

DIRECT VENT

Installation Instructions

Co-Linear



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IMPORTANT: Read these instructions thoroughly before beginning your installation. Installations that do not conform to these instructions will void the warranty and increase the risk of a vent related fire. Please before any work is performed, please check with local authorities if a permit is needed for the installation of the liner system.

WARNING: Do not vent solid fuel or oil burning appliances or any system that could be converted to those fuels. Trans Continentals Direct Vent Co-Linear system is a certified venting system designed to be used only with certified direct vent gas fired appliances.

RULES OF SAFETY AND TOOL CHECKLIST:

Always maintain required clearances to combustible materials as required by the manufacturer's installation instructions.

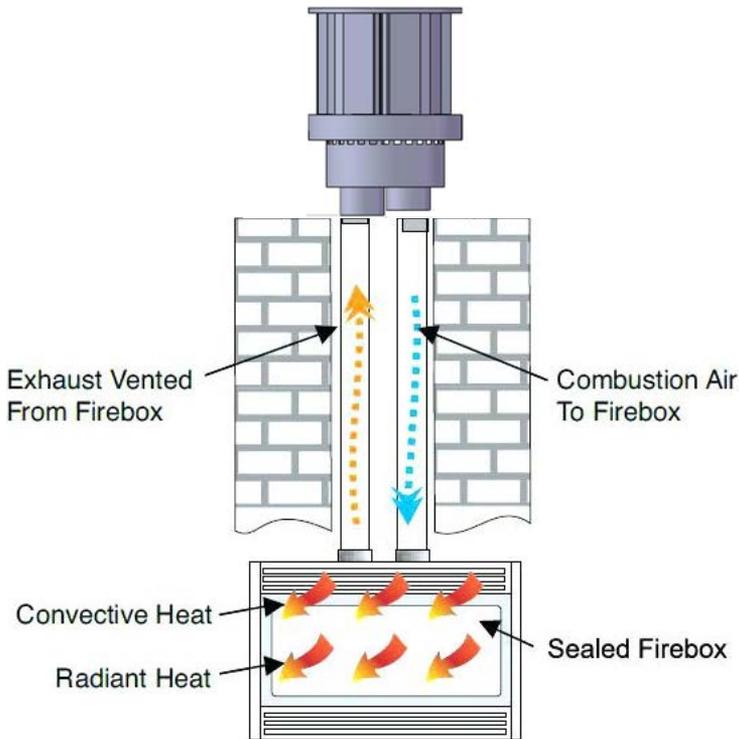
Installation of damaged parts, modified parts, or parts not approved by **TCE** will result in loss of warranty and poses a serious fire, health or other safety hazards.

Tools and equipment you may need for your installation: Eye protection, gloves, tape measure, extension cords, marking pencil, nails, stud sensor, square, circular saw, hand saw, drill, drill bits, keyhole saw, ladder, level, pliers, caulking gun, hi temperature silicone / sealant, hammer, screwdrivers, screws, plumb bob, cold chisel.

1. Wear gloves.
2. Wear safety glasses.
3. Electrical tools must be grounded.
4. If a ladder is required, it must be in good condition, installed on a firm surface and leveled.
5. When cutting a wall, floor or ceiling, be careful not to damage wiring, gas or water lines. If these elements need to be relocated, work should be done by a qualified professional.

PARTS LIST

PART	DESCRIPTION	CODE
3"x35' Aluminum Flex	Aluminum flex. Made from 3003 alloy	ALLI0335
3/4" SS Screws	3/4" hex self tapping stainless steel screws	SCREW3/4H
3" Connector	3" Galvanize Co-Linear Connector.	CLGV03
2"-4" SS Clamp	2"-4" Stainless Steel hose clamp	SSCLAMP04
3"-3" Termination Cap	3"-3" Aluminum Co-Linear termination cap.	ALRC0303

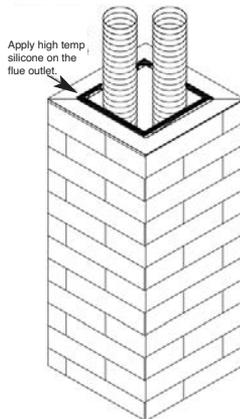


This application is for appliances (normally gas inserts) with two co-linear outlets. All TCE DirectVent masonry termination caps should only be used with a listed flexible liner. Refer to the manufacturer's installation instructions for approval.

NOTE: The inside of the masonry chimney must be big enough to accommodate the two flex liners (typically 7" I.D. 6"x6") The existing chimney also needs to be completely cleaned of soot and creosote. Have the masonry chimney inspected by a qualified technician.

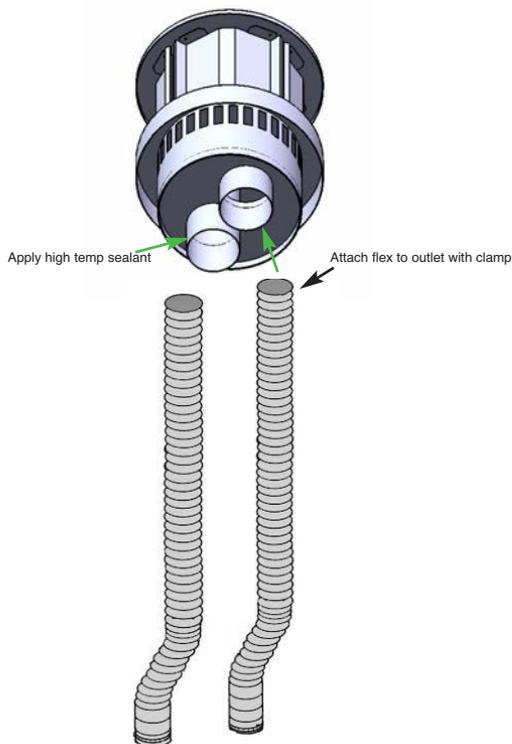
1. Determine the length of flex liner needed. Measure the distance between the top of the chimney and the gas appliance. cut the two lengths of listed flex pipe to this length. the flex should already be extended to its nominal length. If the liner is unidentified, mark one of the two liners at the top and bottom as either exhaust or intake to prevent confusion later.

2. Prior to inserting the flex liners, prepare the masonry flashing. If the flashing / top plate is larger than the top of the chimney, then cut and fold it as needed to fit. Do not seal it in place yet. In some cases a flashing / top plate might not be necessary.



3. Slide the two flex liners down the chimney one by one. Be careful when you pass through the damper not to damage the flex. If you have to join two lengths of flex liners together, you will need to order two co-linear adaptors (CLGV03).

4. Attach the two flex liners to the outlets on the termination cap with the two clamps provided. High temperature sealant is recommended for the liner that will be used for exhaust.

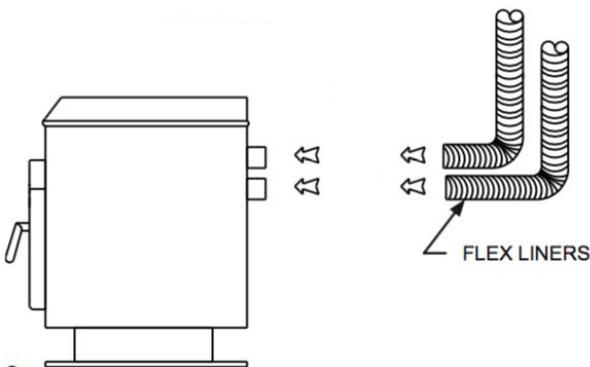


5. Secure the baseplate to termination cap to the masonry chimney with sealant and masonry bolts to prevent water infiltration.

6. Depending on the type of connection your appliance has, it will require you to connect the two flex liners directly to the appliance or to install the co-linear connectors.

7. Line up the flex liners with the two outlets on the gas appliance. Ensure that the flex liner connected to the flue side of the termination is connected to the flue of the appliance. Use high temperature sealant and stainless steel clamps provided to seal the joint of the flue portion. Clamps are required for the air intake side. Do not let the flex liner sag below the level at which it is connected to the gas appliance or adapter. This could allow hot gas to become trapped and potentially become a fire hazard. The flex liner path should always be sloped up toward the termination cap.

8. Move the gas appliance to its final position.



NOTES:

When installing TCE's aluminum liner in a pre-existing chimney, the maximum height of the liner should not exceed 50' (15M). It is not recommended to combine two separate liners via any kind of adaptor. The termination cap should be applied at the top of the masonry chimney and be clear of any type of roof slope, satellites or any other obstacle that could cause blockage or improper venting in regards to rain or snow build up.

It is recommended to have your chimney liner swept by a certified chimney sweep twice a year. Once before the season starts to make sure no animals, or insects have managed to enter the liner causing improper venting. The second is at the end of the heating season to make sure all creosote build up is properly removed.

In certain areas a bird screen may be required or mandatory. Please consult with local authorities before installing such as the liner system may be more susceptible to blockage through freezing moisture areas of low ambient temperature.

We do not recommend ovalizing your aluminum liner. This may result in poor venting results. Having the correct size liner is extremely important for the venting of low temperature flue products in geographical areas experiencing sustained low ambient temperatures. Do not use a liner smaller than the size given in the appliance manufacturer's instructions.

It is recommended that prior to installation of the lining system, the chimney be thoroughly cleaned and checked for cracked, loose, or missing bricks, mortar, or other materials that could inhibit correct installation.

Always check that the clearances between the masonry chimney exterior and combustible materials are in accordance with applicable building code requirements. After proper inspection is performed, if the existing system is found not to be in compliance with applicable building codes or manufacturers installation instructions, the liner shall not be installed until appropriate action is taken in order to bring the chimney or vent into compliance with local building codes or manufacturer's instructions.

The appliance connected to the lining system must not have a flue outlet larger than the liner at its smallest point unless a qualified person has sized the liner to suit the appliance. Improper resizing and bends could create excessive condensation and moisture, creosote build-up and poor draft.

The exhaust collar is labelled on the cap. If label is damaged or removed, the exhaust collar on the cap is the one that extends farther up through the cap when looking at the cap from the bottom or front.

TCE DirectVent is designed to vent residential gas-fired direct vent appliances which are certified for use with TCE DirectVent. This warranty is void if the venting system is used in an application for which it is not designed.

TCE DirectVent system must be installed according to these installations instructions included with every system purchased. This warranty is void if the system is not installed according to these instructions.

DISCLAIMER

All liability for damages shall not exceed the amounts paid to us for product consumed of the shipment with respect to which such damages are claimed. We shall not be liable for incidental, special, consequential or possibility of such damages. Before using user shall determine the suitability of product for intended use and assumes all risk and liability in connection therewith.