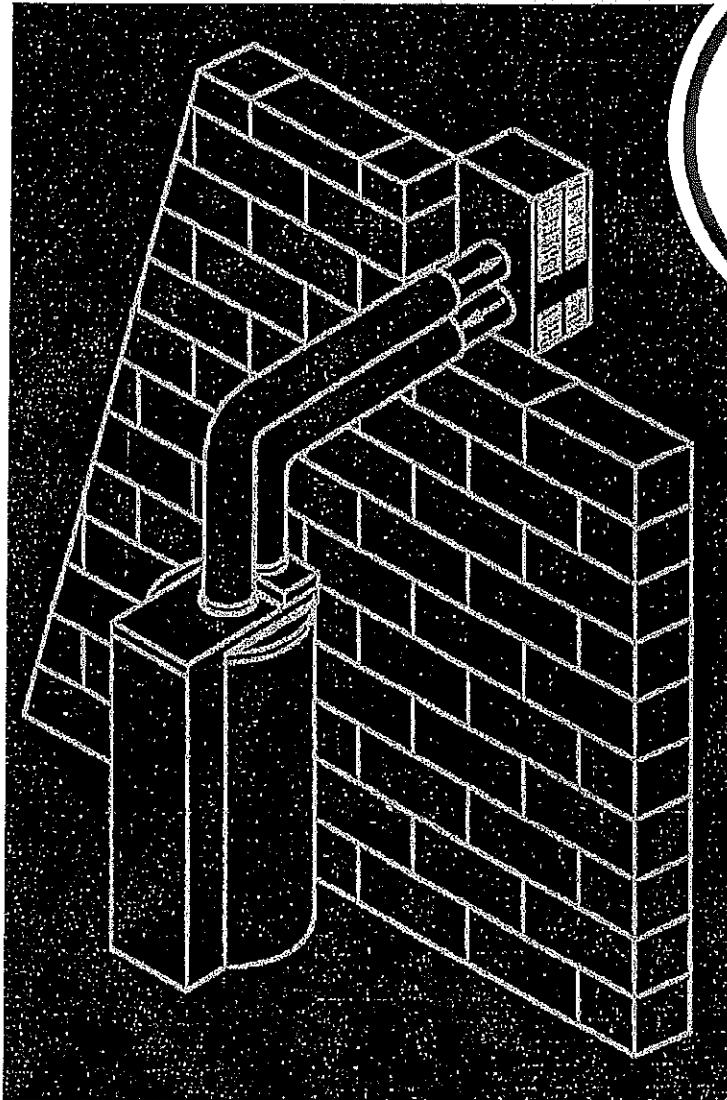


# ***Install a Rheem***

***Commercial and Industrial***



## **ROOM SEALED FLUE KIT**

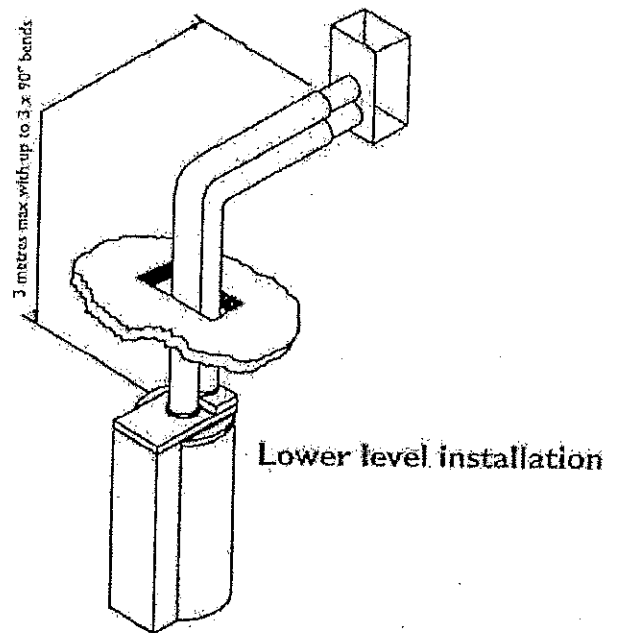
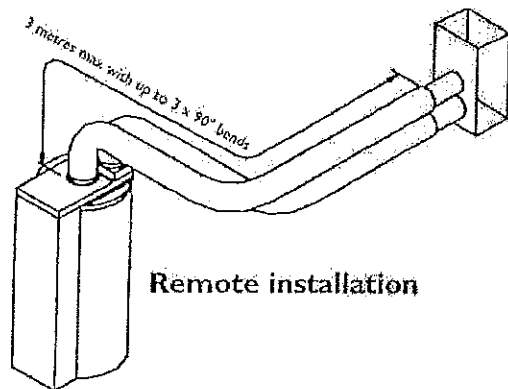
- ✓ **No need for power flue or fluing to the roof**
- ✓ **Fully installed from within plant room**
- ✓ **Ideal replacement for 'H' cowls**
- ✓ **Suits Rheem model 631275**
- ✓ **AGA Approved**
- ✓ **Horizontal fluing up to 3m**

# Sealed Balanced Flue Kit

The Rheem Room Sealed Balanced Flue Kit is designed to connect to a 631275 heavy duty gas water heater and re-use the existing balanced flue terminal at a remote horizontal location.

The room sealed kit is designed to carry flue products up to 3 metres total length with up to 3 x 90° bends.

This kit, where suitable, eliminates the need for fan assistance when discharging flue products horizontally or the need to run a flue to a satisfactory vertical discharge point (usually at the top of the building).

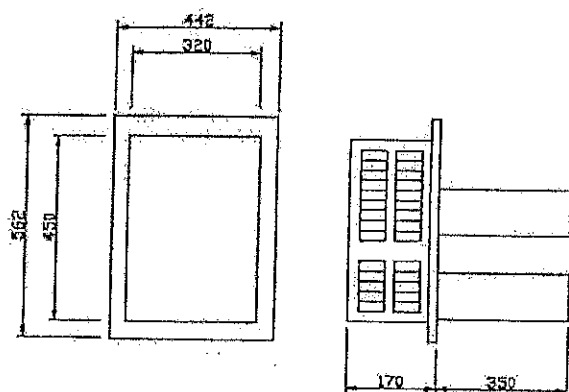


## Specifications

- Rheem Room Sealed Flue Kit Part No 299135
- Minimum room height required: 2400mm
- Maximum wall thickness: 300mm
- Flue capability: 3m horizontal / vertical with up to 3 x 90° bends
- Suits 150mm twin skin flue (not supplied in kit)
- Terminal: Powder coat black
- Grills: Stainless Steel

## Contact Details

New Zealand Sales 0800657 336  
New Zealand Service 0800 657 335  
For more Information on Rheem products, visit our web site at [www.rheem.co.nz](http://www.rheem.co.nz)



Terminal Dimensions

Materials and specifications are subject to change without notice

## Rheem 631275 Room Sealed Kit – Installation Instructions

### General

The Rheem Room Sealed Balanced Flue Kit is designed to connect to a 631275 heavy duty gas water heater and re-use the existing balanced flue terminal at a remote horizontal location.

The room sealed kit is designed to carry flue products up to 3 metres total length, with up to 3 x 90° bends.

This kit, where suitable, eliminates the need for fan assistance when discharging flue products Horizontally or the need to run a flue to a satisfactory vertical discharge point (usually at the top of the building)

We, recommend the kit installation be carried out in conjunction with, but before, installing the water heater

The following items have been supplied in the kit:

- Frame
- Terminal back plate
- Transition piece -air inlet
- Transition piece - flue outlet
- Wall plate
- Inlet air terminal
- Outlet flue flange
- Screws and masonry anchors

The following items will be required to complete the installation:

- Silicone (low temperature)
- Nominal 150mm inlet air and flue ducting. The transition pieces of the kit are designed to suit twin skin and flexible flue materials.

*Note – flexible flue materials to be used in accordance with NZS 5261.*

### Spacing

Flue installation must comply with local authority regulations and NZS 5261. Where multiple heaters are installed, the minimum centre to centre distance required between the flue terminals is 850mm.

## Removing the Flue Terminal

The following procedure is to be followed to remove the terminal from the water heater:

1. Remove the 7 screws holding the black terminal and air duct assembly to the water heater (keep these screws for re-assembly) (see fig 1)

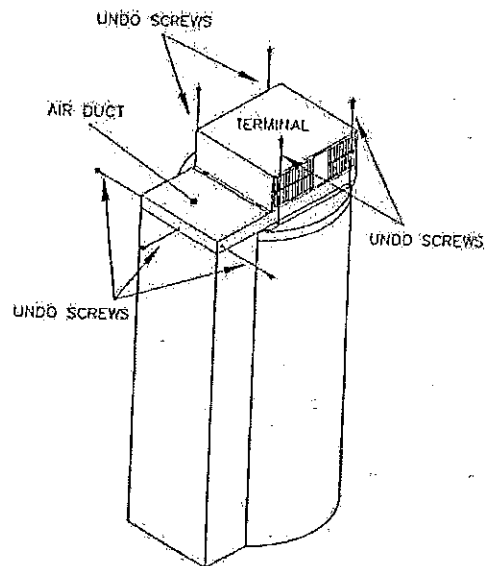


Fig. 1 – Removing the Flue Terminal & Air Duct Assembly

2. Remove the entire assembly from the water heater
3. Place face up on a bench and remove 4 of the 6 screws holding the terminal to the air duct
4. Place up side down on a non-scratch surface, so as to not damage the terminal face, and undo the 2 remaining screws holding the terminal to the air duct (see fig 2)

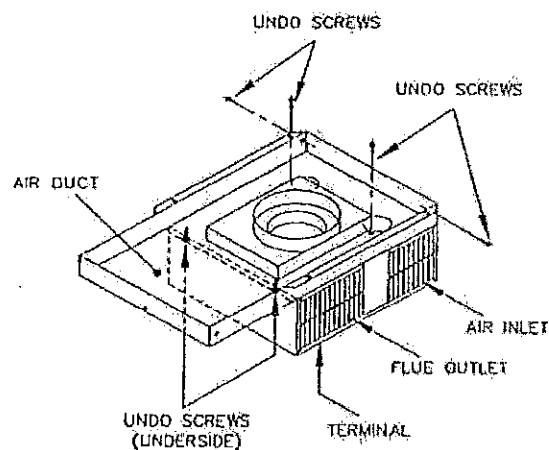


Fig. 2 – Removing the Air Duct from the Flue Terminal

5. IMPORTANT - the inner components of the terminal are now free to move within the terminal. Before moving the terminal, note and mark which end the components are in. This becomes the TOP of the terminal on assembly into the frame (see fig 3)

**Note - inner components are positioned in the long end of the terminal**

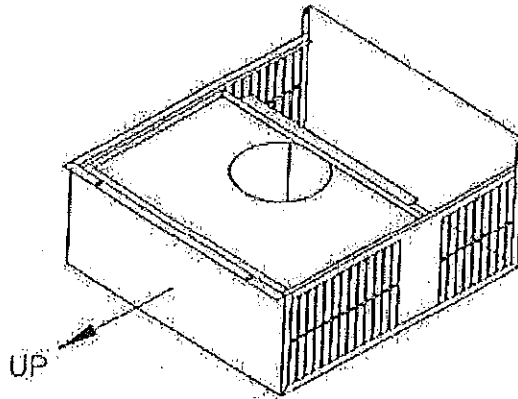


Fig. 3 – Terminal with Air Duct Removed

6. Fit the back plate to the terminal and secure with 4 of the 6 screws supplied (see fig 4)

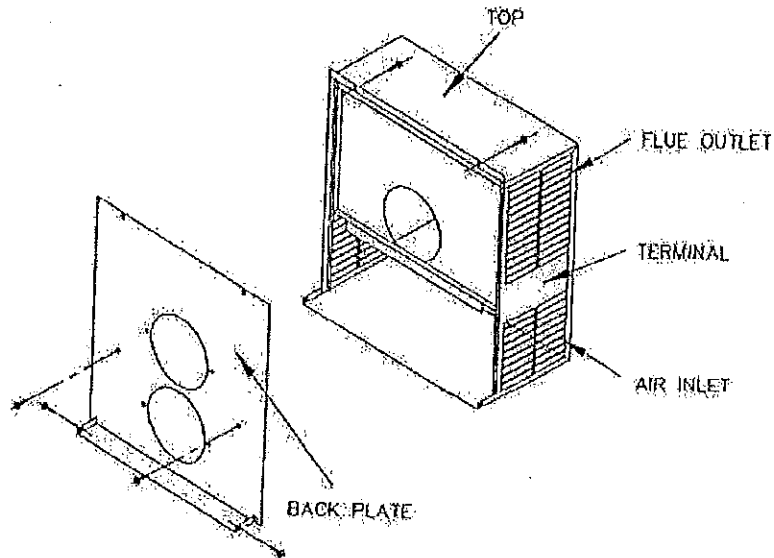


Fig. 4 – Fitting the Back Plate to the Terminal

7. Turn the terminal over and fit the 2 remaining screws (supplied) from the front face
8. Replace the air duct onto the water heater and secure with the 7 screws (saved)

### Fitting the Frame to the Wall (see fig. 5)

1. Using the frame as a guide, reverse the frame, and mark out the hole to be made to suit the terminal. The inner edge of the frame has a flange on 3 sides. The side without the flange is the bottom  
Minimum hole dimensions are 345mm wide x 470mm high  
Maximum hole dimensions are 355mm wide x 480mm high  
The bottom inside edge of the frame is to be no less than 1975mm above the floor level the water heater is sitting on.

**Note - for simplicity of installation, it is recommended to locate the terminal directly behind the water heater. However this is not mandatory. Installation of flue terminals is to comply with local authority regulations and NZS 5261**

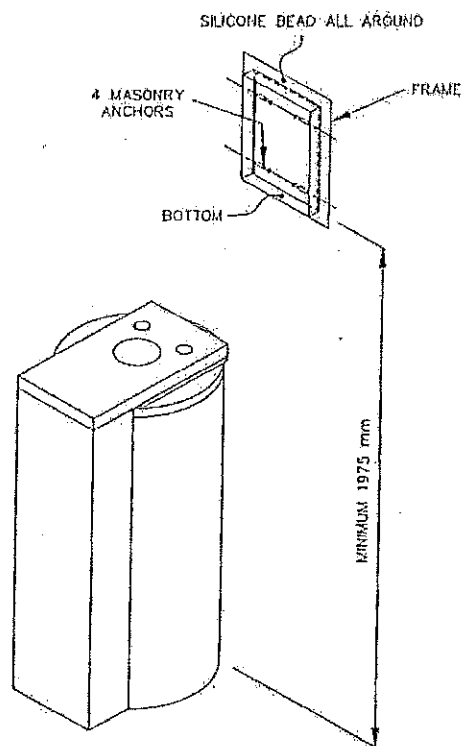


Fig. 5 – Minimum Terminal Height Requirement

2. Cut out the hole in the wall
3. Fit the frame through the wall and pull back against the outside wall surface. Check for flush fit and orientation is square
4. Ensuring the minimum 1975mm dimension required in (1) above is maintained, use the frame as a template and mark and drill four 5mm holes in the block work to secure the frame.
5. Before refitting the frame, run a bead of silicone all the way around the underside of the frame to seal against the outside wall surface. Ensure sufficient silicone is used to fill irregularities in the wall surface
6. Fit the frame, sealing against the outside face, and secure with 4 masonry anchors (supplied)

### Fitting the Balanced Flue Terminal

1. Run a bead of silicone around the flanged edge of the terminal and fit the assembly into the frame

**Note - the inner components of the terminal are at the top**

2. When firmly located, fit 2 retaining screws (supplied) into the mating holes in the frame

### Fitting the Transition Pieces (see fig 6)

1. Slip the 2 transition pieces apart. The larger diameter piece is the flue outlet and fits through the top hole in the back plate, with the flat section facing towards the air inlet hole below

**Note - the spigot must mate with the inner hole of the terminal**

2. Secure with 2 screws (supplied)
3. Fit the air inlet transition piece to the back plate, with the flat section facing towards the flue outlet transition piece above. Secure with 2 screws (supplied)
4. Fit the wall plate over the transition pieces, mark holes on wall, drill holes and secure wall plate with 4 masonry anchors (supplied)

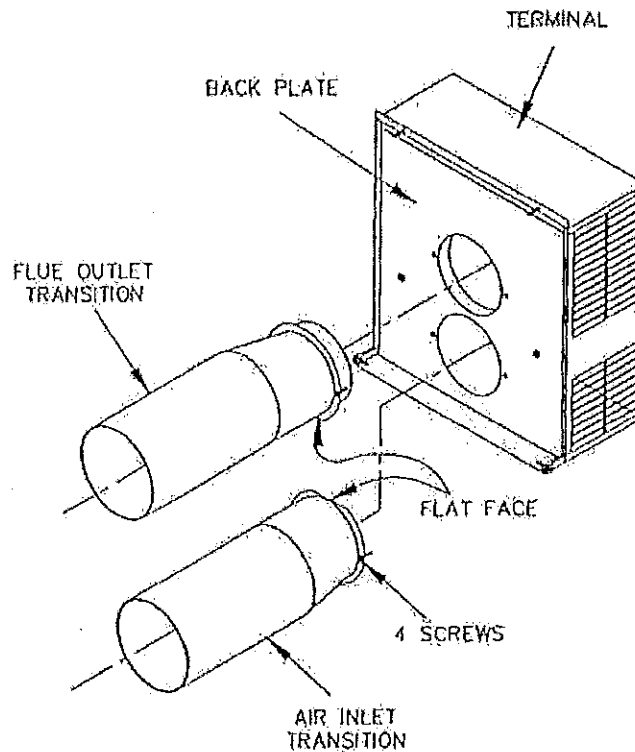


Fig. 6 – Fitting the Transition Pieces

### Fitting the Heater Terminals and Flue Ducts (see fig 7)

1. Fit the flanged flue ring over the primary flue. Do not secure at this stage
2. Fit the black air inlet terminal to the heater and secure with 4 screws (supplied)
3. Secure the flue ring with 2 screws (supplied)
4. The water heater is now ready for plumbing and flue connections.

Move the water heater into position and check sufficient space is available for flue installation, plumbing fixtures, access etc before making final plumbing and flue connections

**Note - 3m total flue run plus 3 x 90° bends, per duct**

5. Connect between air inlet transition and air inlet terminal on water heater with 150mm flue material, saddling ductwork as required
6. Connect between flue outlet transition and flue ring on water heater with 150mm flue material, saddling ductwork as required

**Note - it important that the outlet flue has a slight gradient up towards the terminal to allow correct fluing to occur**

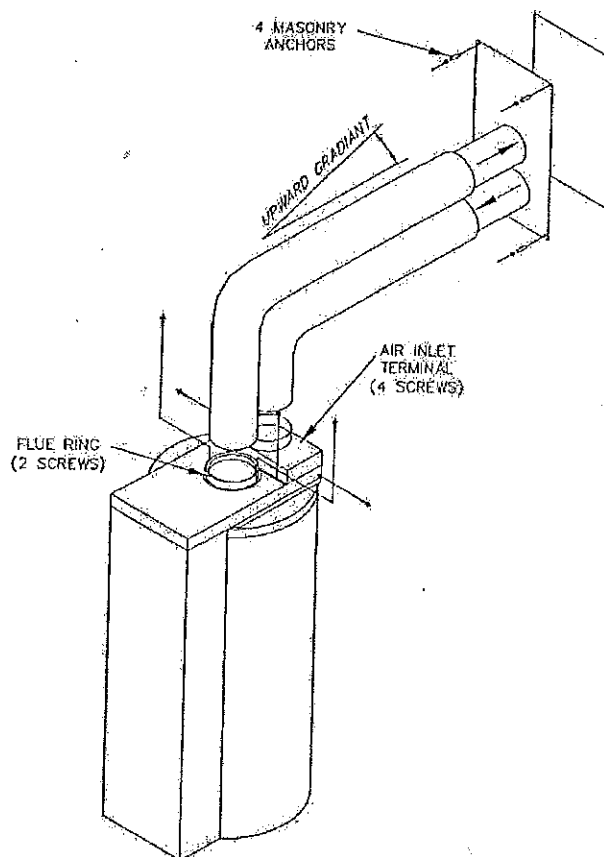


Fig. 7 – Final Flue Connections