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Rolux[®] Vent System

The installation instructions should be kept
 with the appliance for maintenance



Contents

| | |
|---|----|
| Introduction | 3 |
| Installation Requirements | |
| Approvals/codes | 4 |
| Do not use with other vent products | 4 |
| Inspection | 4 |
| Condensate | 4 |
| Recommended venting air intake terminal position | 5 |
| General Installation Instructions | |
| Joint connection | 6 |
| Coping with condensation | 6 |
| Appliance connection (male top) | 6 |
| Appliance connection (female top) | 7 |
| Condensate drain | 7 |
| Shortening of vent extensions | 7 |
| Parts & Dimensions | 8 |
| Installation Instructions Horizontal Discharge Vent System | |
| Identify the vent location | 10 |
| Measure dimension to fit | 10 |
| Final installation of the vent system | 11 |
| Installation examples | 12 |
| Installation Instructions Vertical Discharge Vent System | |
| Identify the vent location | 13 |
| Cut to fit | 13 |
| Mounting the vent system | 14 |
| Installation examples | 15 |

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 systems 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 vent length, as stated in the water heater installation instructions and these instructions, should never be exceeded.

Do not use with other vent products

Ubbink Rolux® vent systems must be used throughout the entire vent system.

Do not use vent components from other vent manufacturers when using the Ubbink Rolux® vent system.

Unless approved by the appliance manufacturer, do not connect this Ubbink concentric vent into a common vent 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

Vertical Termination Installations

- A condensate collector **MUST** be used on all vertical termination installations.

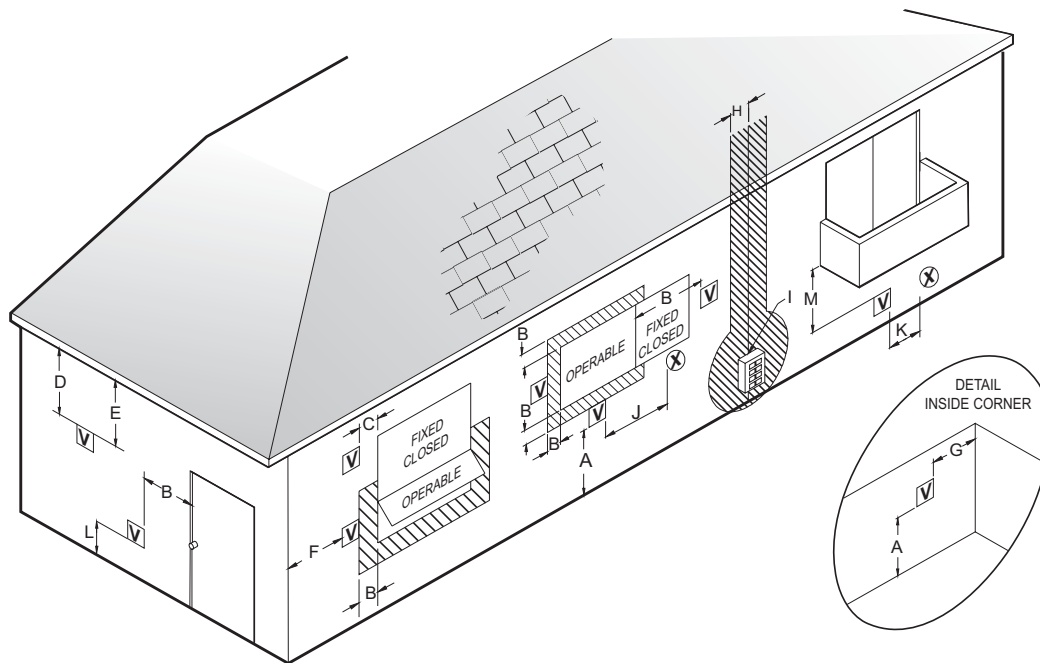
Horizontal Termination Installations

- A condensate collector **MUST** be installed on the vent system for any horizontal termination with a total vertical rise greater than 5 feet.
- Slope horizontal venting 1/4 inch per foot either toward the appliance with a condensate collector or toward the exhaust terminal (*Ubbink prefers pitching the vent 1/4 inch per foot towards the appliance with a condensate collector*).
- If a condensate collector is **NOT** used for horizontal terminations, it is permitted to pitch the vent 1/4 inch per foot toward the termination under the following conditions:
 1. The vent system should be inspected annually for signs of damage or condensate leaks. If the vent system appears damaged the appliance must be turned off and the vent system repaired.
 2. The horizontal termination may not be located above a public walkway, driveway or area where condensate or vapor could create nuisance or hazard.
 3. Ice can develop in regions of cold climate. A 1/4 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 due to ice formation*)

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

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



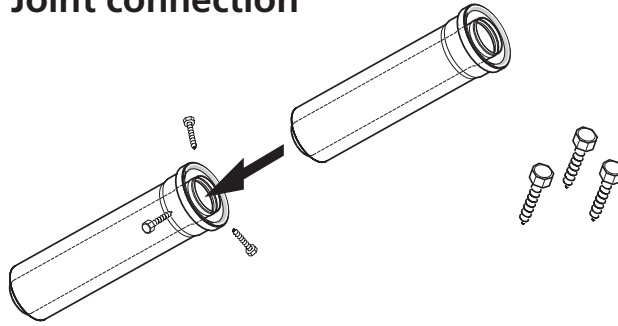
AIR SUPPLY INLET

| 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

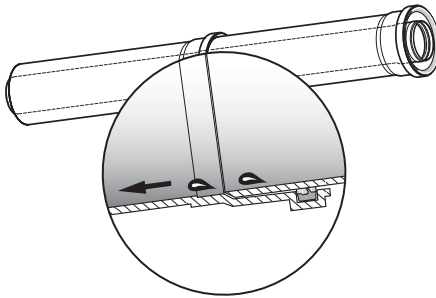
General Installation Instructions

Joint connection



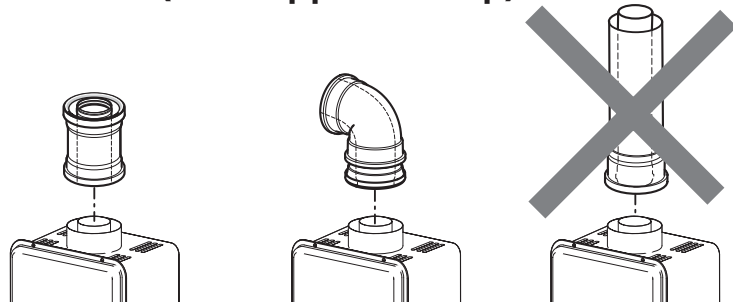
Vent connections must be firmly pressed together so that the gaskets form an airtight seal. To complete the joint connection, secure with three #8x1/2" sheet metal screws. Secure the vent to the wall or ceiling with pipe clamps or perforated hanger iron.

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.

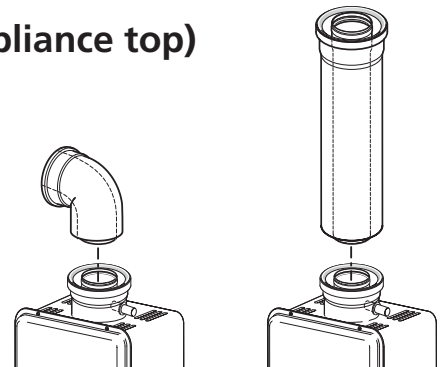
Appliance connection (male appliance top)



For a male appliance top, the first vent component to the appliance must be a vertical discharge adapter or a horizontal discharge adapter. Never use a vent extension as the first component to a male appliance top.

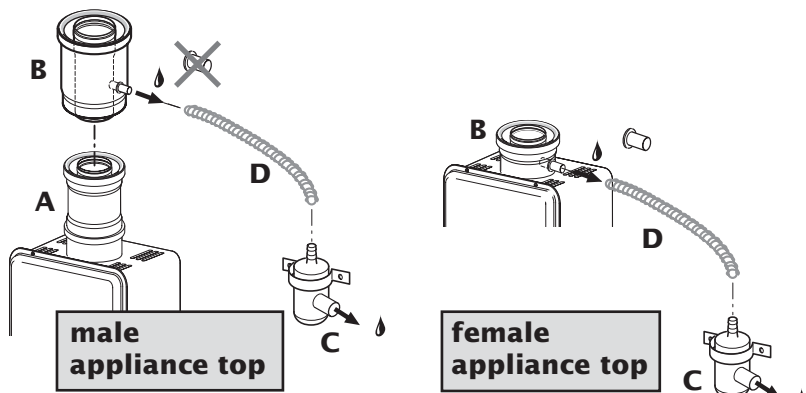
Appliance connection (female appliance top)

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.

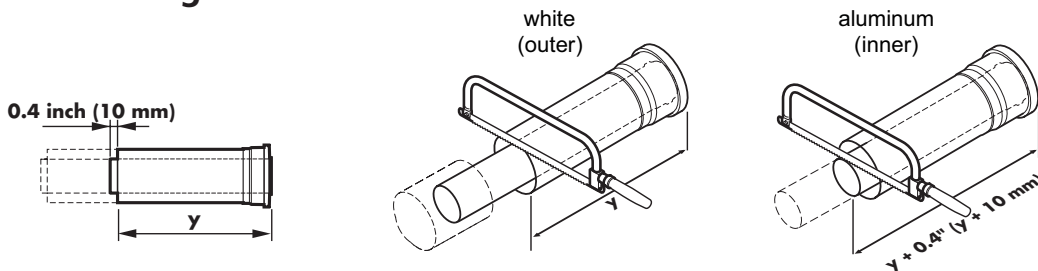


To prevent condensate from draining back to the appliance, a condensate collector (B) and trap (C) should be used. The trap must maintain 3" of fluid and the drain tube must pitch down from the appliance. Annually inspect the collector and trap for obstructions and fluid content in the trap. Drain and 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.

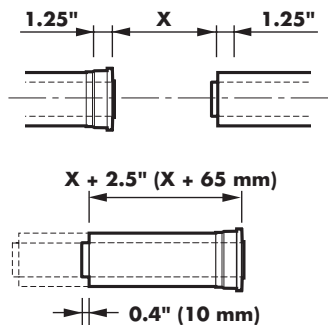
Male Appliance Top: Install a condensate collector and trap as close as possible to the appliance.

Shortening of vent extensions



The aluminum inside pipe should always extend 0.4" (10 mm) 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" (37 mm). Therefore when cutting to size, add $2 \times 1.25 = 2.5$ " (65 mm) to the extension pipe length (X) needed for installation.

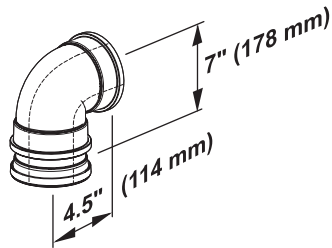
Deburr the sharp edges, otherwise the gaskets might get damaged, which can result in the system no longer being air tight.

WARNING

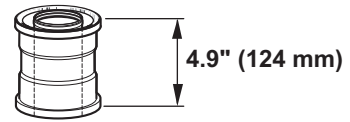
Improper installation of vent system and components, or failure to follow all installation instructions, can result in property damage or serious injury.

Parts & Dimensions

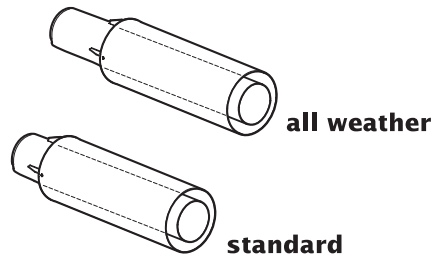
for all Rolux® vent system components



1 horizontal discharge adapter



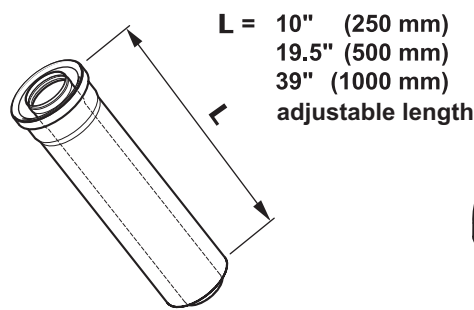
2 vertical discharge adapter



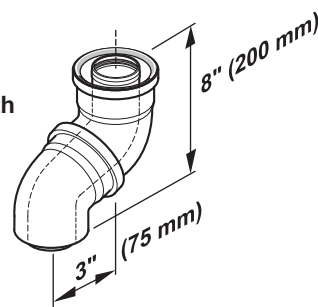
3 Horizontal Termination



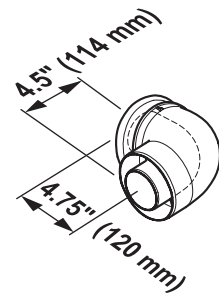
4 rubber wall plate



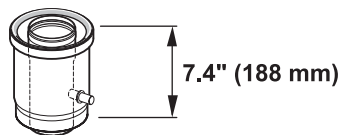
5 vent extension



6 45° vent pipe elbow
(sold in pairs only)



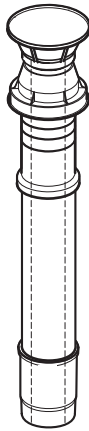
7 90° vent pipe elbow



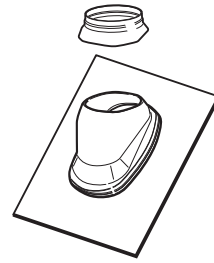
8 condensate collector



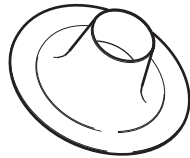
9 vent pipe clamp



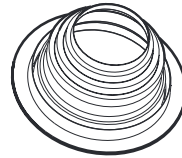
10 vertical discharge roof terminal



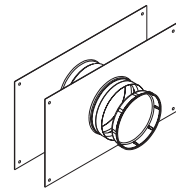
11 pitch roof flashing



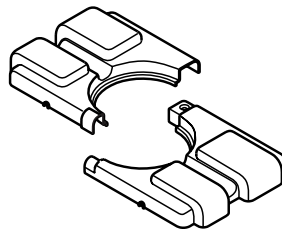
12 flat roof flashing



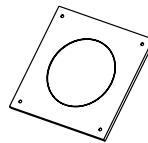
18 Flashing for Metal Roof



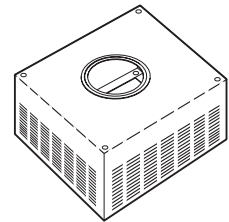
14 wall-thimble



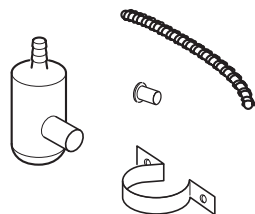
15 Water Heater Guard



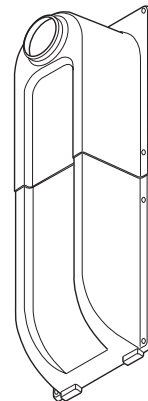
16 Pass Through Plate



17 bugguard



13 condensate trap kit



19 Outdoor Vent Extension Cover

Installation Instructions

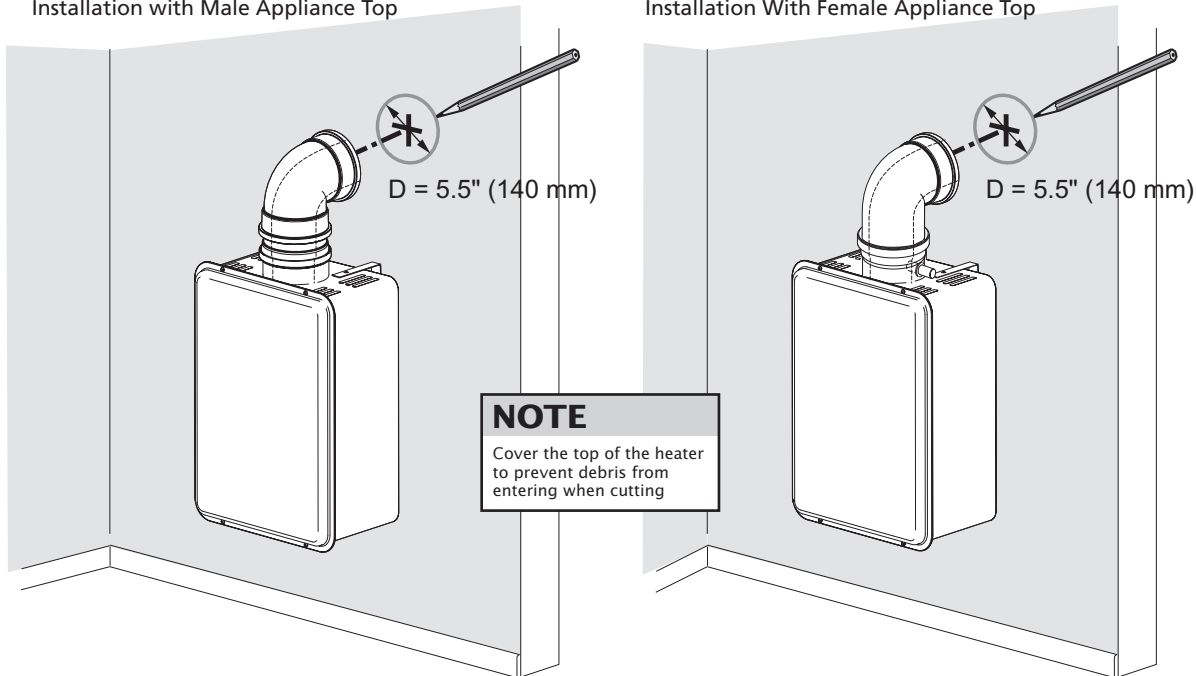
Rolux® Horizontal Discharge Vent System

1

Identify the vent location

CASE A:
Installation with Male Appliance Top

Case B:
Installation With Female Appliance Top



NOTE

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

Steps:

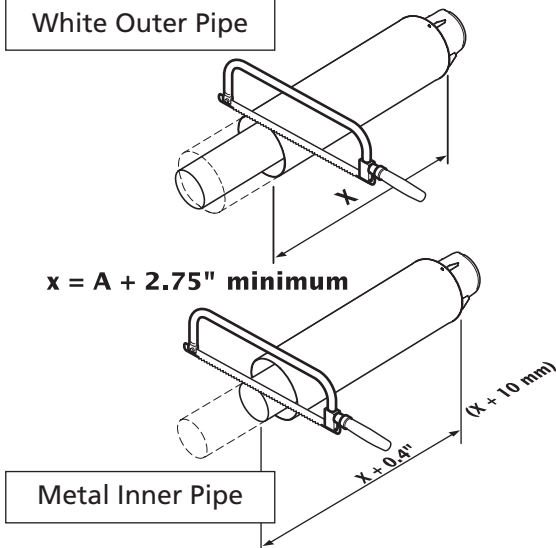
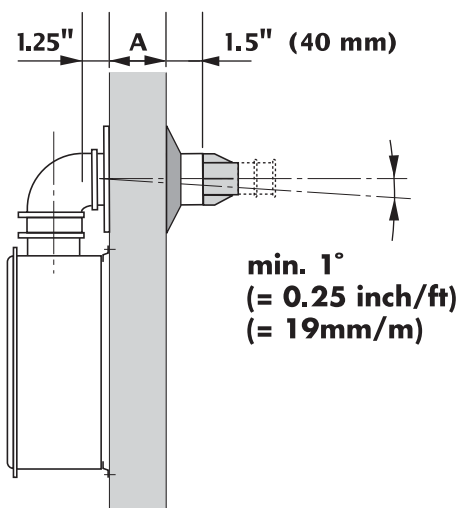
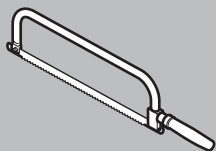
Case A: Place the horizontal Discharge Adapter on the appliance.

Case B: Place the 90° Vent Pipe Elbow on the appliance.

- Mark position on wall
- Or use template provided with water heater
- Cut hole, covering the top of the water heater to prevent debris from entering

2

Measure dimension to fit



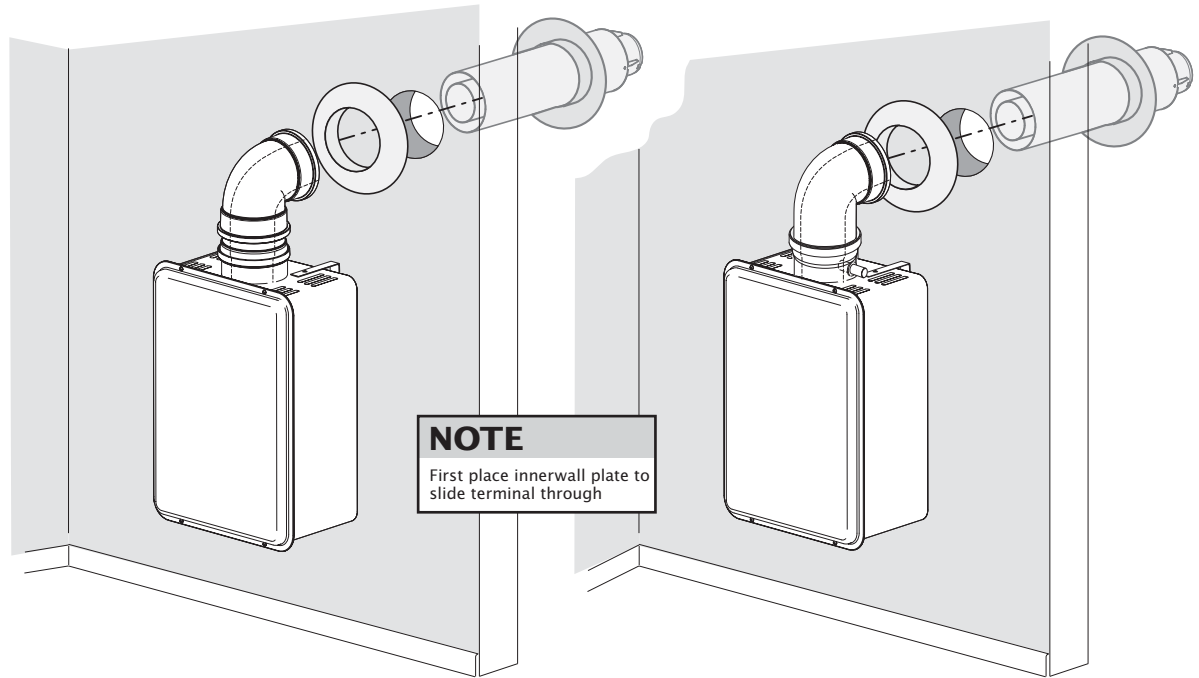
Reference page 4 of these installation instructions for the acceptable pitch direction.

3

Final installation of the vent system

CASE A:
Installation with Male Appliance Top

Case B:
Installation With Female Appliance Top



After cutting the appropriate length, slide the Horizontal Termination through the hole in the wall. Position the first rubber wall plate around the male end of the termination.

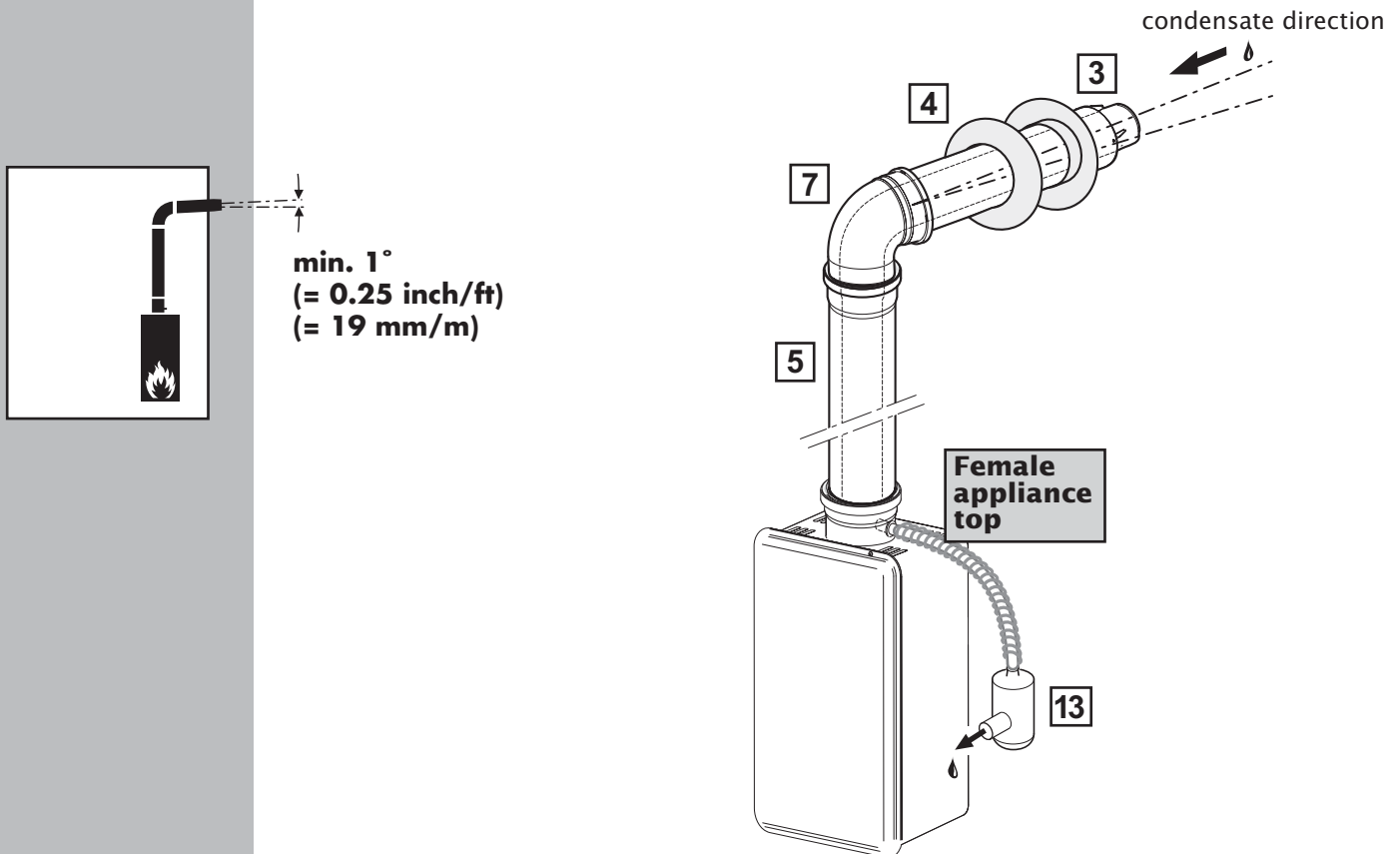
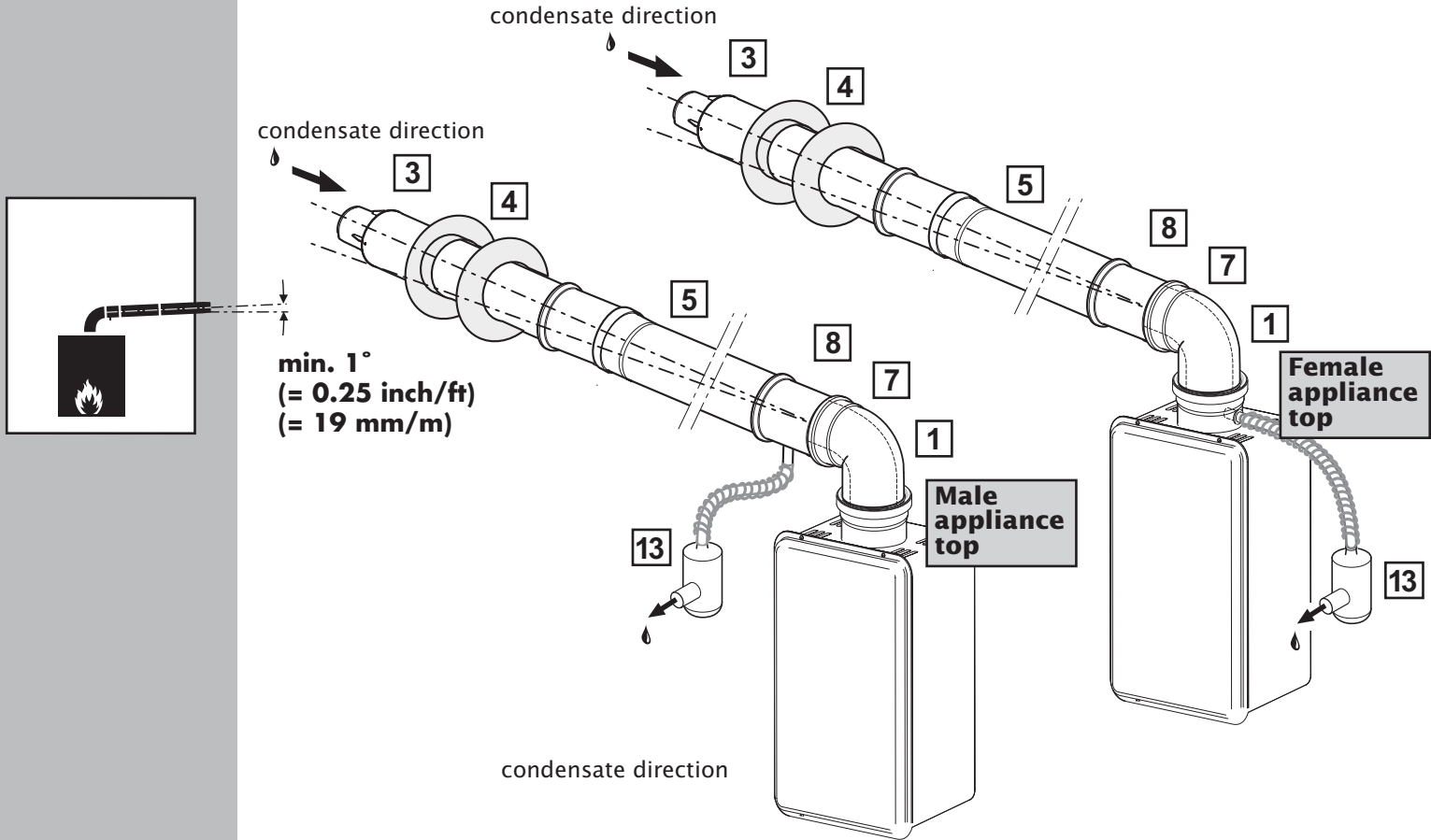
Case A; Slide the male end of the termination in the Horizontal Discharge Adapter.
Case B: Slide the male end of the termination into the 90° Vent Pipe Elbow.

Fill the gaps between the wall and the vent pipe penetration with a weather proof Sealant. Finally, position the second rubber wall plate around the vent pipe, between The end of the termination and the exterior wall.

NOTE

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

Horizontal Vent System Installation examples



Installation Instructions

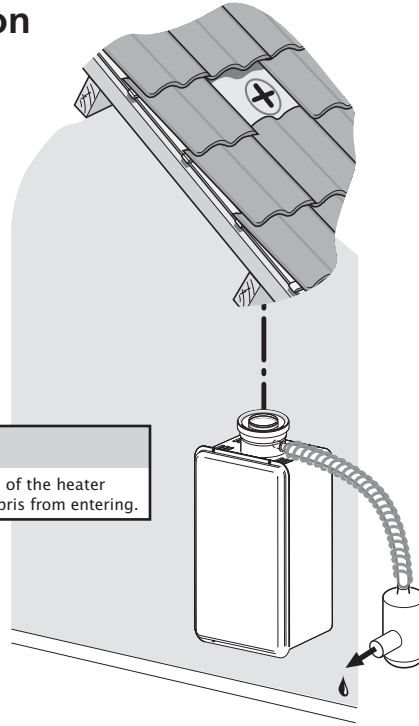
Rolux® Vertical Discharge Vent System

1

Identify the vent location



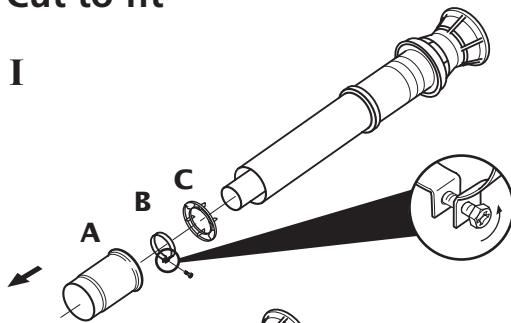
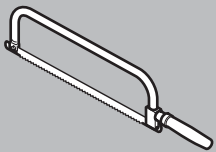
NOTE
Cover the top of the heater to prevent debris from entering.



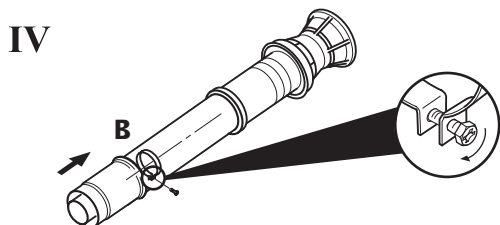
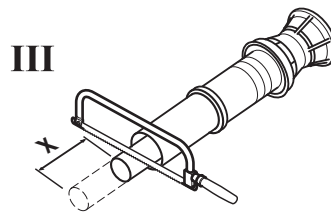
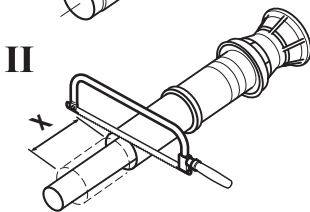
Determine the location where the roof discharge terminal will be installed. Taking into account the angle of the roof, cut the hole with a dimension that allows the vertical discharge roof terminal to be installed (6"x6" hole for flat roof, 9"x6" hole for 12/12 pitch, or 12"x6" hole for 16/12 pitch).

2

Cut to fit



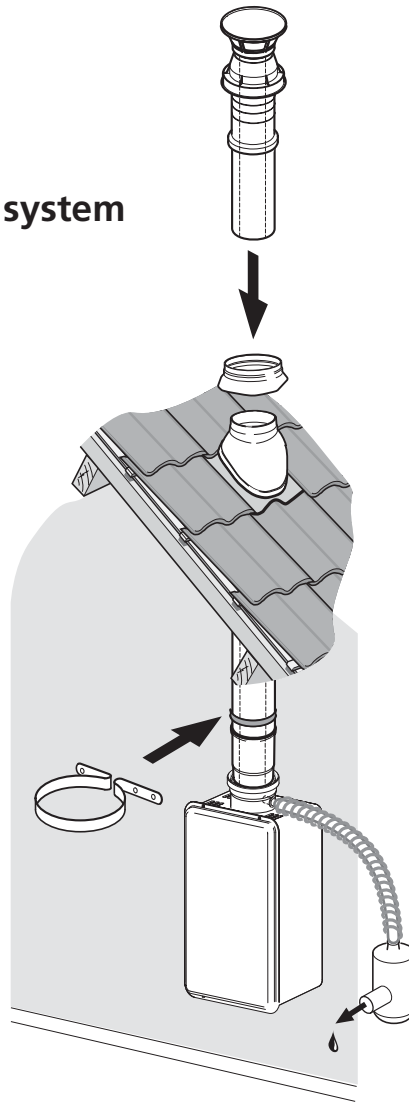
The terminal can be shortened by removing the components A+B+C, and then shortening both the inside and outside pipes with the same length X.



Re-assemble the terminal by attaching the components A, B, and C in the correct order. Tighten component B securely.

3

Mounting the vent system



Vent connections must be firmly pressed together so that the gaskets form an airtight seal. Secure the system with the supplied vent pipe clamp or perforated hanger iron.

NOTE

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

Vertical Vent System Installation examples

