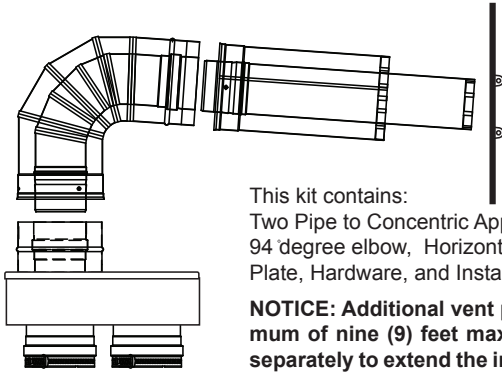


Tankless Water Heater 3"/5" Concentric Direct Vent Horizontal Vent Kit Installation Instructions



This kit contains:

Two Pipe to Concentric Appliance Adapter,
94 degree elbow, Horizontal Termination, Trim
Plate, Hardware, and Installation Instructions.

NOTICE: Additional vent piping, up to a maxi-
mum of nine (9) feet max, can be purchased
separately to extend the installation of this kit.

The Sealed Combustion Horizontal Vent Kit (RTG20197) is designed for use
with ONLY the following models:

RTG-74DV*

RTGL74DV*

PH-28R DVS*

GT-199DV*

RUTG-74DV*

RUTGL74DV*

PH-28C DVS*

RMTG-74DV*

RMTGL74DV*

* P - suffix for LP Gas

PTG-74DV*

ECO200DV*

* N - suffix for Natural Gas

**It is very important that all persons who are expected to install, operate
or adjust this vent system and/or water heater read these instructions
along with those instructions provided with the tankless water heater.**

This instruction will only cover the installation of the Metal-Fab, Inc., Sealed
Combustion Horizontal Vent Kit to the tankless water heater. Refer to the
Owner's Use and Care Manual provided with your Direct Vent Tankless Water
Heater for additional installation considerations and directions.

Unpack the Horizontal
Vent Kit, inspect all parts
for damage, and make
sure none of the parts
are missing. Contact the
supplier if there are parts
missing.



**WARNING : IMPROPER INSTALLATION OF VENTING, OR FAILURE TO FOLLOW ALL INSTALLATION
INSTRUCTIONS COMPLETELY, CAN RESULT IN PROPERTY DAMAGE AND/OR DEATH.**



**WARNING: SHEET METAL SCREWS ARE FOR OUTER WALL ONLY. NEVER USE SCREWS, RIVETS
OR OTHER FASTENERS TO PENETRATE THE INNER PIPE WALL.**



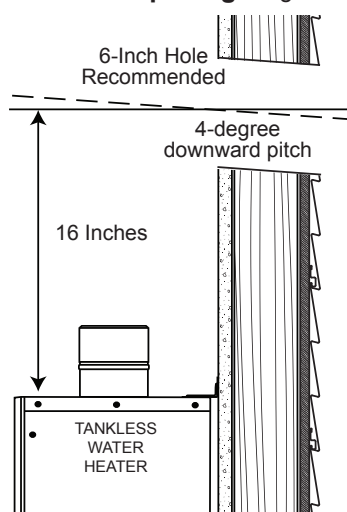
**NOTICE: THIS KIT CONTAINS SHEET METAL PARTS, WHICH MAY HAVE VERY SHARP EDGES.
USE LEATHER GLOVES WHEN HANDLING VENT COMPONENTS.**

Installation Location – After
choosing the installation location
for the water heater, see the Use
and Care Manual provided with
the tankless water heater for in-
formation and clearances, mount
the water heater to the wall as
instructed.

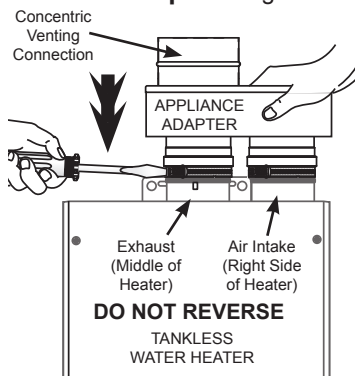
When cutting the hole, cover the
vent of the water heater to pre-
vent any debris from falling into
the flue. Remove this cover prior
to completing the installation

Measure up 16 inches from the
top of the water heater and cut
a 6-inch hole (recommended)
through the wall, with a slight or
4-degree pitch down to the out-
side. See Figure 1.

Location Opening - Figure 1



Install Adapter - Figure 2



Adapter Installation – Apply a
light amount of silicone lubricant
to the silicone seals to help the
adapter fit on the water heater.
Align the adapter with the con-
centric vent pipe and press it
down until adapter bottoms out.
See Figure 2. Attach adapter
to the tankless water heater by
tightening each of the two clamps
on the four (4) inch vent connec-
tors.

**NOTICE: THIS ADAPTER MUST BE INSTALLED
WITH THE TOP CONCENTRIC VENT OPENING
DIRECTLY ABOVE THE CENTER VENT ON THE
WATER HEATER, AS SHOWN IN FIGURE 2. IN-
STALLATION OTHERWISE WILL CAUSE IMPROPER
OPERATION OF THE WATER HEATER.**



**DO NOT ATTEMPT TO CUT THIS VENTING MATERIAL.
CUT SECTIONS WILL NOT SEAL AND COULD CAUSE
IMPROPER OPERATION OF THE WATER HEATER.**

CONCENTRIC VENT JOINT ASSEMBLY

Connections between vent and fittings are male/female type. The inner duct
is sealed with an integral seal gasket and the joint is mechanically secured
via the overlapping outer wall of the double wall pipe.

Joints are assembled per the
following steps:

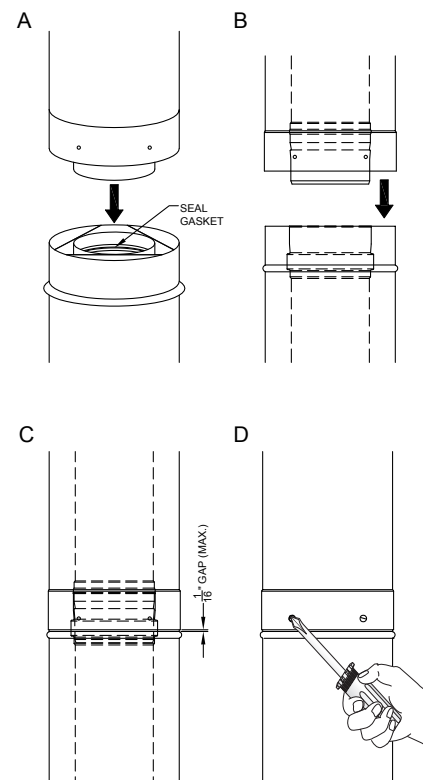
Joint Assembly - Figure 3

A. Before assembly, observe
that the seal gasket is located
within the female inner pipe
joint. Locate next pipe or fitting
with male inner pipe joint and
insert to begin engagement
of inner pipe joint. To help the
joints slide together, apply a
light amount of silicone or water
-based lubricant to the silicone
seals.

B. As the joint further
engages, align the male and
female ends of the outer wall of
each pipe so that they begin to
engage as the pipes are further
pushed together.

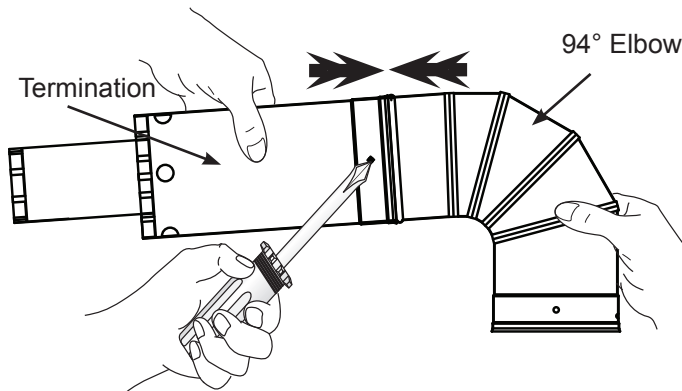
C. Pipe joint is fully engaged
when the female end of the
outer pipe comes in contact (or
is at least within 1/16th inch) to
the base of bead on the male
end of the adjoining vent pipe.

D. When possible look within
the pipe assembly to verify
that no sign of seal gasket is
showing. Complete the joint
assembly by securing the joint
using #8 x 1/2" sheet metal
screws (3 per joint) at each pre-
punched hole on the female
end of each joint.



Horizontal Termination Installation – Attach the horizontal termination to the 94 degree elbow per the joint assembly instructions with a weep hole facing the bottom. Secure the termination to the elbow with the three screws provided. See Figure 4.

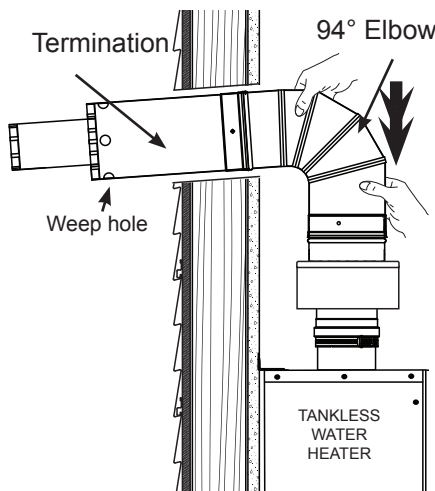
Install Horizontal Termination to Elbow - Figure 4



Horizontal Termination and Elbow Installation - Align the elbow and termination vent assembly through the hole in the wall. Align and press the elbow down onto the appliance adapter. Completely seat and secure the connection per the joint assembly instructions. A slight rotation of the joint may be necessary to line up the venting. The venting should be square and sealed at final assembly.

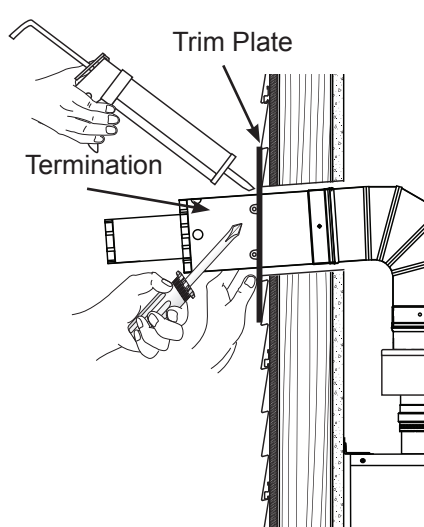
The weep holes around the outside of the termination must be at least 1 inch from the finished wall of the building. See Figure 5.

Install Elbow - Figure 5



Trim Plate Installation - Attach the trim plate to the exterior wall and horizontal termination with hardware provided. Apply a bead of silicone sealant completely around the termination where it penetrates the trim plate and where the trim plate meets the wall to create a liquid tight assembly, which will prevent rain and snow entry into the wall construction. See Figure 7.

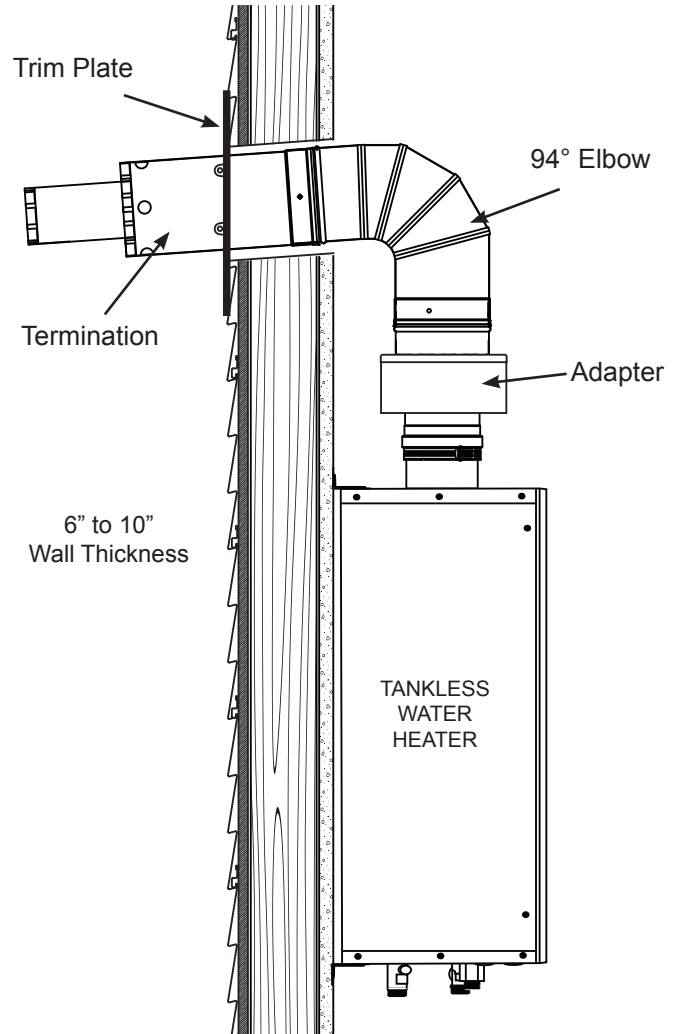
Install Trim Plate - Figure 6



Clearance Considerations - The concentric vent piping and fittings are certified for a clearance of zero (0) inches to combustible surfaces.

Completed Vent Kit Installation

Installation is complete. Refer to Owner's Use and Care Manual provided with your Direct Vent Tankless Water Heater for initial operation checks to ensure proper operating conditions.



This kit can be extended up to a Maximum of nine (9) feet of vent pipe length **DO NOT USE MORE THAN NINE (9) FEET OF ADDITIONAL VENT PIPING WITH THIS KIT.** If more than nine (9) feet of vent pipe is used, it could result in the improper operation of the tankless water heater. NOTICE: If a vent length of more than two (2) feet straight up from the top of the water heater is needed, a condensate collector must be installed at the water heater.

Do not attempt to connect any other vent material from another manufacturer or brand to this vent kit. Do not attempt to extend the four (4) inch vent connections to the tankless water heater, this adapter must be securely and directly attached to the tankless water heater.

The material used in this vent kit has been approved by the water heater manufacturer.



DO NOT ATTEMPT TO USE ANY VENTING BY ANOTHER MANUFACTURER WITH THIS VENT KIT.

If you need service refer to these instructions and the instruction manual that came with the water heater for additional information. Should you have any questions about your new water heater or vent kit, or if these require adjustment, repair, or routine maintenance, it is suggested that you first contact your installer, plumbing contractor or previously agreed upon service agency. In the event the firm has moved, or is unavailable, refer to the telephone directory, commercial listings or local utility for qualified service assistance. Should your problem not be solved to your complete satisfaction, you should then contact the Manufacturer's National Service Department. Refer to the section titled "IF YOU NEED SERVICE" in the Use and Care Manual provided with your water heater(s) for contact information and procedures.