Continuous Flow Flue System - Installation Overview

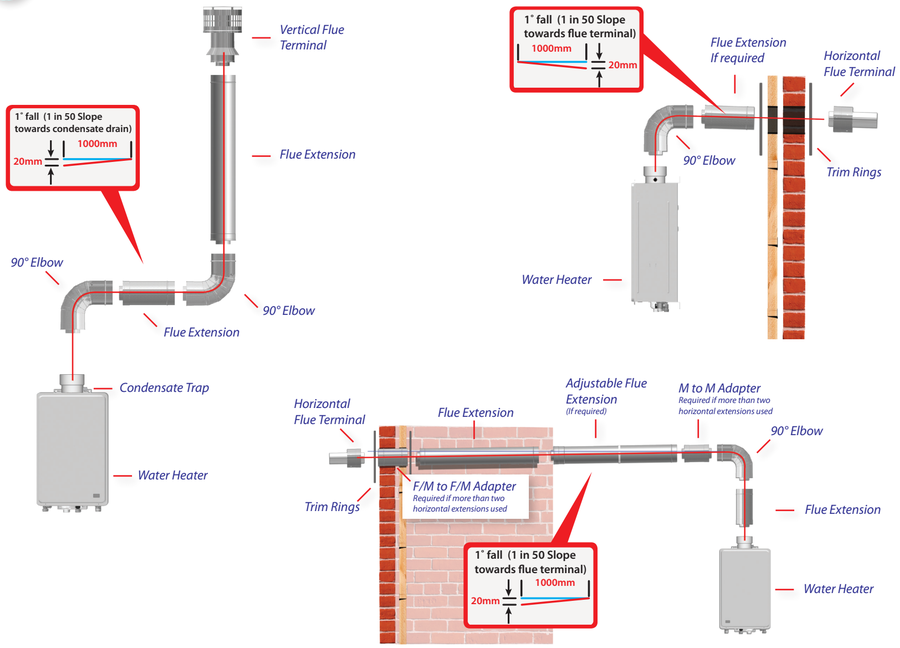
WARNING: This water heater requires a correctly fitted secondary flue to discharge the combustion products outside the building. Failure to install the water heater in accordance with the Installation Instructions, including correct fitting of the flue to the water heater, properly flueing the water heater to outside the building and ensuring it has adequate air supply, will result in unsafe operation possibly resulting in fire, explosion, serious injury or asphyxiation from carbon monoxide.

INSTALLER: This pictorial guide does not replace the Owner's Guide and Installation Instructions supplied with the water heater. The installation instructions should be read in full and referred to for details. Rheem will not accept any liability for failure to read or install the water heater in accordance with the installation instructions.

The ONLY suitable flue parts are certified Rheem coaxial flue components carrying this label: DO NOT used any other type of flue parts.

CERTIFIED COAXIAL FLUE COMPONENT

1 Continuous Flow Flue System Configurations



2 Installation Requirements

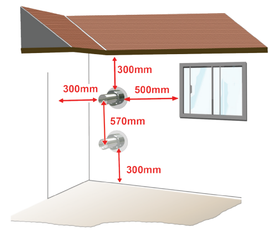
IMPORTANT

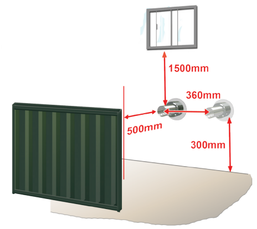
- *Male end of flue points to appliance.*
- *3 screws required at each flue component joint.*
- *All flue components must be correctly joined.*
- *A sealing gasket is located at one end of the inner flue. Ensure the gasket is in place and properly seated.*
- *1° fall required (20mm per 1000mm of horizontal run).*
- *A condensate trap is required for all vertical terminating flues and where vertical runs more than 2 metres are used in horizontally terminating flues.*
- *The certified flue length is 9m with a maximum of 3 x 90° bends.*
- *The maximum flue length with no bends can be 13.5m.*
- *Reduce the maximum length by 1.5m for every 90° bend and by 0.75m for every 45° bend*

Fall must be towards terminal for horizontal terminating flues. Where any bends are used to create vertical runs, the fall must be towards the condensate drain.

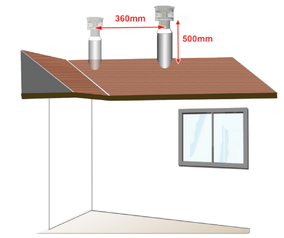
Installation Requirements (cont)

CLEARANCES - HORIZONTAL FLUE SYSTEMS



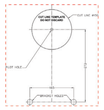


CLEARANCES - VERTICAL FLUE SYSTEMS



Installation Requirements (cont)

Identify Components



Installation Template (Remove from instruction manual)

Water Heater

Trim Rings

560 - 890mm Adjustable Flue Extension

900mm Flue Extension

Condensate Trap (Required where applicable. Please read the instructions)

300mm Flue Extension

Vertical Flue Terminal

Horizontal Flue Terminal

45° Elbow

90° Elbow

M to M Adapter Required if more than two horizontal extensions used

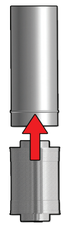
FM to FM Adapter Required if more than two horizontal extensions used

Mounting Brackets

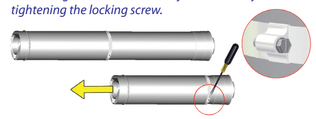
Installation Requirements (cont)

A spray bottle with soapy water can assist installation of flue components.

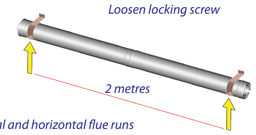
Flue components must be firmly and positively joined to create a good seal



To extend the adjustable flue extension, loosen the locking screw. Secure the adjustable flue by tightening the locking screw.



Loosen locking screw



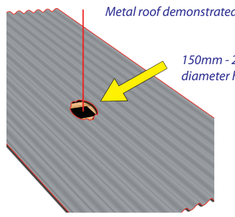
Vertical and horizontal flue runs must be supported every 2 metres

Vertical Flue Installation

1 Establish Flue Position

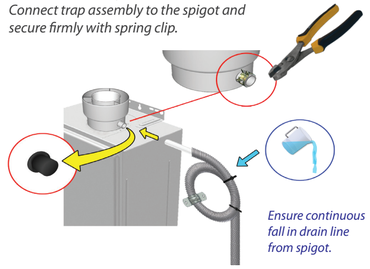
Note location of pipes, electrical wires, roof purlins and rafters.

Make a hole for the roof penetration (150mm – 200mm)



2 Connect Condensate Trap

Remove protective cap from spigot.
Fill condensate trap with water.
Connect trap assembly to the spigot and secure firmly with spring clip.



Ensure continuous fall in drain line from spigot.

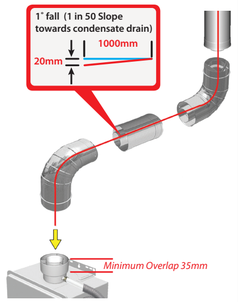
3 Connect Flue Components

Fit the flue extensions or elbows required to complete the flue run.

Fix all flue components with three screws at each join.

IMPORTANT
Where bends are used, the horizontal section must fall towards the water heater.

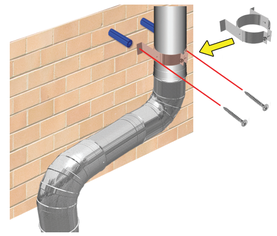
Note: Incorrect direction of fall will cause any condensate to pool in the flue.



Connect Flue Components (cont)

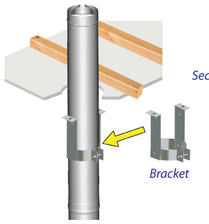
Secure the flue with a bracket after each transition to the vertical.

Use suitable wall anchors and screws, tighten firmly.



Connect Flue Components (cont)

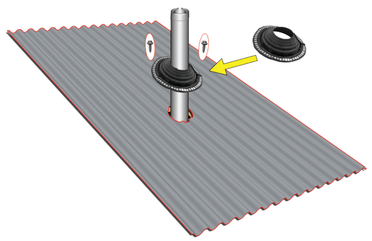
Support the flue at the ceiling penetration.



IMPORTANT: Where flue penetrates ceilings, floors or walls, the penetration must comply with local regulations for fire safety.

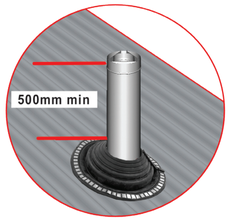
4 Complete Roof Penetration

Fit the roof flashing. (Installer to supply)
Fix in accordance with manufacturers instructions and local standards.



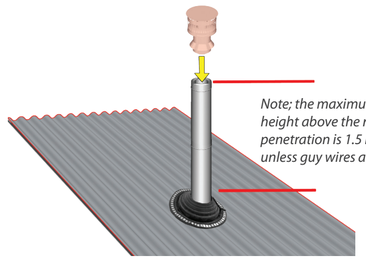
Complete Roof Penetration (cont)

The bottom of the flue terminal must be no less than 500mm from the nearest part of the roof.



5 Fit Flue Terminal

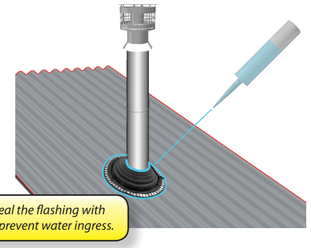
Fit the flue termination to the end of the flue.
Secure with 3 screws.



Note; the maximum flue height above the roof penetration is 1.5 metres unless guy wires are used.

6 Seal Flashing

Seal flashing in accordance with manufacturers instructions and local standards.



Correctly seal the flashing with sealant to prevent water ingress.

Horizontal Flue Installation
Water heater mounted on flue discharge wall

WARNING: This water heater requires a correctly fitted secondary flue to discharge the combustion products outside the building. Failure to install the water heater in accordance with the Installation Instructions, including correct fitting of the flue to the water heater, properly flueing the water heater to outside the building and ensuring it has adequate air supply, will result in unsafe operation possibly resulting in fire, explosion, serious injury or asphyxiation from carbon monoxide.

INSTALLER: This pictorial guide does not replace the Owner's Guide and Installation Instructions supplied with the water heater. The installation instructions should be read in full and referred to for details. Rheem will not accept any liability for failure to read or install the water heater in accordance with the installation instructions.

The ONLY suitable flue parts are certified Rheem coaxial flue components carrying this label: DO NOT used any other type of flue parts.

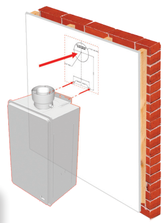
CERTIFIED COAXIAL FLUE COMPONENT

1 Mount Water Heater

Mount the water heater to the wall. Use suitable fixings to secure the water heater.

Align the template bracket holes over the bracket holes of the water heater and mark out the position of the flue pilot hole.

Keep template.

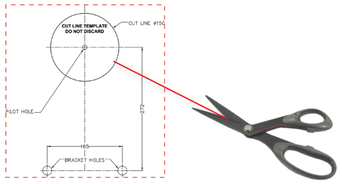


Check for pipes, wall studs and electrical cables before drilling

2 Mark Out Hole On Wall

Cut out the 150mm 'cut line' from the template.

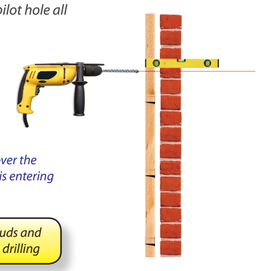
Using the cut out circle, align the template to the pilot hole mark and scribe the circle on wall.



3 Make Wall Penetration

Use a 6mm drill to make a pilot hole all the way through the wall.

Pilot hole must be level.



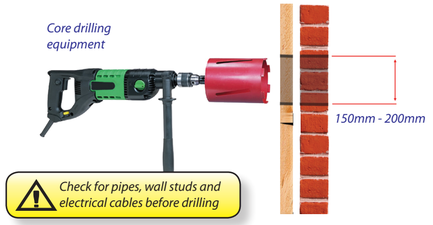
IMPORTANT
Remove the water heater or cover the flue outlet to prevent any debris entering the flue outlet.

Check for pipes, wall studs and electrical cables before drilling

Make Wall Penetration (cont)

Use a core drill or other means to make a hole through the wall. (150mm - 200mm diameter).

Core drilling equipment

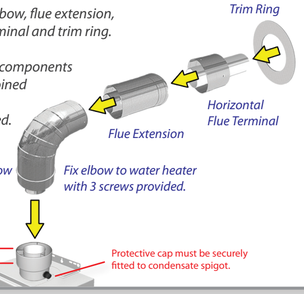


Check for pipes, wall studs and electrical cables before drilling

4 Connect Flue Components

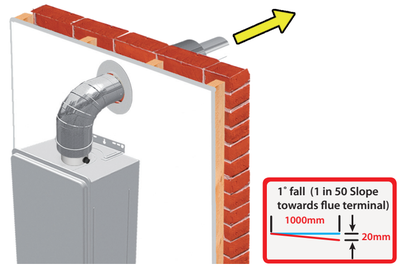
Connect the elbow, flue extension, horizontal terminal and trim ring.

Ensure all flue components are correctly joined and fixed with screws provided.

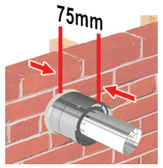


Connect Flue Components (cont)

Fit the assembly to the wall.



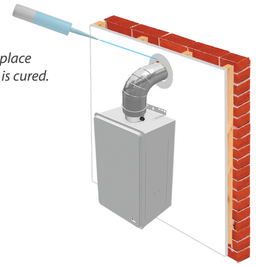
Outer casing of horizontal flue terminal must extend a minimum of 75mm past wall opening



5 Seal Inner Trim Ring

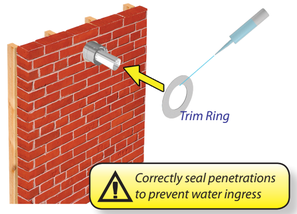
Apply sealant to back of trim ring, and press against wall.

Note: Hold trim ring in place with tape until sealant is cured.



6 Seal Outer Trim Ring

Apply sealant to gap between trim ring and terminal. Note: Hold trim ring in place with tape until sealant is cured.



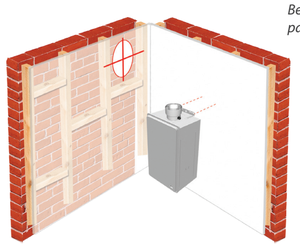
Correctly seal penetrations to prevent water ingress

Horizontal Flue Installation
Water heater not mounted on flue discharge wall

1 Establish Flue Position

Use the template to establish a position for the water heater and flue system.

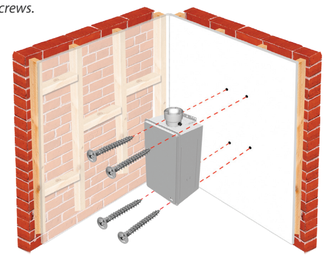
Be sure there is a clear path for the flue run.



2 Mount Water Heater

For units not mounted on a frame, fix the water heater to the wall with suitable screws.

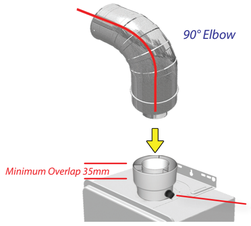
Tighten firmly.



3 Connect Elbow

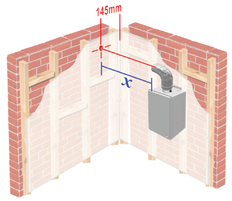
Connect the elbow to the water heater. Align the elbow in the direction of wall penetration.

Fix with 3 screws provided.



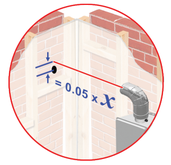
4 Mark Out Hole On Wall

Measure distance from floor to centre of the elbow. Transfer this mark to the adjacent wall, in line with the flue . Measure distance 'x' in mm, from the end of the elbow to the wall. Record this measurement.



Multiply this measurement by 0.05 (e.g. lower the centre mark by 20mm for every 1000mm of horizontal run.) This is the 'fall' to the centre of the hole.

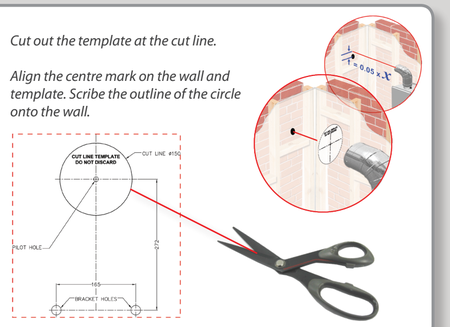
Mark this position on the wall.



Mark Out Hole On Wall (cont)

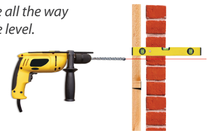
Cut out the template at the cut line.

Align the centre mark on the wall and template. Scribe the outline of the circle onto the wall.



5 Make Wall Penetration

Use a 6mm drill to make a pilot hole all the way through the wall. Pilot hole must be level.



IMPORTANT
Remove the water heater or cover the flue outlet to prevent any debris entering the flue outlet.

Use a core drill or other means to make a hole through the wall. (150mm - 200mm diameter).

Core drilling equipment

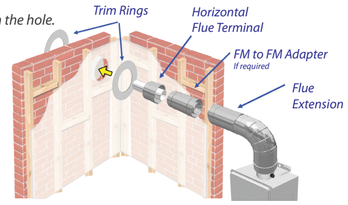
Check for pipes, wall studs and electrical cables before drilling

6 Connect Flue Components

Connect the flue extensions, horizontal flue terminal and trim ring. Fix each join with 3 screws provided.

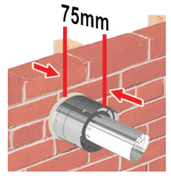
Fit the assembly through the hole.

Fit the Outer Trim Ring.



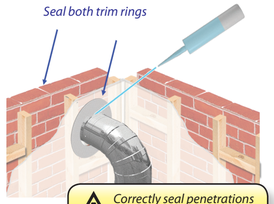
Note: If a M to M adapter is used a FM to FM adapter is to be the final extension before the flue terminal.

Outer casing of horizontal flue terminal must extend a minimum of 75mm past wall opening.



7 Seal Trim Rings

Apply sealant to back of trim rings and press against wall. Note: Hold trim rings in place with tape until sealant is cured.



Correctly seal penetrations to prevent water ingress

126314A - July 2012