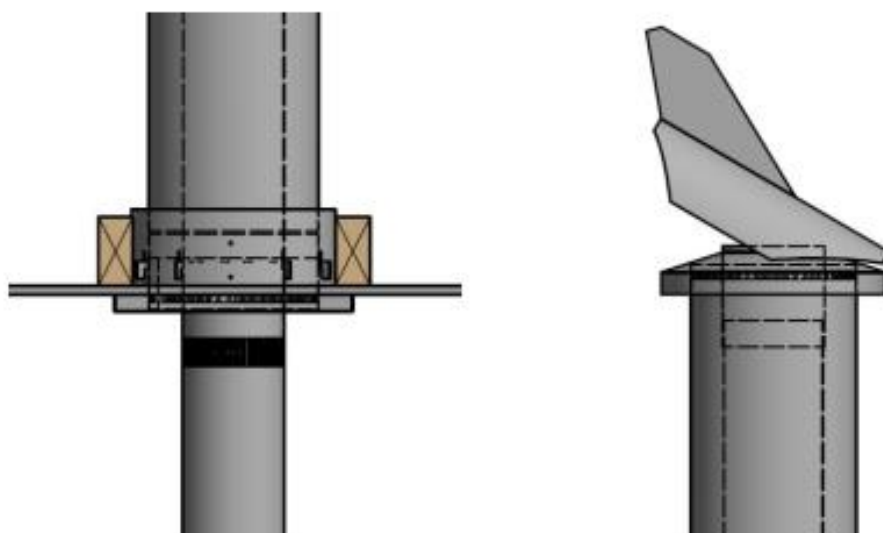


# HeatSaver Flue Kit

## Installation Instructions

### For Solid Fuel Appliances



The installation of any Woodsman solid fuel burner requires a Building Consent prior to installation commencing. We recommend the installation of a Woodsman solid fuel burner or flue system be undertaken by the holder of a current SFAIT (Solid Fuel Appliance Technician) qualification issued by the NZHHA (New Zealand Home Heating Association) [www.nzhha.co.nz](http://www.nzhha.co.nz).

**KEEP THESE INSTRUCTIONS FOR FUTURE REFERENCE**

Proudly Manufactured By:



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# Installation Instructions

**We recommend this appliance be installed by a trained and NZHHA qualified installer.**

**Warning:** the appliance and flue system shall be installed in accordance with AS/NZS 2918 and the appropriate requirements of relevant building code/codes.

**Warning:** appliances installed in accordance with this standard shall comply with the requirements of CM1.5 where required by the regulatory authority, i.e. the appliance shall be identifiable by a compliance plate with the marking "Tested to CM1.5".

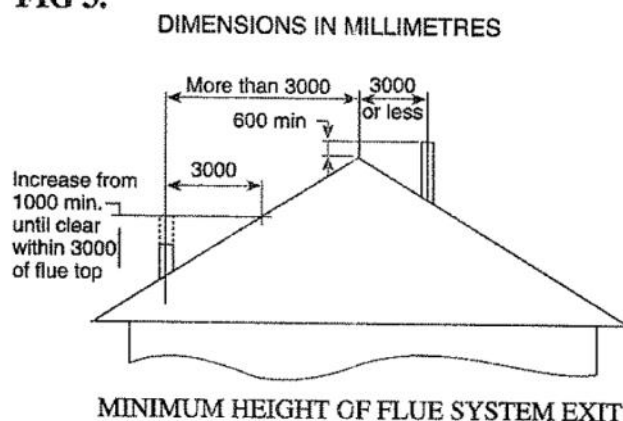
**Caution:** mixing of appliance or flue system components from different sources or modifying the dimensional specification of components may result in hazardous conditions. Where such action is considered, the manufacturer should be consulted in the first instance.

## Minimum Flue Height

The top of the flue system should be at least 600mm above the highest point of the roof ridge-line, if the point of intersection of the flue system and the roofline is less than 3 metres from the ridgeline horizontally.

If the point of intersection of the flue system and the roofline is greater than 3 metres horizontally, the top of the flue system shall be at least 1 metre above the point of intersection with the roofline. (refer FIG 3)

**FIG 3.**



These are considered to be **minimum dimensions**, and depending on local conditions, **taller flue system heights may be required for satisfactory performance. The total flue height should be no less than 4.6m from the level of the hearth.**

## Flue Installation Detail

Your Woodsman appliance should be installed with a HeatSaver Flue System.

A HeatSaver Flue System is available from all authorised Woodsman dealers throughout New Zealand.

The HeatSaver Flue System contains a complete installation drawing and correct clearances from the ceiling level up. Minimum clearances from the appliance to nearby combustible surfaces are given in the Woodman

Use of a flue system other than a genuine HeatSaver Flue System may affect the safety of the installation, and may affect your warranty.

**Insist on a genuine HeatSaver Flue System.**

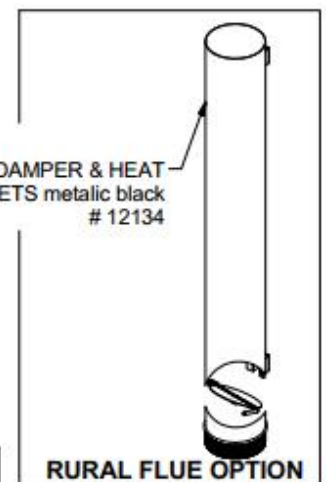
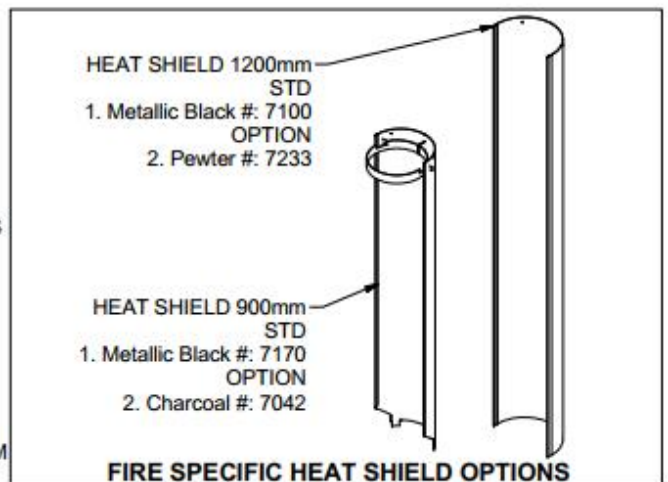
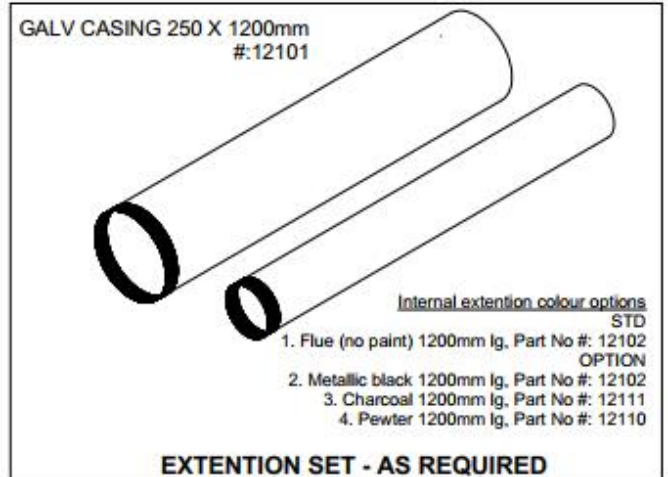
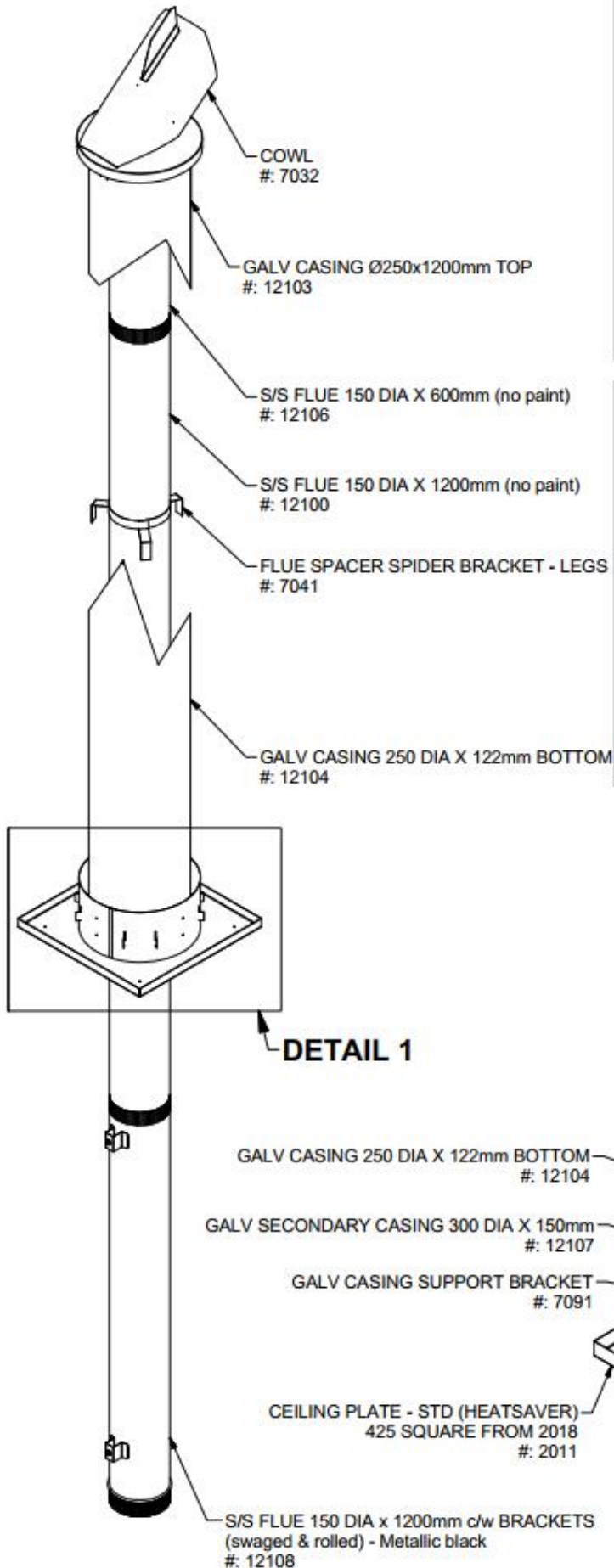
# HeatSaver Flue Kit Installation



## INSTALLATION INSTRUCTIONS

- This HeatSaver flue system is tested and certified to AS/NZS 2918:2001 Appendix F, which means it is approved for use on all solid fuel appliances with a flue diameter of 150mm.
- A copy of the Laboratory Test Certificate for this HeatSaver Flue System is included as part of these Installation Instructions, (refer to paperwork with flue kit).
- Installation of any solid fuel appliance should only be carried out by suitably trained and qualified personnel.
- Position the stove to the desired position, always ensuring that the manufacturer's minimum clearances to combustibles are complied with.
- Check that there are no roofline ridges or valleys in the way, or if they cannot be avoided, that the installer knows how to weatherproof the penetration and reinstate the full strength of the structure.
- At the ceiling level, construct a square frame of 300mm x 300mm internal dimensions and cut away the ceiling materials from the inside of this frame.
- Lower the 300mm flue pipe casing into this frame and nail in place when the bottom edge is 25mm below the ceiling level and the 8 nail holes provided are touching the timber frame. Ensure that the spacer brackets are at the top of the casing as shown in the diagram.
- Check all 4 locating brackets are securely in place and drop 250mm diameter lower casing in place. This will naturally settle so it protrudes 25mm below the ceiling.
- Make roof penetration, assemble and fit required flue length and install with upper casing. Secure all joins with at least 3 stainless steel rivets or self tapping screws.
- Frame and brace upper installation as required and flash the roof to shield penetration.
- Fit ceiling plate to ceiling.
- When trimming the stainless steel flue length, remember to allow for expansion when flue is hot. Fix HeatSaver Columbia Cowl in place using 3 screws.
- Secure the flue to the fire, drill through flue neck on fire and secure with 2 to 3 s/s screws or rivets.
- All flue joints should be sealed using a flue cement.
- Ensure a 25mm clearance from the 250mm diameter casing to any combustible material.

# HEAT SAVER II FLUE KIT



## **IMPORTANT**

### **All Flue Joints Are Required To Be Sealed Using Flue Cement**

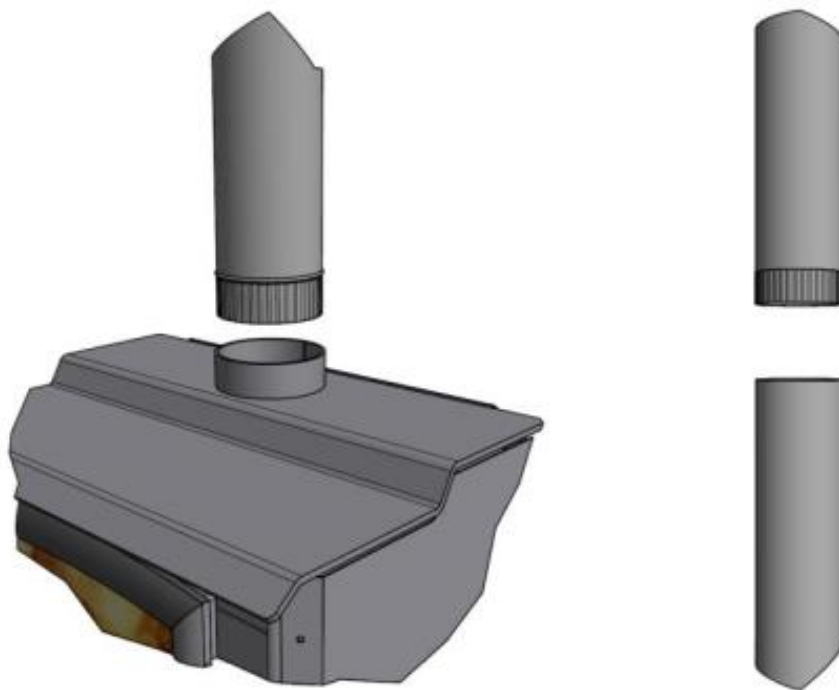
It is extremely important that ALL flue joints are sealed at the time of installation using flue cement or a suitable exhaust cement.

Woodsman fires are designed and tested with all flue joints sealed.

If flue joints are not sealed properly, it can lead to performance issues with the fire such as;

- Lower heat output of the fire, due to decreased performance
- Blocked flue
- Smoke coming out the door when open, due to decreased suction
- Hard to light

The formation of soot and creosote will not seal the flues, especially on the lower lengths, as the high temperatures inhibit its formation.



Any issues that arise as a result of the flues not being sealed, are not covered by the warranty and are not the responsibility of the manufacturer.

It is the installer's responsibility to ensure that this is done at the time of installation.



# Fitting Factory Flue Shields

Your HeatSaver Flue System comes standard with a factory flue shield of one of 2 types;

- **900mm high**, contains 1 x painted metal strap. This is used for the Woodsman ECR, Blaze, Boston, Manhattan, RMF and Milford.
- **1200mm high**, This is suitable for the Woodsman Brunner, Tasman, Aspen, Tarras, Strongman and other branded fires which can use 1200mm high single heat shields.

## Fitting the 900mm High Flue Shield

1. The heat shield has 2 'tabs' at the bottom which corresponds to 2 slots on the fire behind the flue neck. Insert the tabs.
2. Take the metal strap and fold the two ends around the flue until they meet at the back of the flue at about the height of the top of the heat shield.
3. Hold both ends together and push the tabs through the single slot at the back of the heat shield and fold out tabs to secure in place.

## Fitting the 1200mm high heat shield

Your lower length of painted flue already has 2 location brackets attached.

1. Ensure these brackets are facing towards the back wall and centralised.
2. Secure the flue shield in place with screws



1200mm Flue Shield

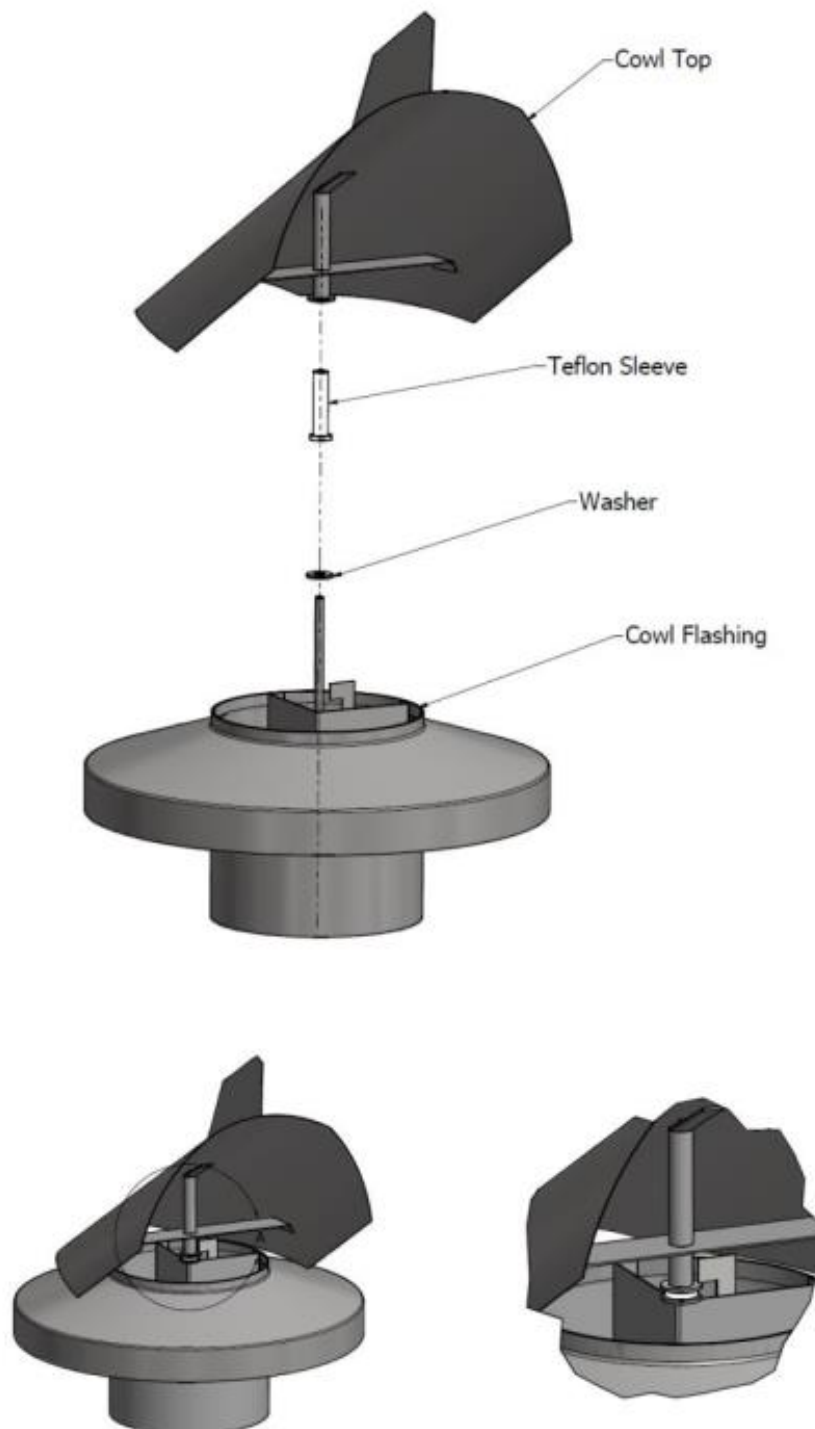


900mm Flue Shield

**\*IMPORTANT - Flue shields should be no further than 10mm off the top of the fire box\***

# Columbia Cowl

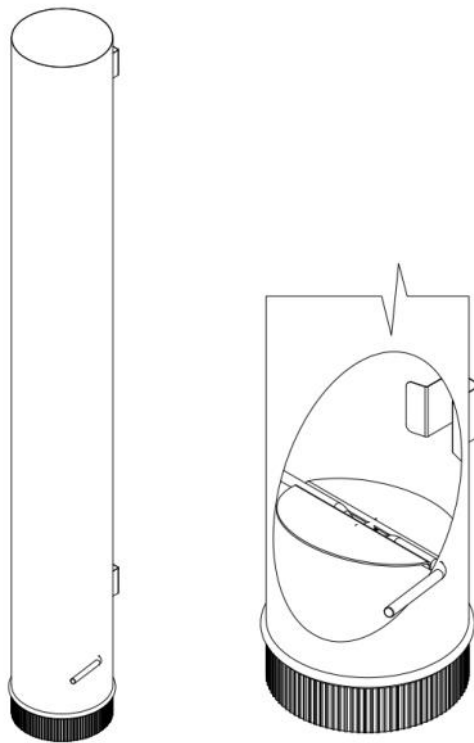
Your Columbia Cowl is fitted with a Teflon Sleeve to reduce noise and wear. The Teflon Sleeve may need to be replaced over the life of the fire and should be checked during an annual service or when the flue is cleaned. If the shaft is dry and dirty, it should be cleaned back to a bare metal finish and a thin layer of graphite or high temperature grease applied before replacing the Teflon Sleeve. Older versions of the Columbia Cowl do not have a Teflon Sleeve and require re-greasing one to two times a year.



# Rural Flue Option

If you are on a property of 2 Ha or more or local regulations permit, you have the choice of installing the Rural Option for the Standard heat Saver Flue system. This is simply the standard Heat Saver Flue system with the optional piece of 150 X 1200 mm stainless flue length with butterfly damper supplied as standard. This piece is fitted directly into the spigot of the fire in place of the standard flue pipe. The factory shield is fitted as normal.

Alternatively you can purchase the optional piece of 150 X 1200 mm stainless flue length with butterfly damper fitted separately, and fit it to an existing Woodsman Wood Burner if local regulations permit.



## **Rural Flue Damper operating suggestions:**

- 1) Your Woodsman fire must always be started with the flue damper open.
- 2) Once the fire has been burning for some time, and the home has been fully warmed, the damper may be used for long holding operation. This is useful for leaving the home for a few hours or overnight burning.
- 3) Turn the handle so that it sits horizontal (closed) for a slow burn and turn vertical (open) for maximum performance and heat output.
- 4) To ensure efficient burning it is advised to leave the damper open for 10mins after each new load of wood is added.

## **Caution:**

- 1) Always ensure the damper is open before opening the fire door.
- 2) Using the fire with the damper shut too often, will cause the flue system to block quickly and will require cleaning regularly.
- 3) When the fire is operating, the damper handle should never be touched with bare hands as it will be very hot. Use a mitt or tool.
- 4) Operating the flue damper before the fire is not fully warmed up will prevent the fire from reaching correct operating temperature resulting in low heat output and possibly other performance issues.



Report 09/1943

January 27th, 2009

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CHRISTCHURCH

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Accreditation

Laboratory Registration Number 395

This laboratory is accredited by International Accreditation New Zealand (IANZ). The tests reported herein have been performed in accordance with the terms of our accreditation. This accreditation does not extend to any opinions or any interpretations of test results contained in this report.



IANZ has a Mutual Recognition Arrangement (MRA) with the National Association of Testing Authorities (NATA), Australia, such that both organizations recognize accreditations by IANZ and NATA as being equivalent. Users of test reports are recommended to accept test reports in the name of either accrediting body.

Compliance Certificate

Appliance: HeatSaver 150 mm Diameter Flue Kit

Test Standard: AS/NZS2918:2001 Appendix F

Full Report: 02/749R

(The full report contains the information on the test methods, details of the appliance tested and the results of the test)

**This report:**

Prepared by: W. S. Webley

*W S Webley*

Approved by: W. S. Webley

*W S Webley*

Release Date:

*2/3/09*

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