threaded rods are 9" long. These will accommodate foundation block wall widths of up to 8". For buildings with thicker foundations, substitute the included rod with an 1/4" diameter rod cut to the length necessary for installation.

NOTE: At least 1" of clearance is needed beyond the width of the foundation wall in order for the vent screen, winter door, and backer bar to fit properly.

VENT OPENING IS BIGGER OR SMALLER THAN THE FV1 FACEPLATE

A frame can be built for openings too large for the faceplate or the faceplate can be cut to size for a smaller opening.

UNDERAIRE™ CRAWL SPACE VENTILATORS



Fan powered crawl space ventilation quickly reduces moisture helping to protect both home and occupants.



MODEL V1

One fan and small faceplate for ventilation openings through brick foundations. (Requires switch or dehumidistat to activate. Multiple ventilators may be controlled by a single switch or dehumidistat). Includes thermostat.



MODEL V1D

One fan and large faceplate sized for ventilation openings through block foundations. Includes thermostat, dehumidistat and pre-wired 6' power cord.



MODEL V2D

Two fans and large faceplate sized for ventilation openings through block foundations. Includes thermostat, dehumidistat and pre-wired 6' power cord.

