

**INSTALLATION INSTRUCTIONS FOR
ACCESSORY COMBUSTION AIR INLET FILTER KIT FOR ULTRA HIGH EFFICIENCY
WATER HEATERS (PART# 239-47330-00)**

KIT CONTENTS:

PART NUMBER	DESCRIPTION
239-47248-00	COMBUSTION AIR INLET FILTER
239-47270-00	FILTER HOUSING (4" PVC PIPE)
238-47333-00	INSTALLATION INSTRUCTIONS FOR FILTER KIT.

FIELD SUPPLIED PARTS:

FLEXIBLE PLUMBING CONNECTOR FITTING (FERNCO 1056-43 or 1056-44) OR EQUIVALENT (4" DIAMETER X INTAKE VENT PIPE DIA.)

PVC CEMENT

PIPE CLAMPS AND HANGERS

TOOLS NEEDED: Hack saw, screwdriver

The combustion air inlet filter kit is designed to filter dust and debris from the combustion air to reduce burner clogging in dusty environments.

WARNING!

THE FILTER KIT WILL NOT ELIMINATE AIRBORNE CONTAMINANTS OR POLLUTANTS.

The filter is sized to fit inside a 4 inch diameter PVC pipe (supplied). For installations using 4" PVC vent size, a straight 4" x 4" flexible plumbing pipe connector (Fernco 1056-44 or equivalent) will be required to clamp over the outside of the filter flange and PVC pipe and connect to the existing venting system. If the intake venting pipe is 3" diameter, then a 4" to 3" flexible plumbing pipe connector (Fernco 1056-43 or equivalent) will be required. This will enable the pipe to be disconnected for filter inspection and cleaning.

CAUTION!

DO NOT CEMENT THE FILTER END OF THE PIPE TO THE VENTING SYSTEM. USE ONLY A FLEXIBLE PLUMBING CONNECTOR WITH CLAMPS SO THE FILTER CAN BE REMOVED FOR CLEANING AND SERVICING. FOLLOW THE INSTALLATION INSTRUCTIONS INCLUDED WITH THIS WATER HEATER FOR SPECIFIC REQUIREMENTS ON THE VENTING SYSTEM INSTALLATION.

PRE-INSTALLATION

1. Locate the air inlet filter as close as practical to the water heater. The filter may be installed in either a horizontal or vertical position to suit the installation of the air intake venting system. The filter will need to be inspected and cleaned or replaced periodically, so be sure the filter is located where it can be accessed for servicing.
 2. If the installation uses indoor air from the utility room for combustion, then attach the filter pipe as close as practical to the water heater. Install a flexible plumbing connector over the filter end to secure and seal the filter in place. Be sure there is adequate combustion air available in the room. Refer to the installation instructions supplied with this water heater and local codes.
 3. Determine a suitable location for the filter and mark the section of intake air venting that is being replaced by the air inlet filter kit. For reference, the supplied 4" PVC is 10 ½" in length. Remember that you may need to remove more material to allow for the use of transition fittings.
 4. A flexible plumbing fitting (Fernco 1056-43 or 1046-44 or equivalent fitting) is required. Be sure to attach pipe clamps or hangers before and after the filter location to provide adequate support for the intake pipe.
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INSTALLATION

1. Turn off the water heater.
2. Cut the marked air intake pipe with a hacksaw or sawsall. Be sure that PVC shavings are removed and cleaned from the area prior to assembly of the inlet filter kit.
3. Install the coupling or reducer on the PVC closest to the water heater and the flexible plumbing connector on the filter end (see illustration).
4. Attach the filter pipe to the coupling and plumbing connector **with the arrow toward the water heater**. Refer to the illustration.
5. Tighten flexible clamps.
6. Turn on the water heater. Verify proper operation.

WARNING!

BE SURE THE ARROWS ON THE FILTER PIPE LABEL ARE POINTED TOWARD THE WATER HEATER. A FLEXIBLE PLUMBING CONNECTOR MUST BE ATTACHED OVER THE WIDE END OF THE FILTER CONE TO CONNECT TO THE AIR INTAKE PIPE TO ALLOW SERVICING OF THE FILTER.

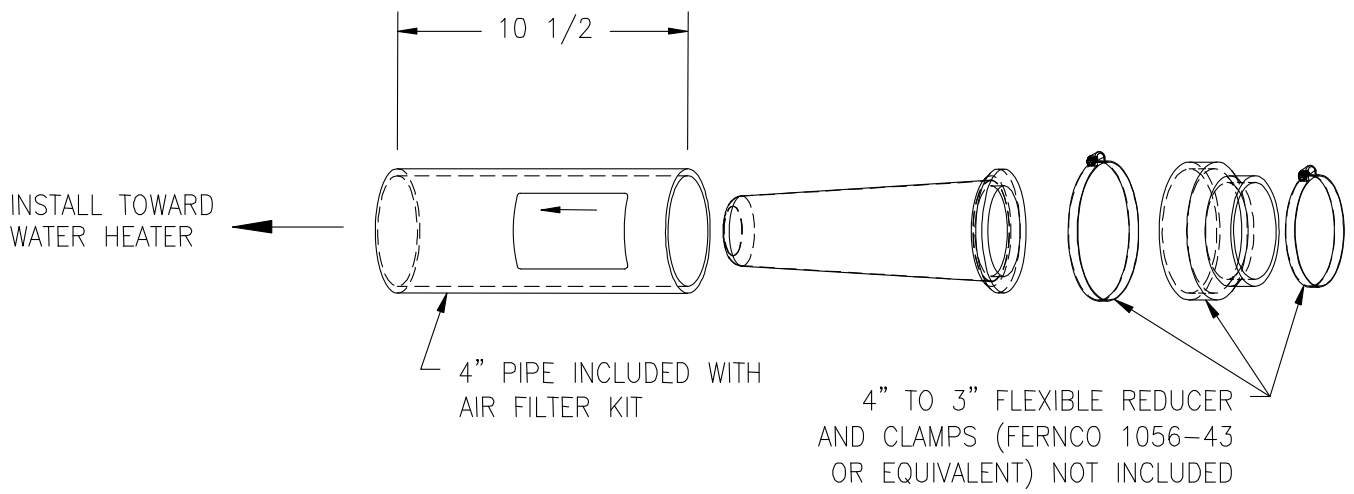
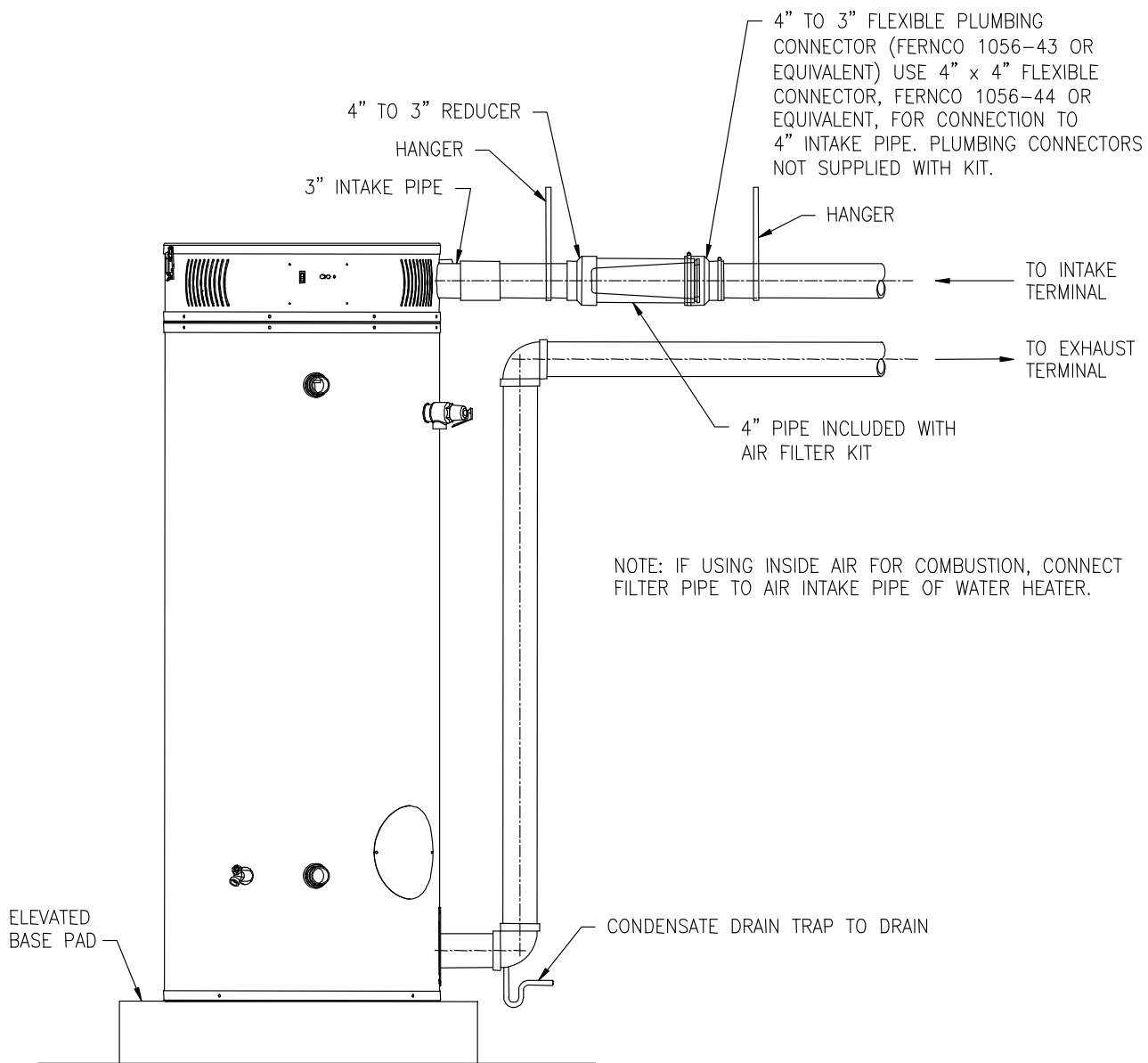
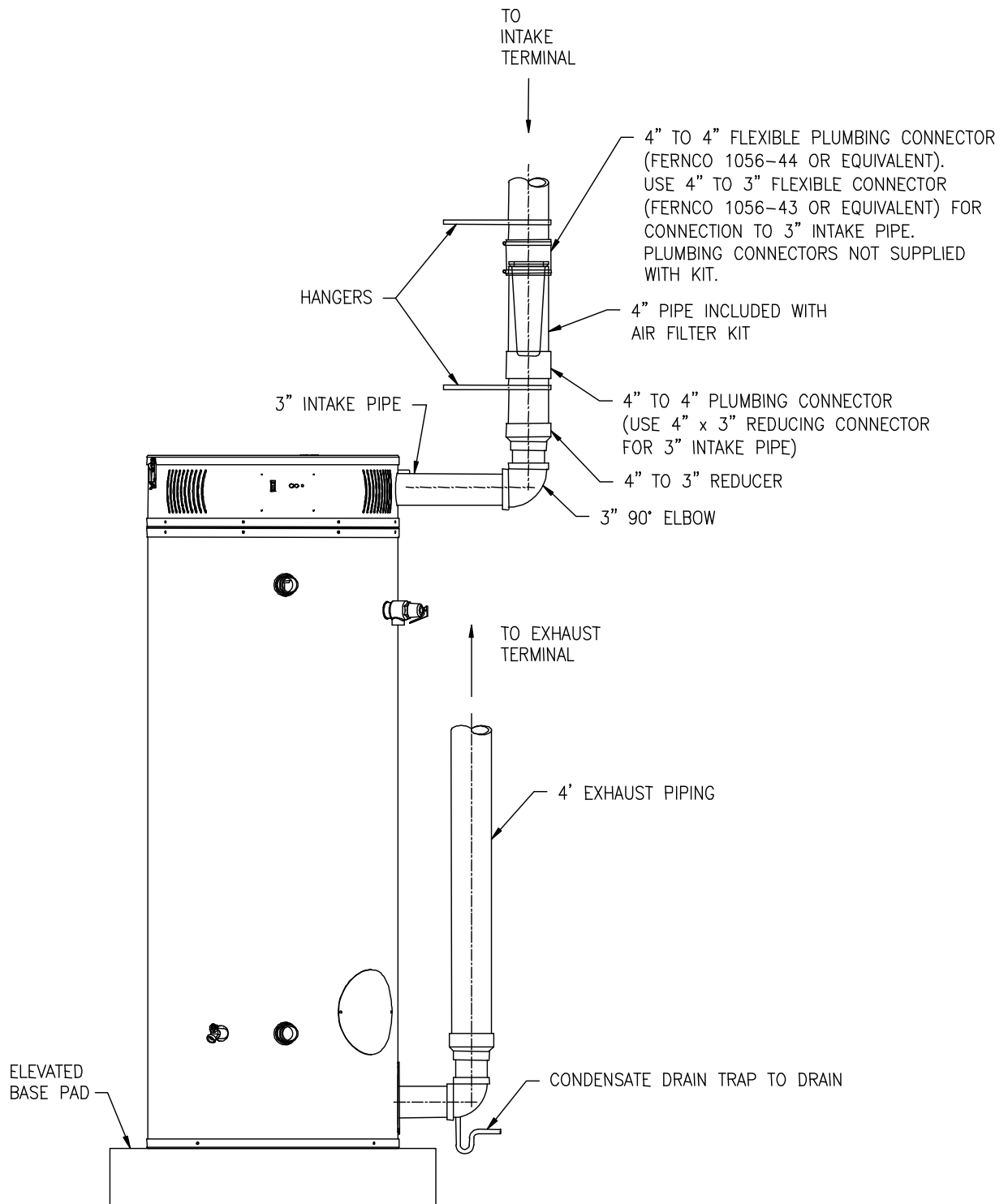


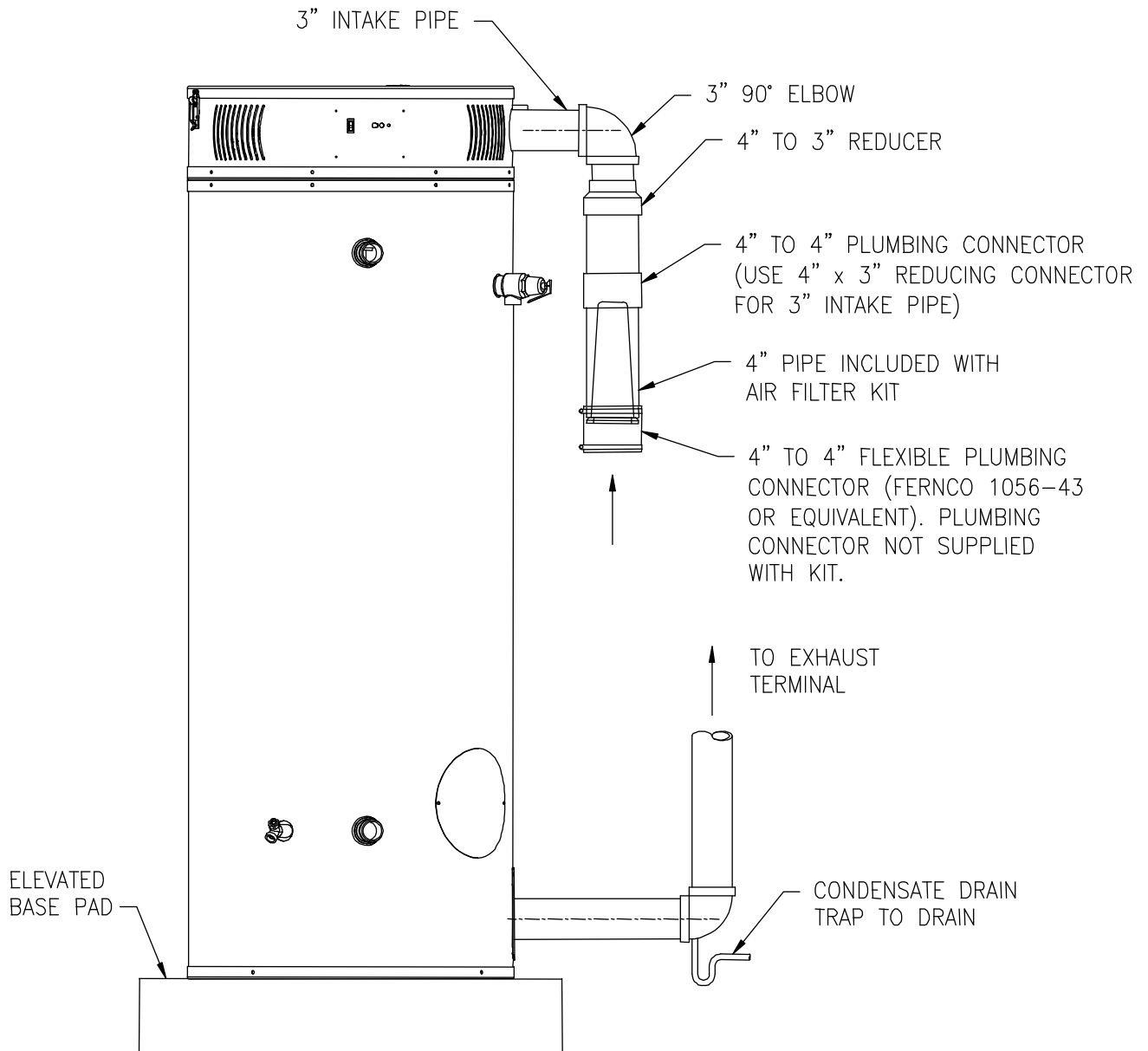
ILLUSTRATION OF AIR FILTER KIT



HORIZONTAL AIR FILTER INSTALLATION
(3" PVC SHOWN)



VERTICAL AIR FILTER INSTALLATION
(4" PVC SHOWN)



INSIDE AIR FILTER INSTALLATION
(3" PVC SHOWN)

MAINTENANCE

CAUTION!

THE FILTER WILL REQUIRE PERIODIC INSPECTION, CLEANING, OR REPLACEMENT FOR PROPER OPERATION OF THE WATER HEATER. FAILURE TO CLEAN OR REPLACE A DIRTY FILTER WILL CAUSE THE WATER HEATER TO MALFUNCTION AND MAY DAMAGE COMPONENTS. INSPECT AND CLEAN AT REGULAR INTERVALS.

1. Inspect the filter at regular intervals for dirt build-up on the element. How often the filter needs cleaning will depend upon the environment and the location of the air intake terminal.
2. To inspect the filter, turn off the water heater and loosen the clamps on the flexible pipe connector boot connecting the filter pipe to the intake vent pipe. Pull apart the filter pipe from the air intake pipe. Remove the filter.
3. Hold the filter element up to the light and inspect the screen for clogging from dirt and debris. The filter element may be vacuumed or washed in warm soapy water. If the filter is deformed, does not clean easily, or has holes, replace the element. Dry the filter element before reinstalling.
4. Reinstall the filter pipe with the arrow pointed toward the water heater (direction of intake air flow). Reattach the flexible pipe connector and tighten the clamps.
5. Turn on the water heater and verify proper operation.

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