

INSTALLATION INSTRUCTIONS ENGLISH



ROLUX® VENT SYSTEM Raised Horizontal Termination Kit

These installation instructions should be kept with the appliance for maintenance



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Introduction

The Ubbink Rolux® concentric vent system is considered part of the direct vent tankless water heater.

The Ubbink Rolux® concentric vent system was tested and approved with the appliance by a third party testing agency. Check the manufacturer's installation instructions or certificate of compliance to confirm that the Ubbink Rolux® concentric vent system is approved for your direct vent tankless water heater.

The tankless water heater installation instructions take precedence over this document. Always refer to the appliance installation instructions before proceeding with the installation of this product.



WARNING

Improper installation of vent system and components, or failure to follow all installation instructions, can result in property damage or serious injury.

Installation Requirements

Installation and service of Ubbink Rolux® concentric vent system must be performed by a qualified installer, service agency or the gas supplier

Approvals/codes

The installation must conform with local codes or, in the absence of local codes, the National Fuel Gas Code, ANSI Z223.1/NFPA 54 and/or CSA B149.1, Natural Gas and Propane Installation Code.

The maximum flue length, as stated in the water heater installation instructions, should never be exceeded.

Do not use with other vent products

Ubbink Rolux® concentric vent systems must be used throughout the entire vent system. Do not use vent components from other vent manufacturers when using the Ubbink Rolux® concentric vent system.

Unless approved by the appliance manufacturer, do not connect this Ubbink Rolux® concentric vent system into a common flue system.

Inspection

Before installation inspect each vent component for damage and correct seal placement. Do not attempt to fix or install any damaged vent components.

Condensate

A condensate collector **MUST** be installed on the vent system when used in combination with the Raised Horizontal Termination Kit with a total vertical rise greater than 5 feet.

For cold areas however it is strongly advised to **ALWAYS** install a condensate collector to prevent from condensate affecting the heater.

The condensate collector should be installed with a condensate trap. Dispose of condensate according to local codes

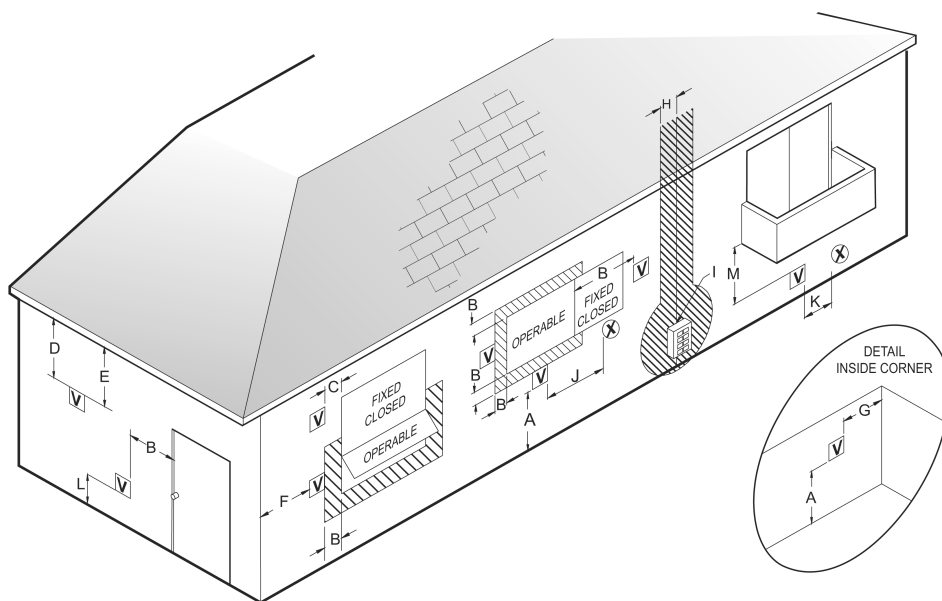
Before installation, be sure to identify the appliance top is male connection or female connection with integrated condensate collector.

For appliances with male connection a boiler adapter and condensate collector are sold separately, these components are **NOT** part of the Raised Horizontal Termination Kit.

Ice can develop in regions of cold climate. A ¼ inch per foot pitch to the appliance with the use of the condensate collector is recommended. *(Ubbink can not be held liable for personal injury or property damage dues to ice formation)*

Recommended vent/air intake terminal position

Terminals should be so positioned as to avoid products of combustion entering openings into buildings or other flues or vents



CAUTION

Maintain 12" of clearance above the highest anticipated snow level or grade or whichever is greater. Please refer to your local codes for the snow level in your area.



VENT TERMINAL PERMITTED



AREA WHERE TERMINAL IS NOT PERMITTED



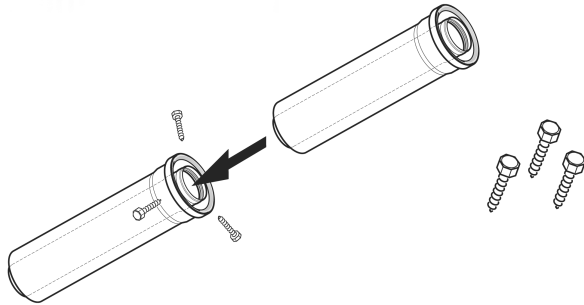
AIR SUPPLY INLET

REF	DESCRIPTION	U.S. Installations	Canadian Installations
A	Clearance above grade, veranda, porch, deck, or balcony	1 foot	1 foot (0,30 m)
B	Clearance to window or door that may be opened	1 foot	3 feet (0,91 m)
C	Clearance to permanently closed window	*	*
D	Vertical clearance to ventilated soffit, eaves or overhang	*	*
E	Clearance to unventilated soffit, eaves, or overhang	*	*
F	Clearance to outside corner	*	*
G	Clearance to inside corner	*	*
H	Clearance to each side of center line extended above meter/regulator assembly	*	3 feet (0,91 m) within a height 15 feet (4,57 m) above the meter/regulator assembly
I	Clearance to service regulator vent outlet	*	3 feet (0,91 m)
J	Clearance to nonmechanical air supply inlet to building or the combustion air inlet to any other appliance	1 foot	3 feet (0,91 m)
K	Clearance to a forced air inlet into a building	3 feet above if within 10 feet horizontally	6 feet (1,83 m)
L	Clearance above paved sidewalk or paved driveway located on public property	*	7 feet (2,13 m)
M	Clearance under deck, veranda, porch, or balcony (open on 3 sides)	*	1 foot (0,30 m)

* For clearances not specified in ANSI Z223.1 / NFPA 54 or CGA-B149, please use clearances in accordance with local installation codes and the requirements of the gas supplier

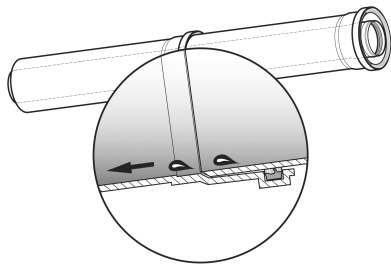
General Installation Instructions

Joint connection



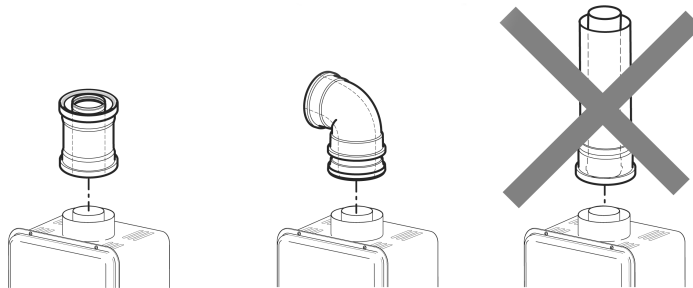
Vent connections must be firmly pressed together so that the gaskets form an airtight seal. To complete the joint connection, secure with three #8x1/2" sheet metal screws.

Coping with condensation



Vent lengths greater than 5ft. should pitch a minimum 1/4"/ft. (1°) to the appliance.
Note: see exception under Condensate on page 4

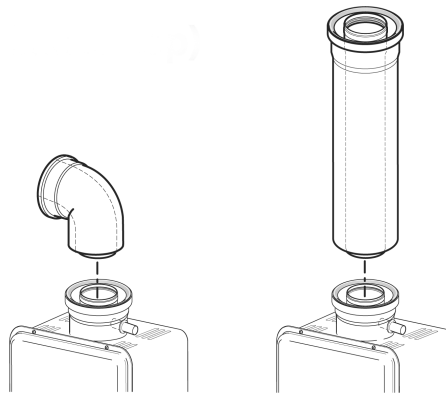
Appliance connection (male appliance top)



For a male appliance top, the first vent component must be a vertical discharge adapter or a horizontal discharge adapter. Never use an extension as the first component, this will cause damage to the water heater and vent system. Secure flue connections with pipe clamps or perforated hanger iron.

Appliance connection (female appliance top)

Installations with a female appliance top do not need an appliance adapter or a condensate collector. Simply insert the male end of a vent component into the female appliance top and use the integrated condensate collector.



Condensate drain

Condensate can damage the water heater, please read carefully page 4 in this installation manual.

To prevent condensate from draining back to the appliance, a condensate collector (B) and trap (C) should be installed. The trap must maintain 3" of fluid and the drain tube must pitch down from the appliance

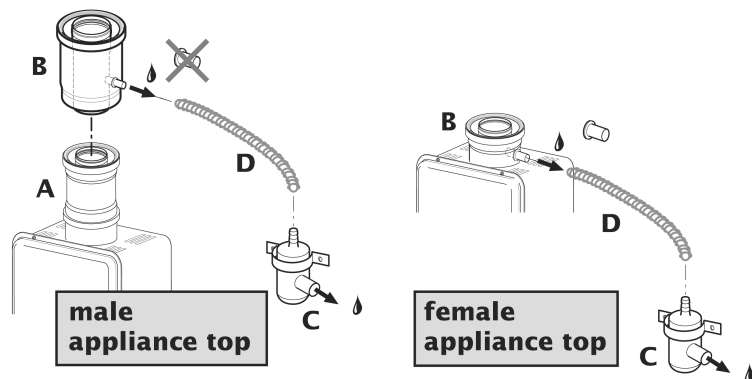
The trap must be inspected annually for obstructions and fluid content. Drain and dispose of condensate per local codes.

Female Appliance top:

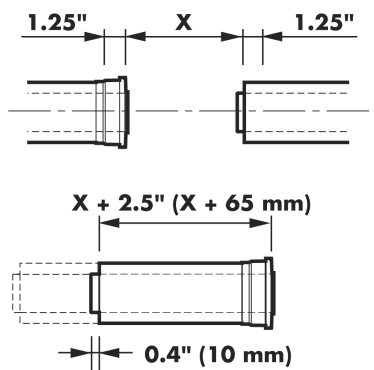
The female appliance connection has an integrated condensate collector. When using this condensate collector remove the drain cap and install a condensate trap per the installation instructions.

Male Appliance top:

Install a condensate collector and trap as close as possible to the appliance.



Shortening of Vent extensions



The aluminum inside pipe should always extend 0.4" (10mm) beyond the white outside pipe on the male end of the vent extension.

Always cut the male end of the vent pipe extension. Do not attempt to cut the female end.

Pipes overlap by 1.25" (37mm). Therefore when cutting to size, add $2 \times 1.25 = 2.5$ " (65mm) to the extension pipe length (X) needed for installation.

Deburr the sharp edges, otherwise the gaskets may be damaged, which can result in the system no longer being airtight.

Discard piece cut off. This cannot be used.



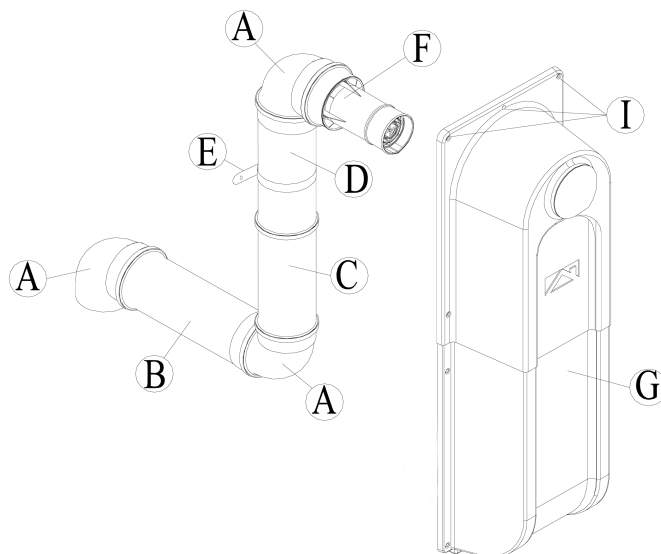
WARNING

Improper installation of vent system and components, or failure to follow all installation instructions, can result in property damage or serious injury.

Installation Instructions

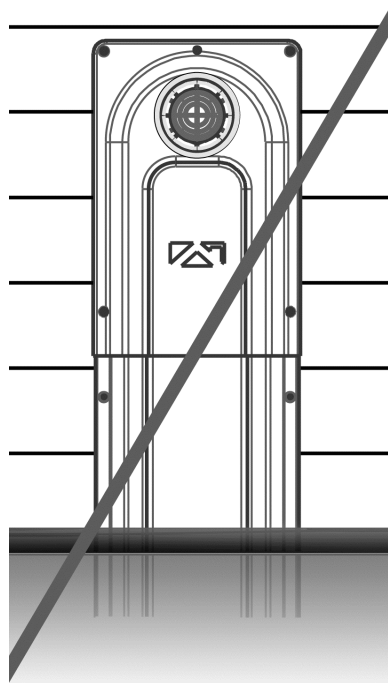
Ubbink Rolux® concentric vent system

Raised Horizontal Termination Kit

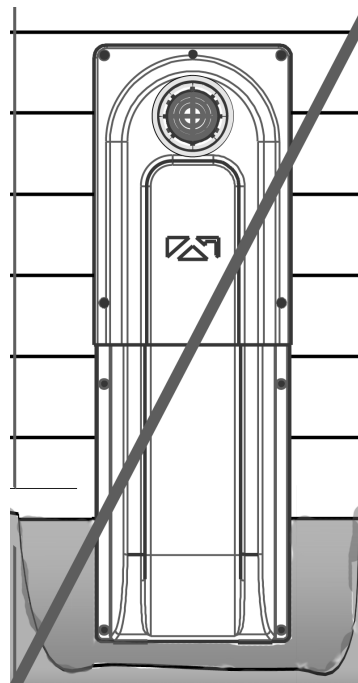


	Description	Qty.
A	90° Elbow	3
B	14.2" Vent Extension	1
C	Telescopic Vent Extension	1
D	19.5" Vent Extension	1
E	Vent Pipe Clamp	1
F	Horizontal Termination	1
G	Enclosure	1
H	3pc. #8x1/2" screws	5
I	Screws / Anchors	9

Incorrect installation Location



Note: Do not bury the enclosure below Grade

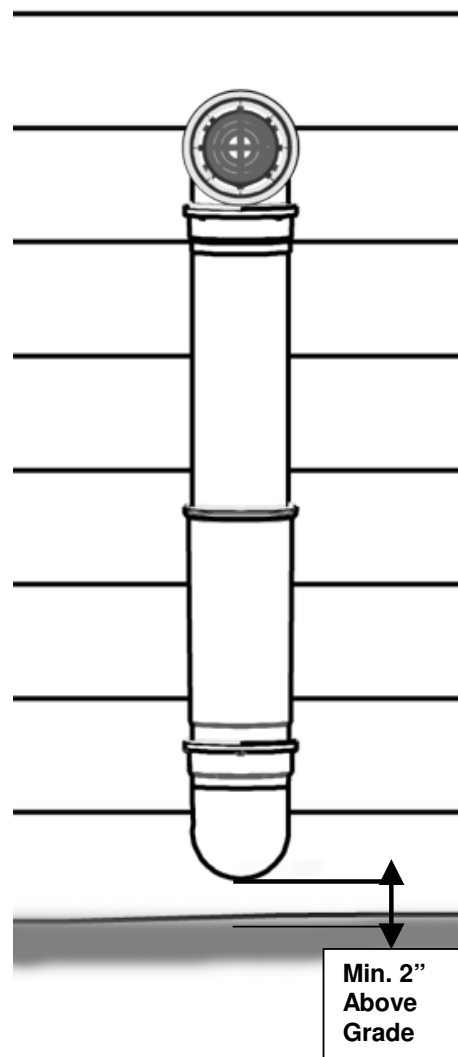
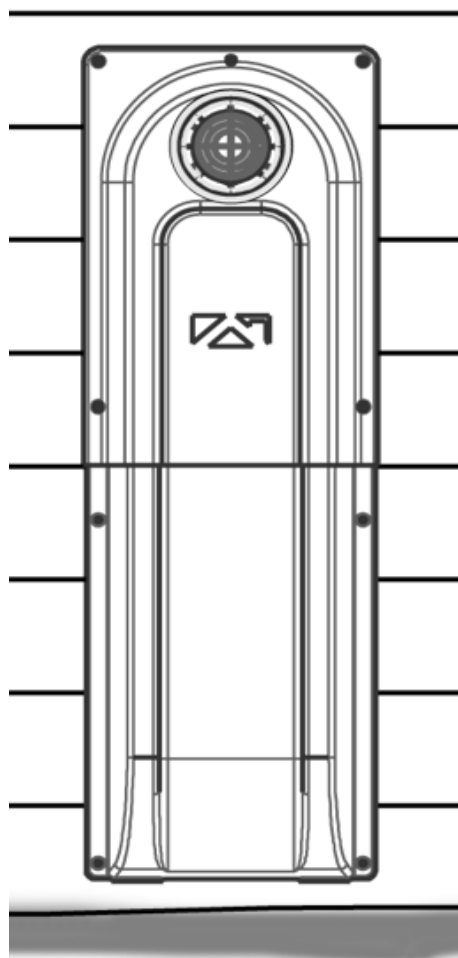


Note: Do not position the enclosure below Grade

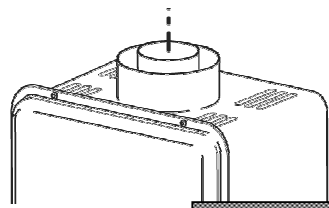
Installation of the Raised Horizontal Termination Kit

Correct Installation Location

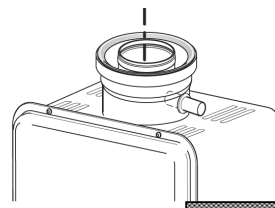
Note: Refer to the illustration below and the information on page 5 for correct vent and termination locations



Identify Gender of the Appliance Vent Connector



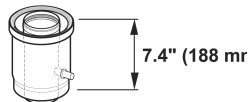
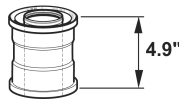
Male appliance
Connector



Female appliance
Connector

Note:

If the appliance is identified having a Male appliance connector, a vertical discharge adapter and condensate collector must be installed.



These components are not included in the Raised Horizontal Termination Kit package, and must be ordered separately.

Installation of the Appliance

-Identify the gender of the appliance as shown above and install the correct components.

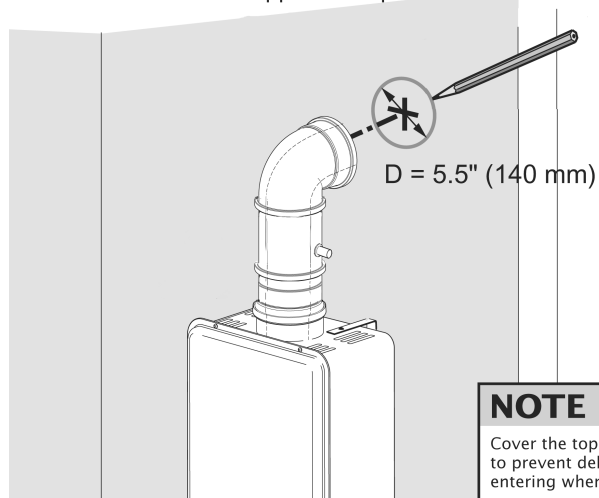
Installation with Male appliance Top

-Install the following components in this order: Vertical discharge adapter to the appliance followed by a condensate collector then install the 90° vent elbow.

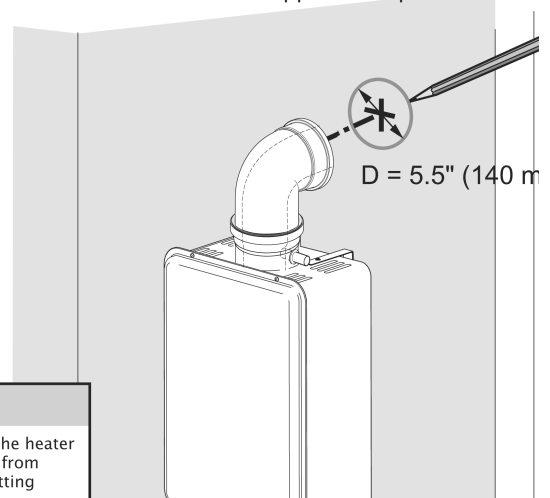
Installation with Female appliance Top

-Install the 90° vent elbow to the top of the appliance

Installation with Male Appliance Top



Installation With Female Appliance Top

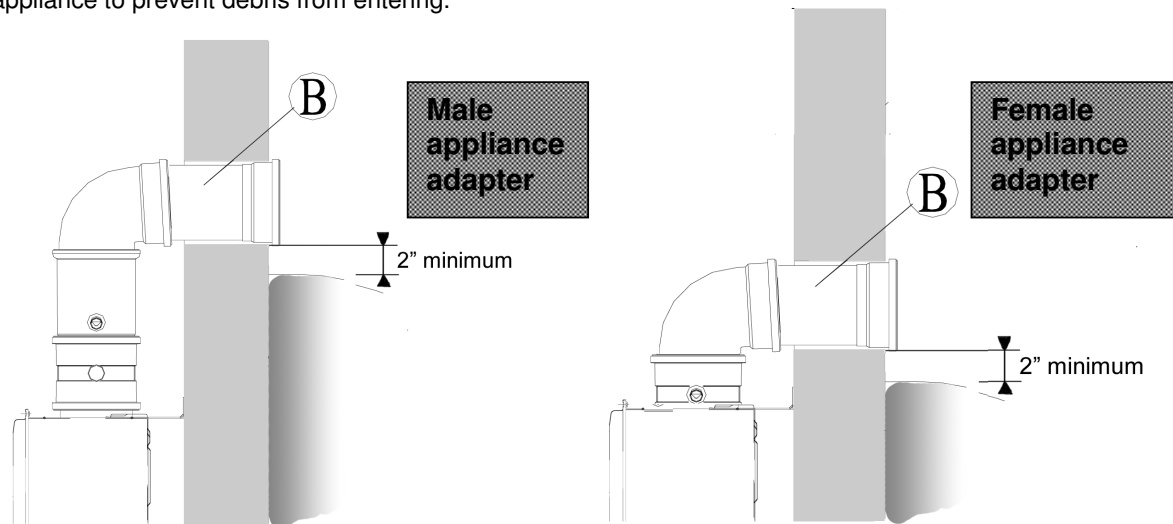


NOTE

Cover the top of the heater to prevent debris from entering when cutting

General installation instructions of the Raised Horizontal Vent Termination Kit

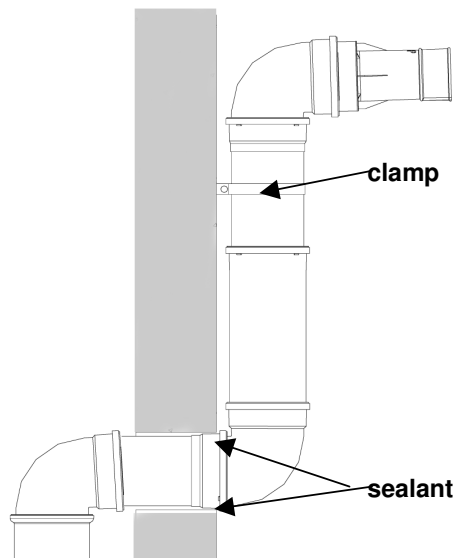
- Mount and install the appliance as indicated in the water heater installation instructions.
- Mark position on wall
- Or use template provided with the water heater (Female appliance top only)
- Take into account the minimum distance (2 inches) above grade for the wall passage.
- Cut hole 5.5 " diameter, covering top of the appliance to prevent debris from entering.



Measure dimension to fit

- Using the instruction on page 7 cut the vent piece B, to the appropriate length.

Note: the outer edge of the extension should be cut so that it protrudes max. 0.5inch through the outside of the wall.

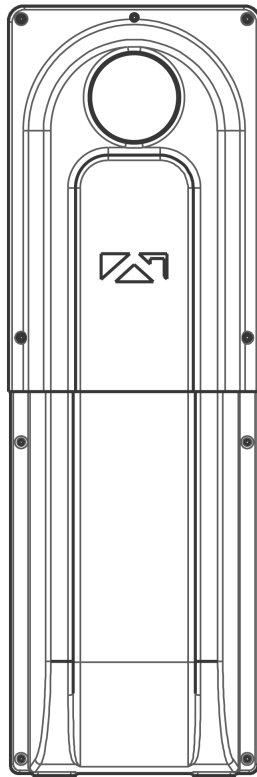


- Slide the cut vent extension through the wall and assemble it to the 90° elbow.
- Next install the 90° vent elbow, telescopic vent extension, 19.5" vent extension and finally the 90° vent elbow attached to the discharge terminal.
- By sliding the 19.5 inch vent extension Up or Down in the telescopic vent extension, position the vent to the desired distance above grade or snow level.

Note: The maximum length of the vertical part of the outside termination is 31.5 inches (800mm). It can be adjusted to a minimum length of 23.5 inches (600mm)

- Secure the vent assembly to the wall with the provided pipe clamp.
- Seal the wall penetration with water proof silicon sealant to prevent moisture from entering the structure.

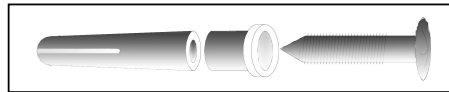
The sockets can be secured with the supplied #8x1/2" sheet metal screws.



Installation of the raised horizontal cover

- Position the hole at the top of the enclosure over the vent termination, slide the cover to the wall.
- The cover should be positioned in a vertical position.
- If needed water-proof silicon sealant can be used to seal the ridge at the top of the cover.
- Assemble the cover to the wall with provided screws, screw distance collars and wall anchors (last optional depending on wall structure)
- The screw positions are clearly marked on the cover.

If needed the cover can be cut at the middle and slid together to reduce the overall length of the cover.



Wall anchor-distance collar-screw

Note: Do not position any part of the cover or vent system below grade.