Riva Studio
In-Built Convector

Instructions for Use, Installation & Servicing
For use in NZ (New Zealand)

These products are tested in accordance with AS/NZ 4012:1999, AS/NZ 4013:1999 and AS/NZ 2918:2001 and comply with the NZ NES and ECAN Emissions requirements.

In New Zealand, the Studio must be bolted through to the hebel or base to comply with the seismic restraint provisions of AS/NZ 2918:2001

IMPORTANT
THE OUTER CASING, FRONT AND GLASS PANEL BECOME EXTREMELY HOT DURING OPERATION AND WILL RESULT IN SERIOUS INJURY AND BURNS IF TOUCHED. IT IS THEREFORE RECOMMENDED THAT AN APPROVED FIREGUARD IS USED IN THE PRESENCE OF YOUNG CHILDREN, THE ELDERLY OR INFIRM.
CAUTION: THIS APPLIANCE SHOULD BE MAINTAINED AND OPERATED AT ALL TIMES IN ACCORDANCE WITH THESE INSTRUCTIONS.
Keep them in a safe place for future reference and when servicing the fire.
The commissioning sheet found on page 3 of these instructions should be completed by the Installer.
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**Riva Studio Cassette - In-Built Convector**

Covering the following models:

RVS2NZ

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**The Riva Studio 2 NZ has been authorised by the Environment Canterbury as meeting the emissions and efficiency criteria.**

**Ecan Authorisation Number: 133649**

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**WARRANTY**

Your Stovax retailer provides you with a Two Year Warranty for your new product. However, this specifically excludes naturally wearing parts or ‘consumables’ and the use of unauthorised fuels.

Some Stovax products will also qualify for a Five Year Warranty on cast iron parts such as cast iron carcasses and cast iron doors of steel bodied stoves. Again, this excludes naturally wearing cast iron parts.

For these extended warranties to be valid your stove must have been installed in accordance with the manufacturer’s instructions and the second and subsequent year’s warranties are dependant on the appliance being serviced within 12 months of installation by an appropriately qualified technician and annually thereafter.

Please check the Warranty Statement on the Stovax website www.stovax.com for up-to-date list of conditions.
To assist us in any guarantee claim please complete the following information:

**Dealer appliance was purchased from:**

Name:

Address:

Telephone number:

**Essential information - MUST be completed:**

Date Installed:

Model Description:

Serial Number:

**Installation Technician:**

Company Name:  
SFAIT License No

Address:

Telephone number:

**Commissioning Checks - to be completed and signed:**

<table>
<thead>
<tr>
<th>Check</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is flue system correct for the appliance:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flue swept and soundness test complete*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Smoke test completed on installed appliance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spillage test completed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Use of appliance and operation of controls explained</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Clearance to combustible materials checked</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Instruction book handed to customer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Smoke Alarm Fitted (Mandatory)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CO Alarm Fitted (Recommended)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*If using an existing flue system - not applicable for a new flue assembly

Signature: .................................................................  Print Name: .................................................................
Welcome

Congratulations on purchasing your Stovax Riva Studio. If installed correctly Stovax hope it will give you many years of warmth and pleasure for which it was designed.

The purpose of this manual is to familiarise you with your appliance, and give guidelines for its installation, operation and maintenance. If, after reading, you need further information, please do not hesitate to contact your Stovax retailer.

1. General Points

1.1 Before installation and/or use of this appliance please read these instructions fully and carefully to ensure that you have fully understood their requirements.

The appliance must be fitted by a licensed installer* or approved by your local building control officer.

1.2 All local regulations and national standards need to be complied with when installing the appliance.

1.3 Only use for domestic heating in accordance with these operating instructions.

1.4 You must burn only approved fuels. Do not use with liquid fuels or as an incinerator.

1.5 WARNING: DO NOT USE FLAMMABLE LIQUIDS OR AEROSOLS OR PLACE THESE IN THE VICINITY OF THIS APPLIANCE WHEN IT IS OPERATING.

1.6 WARNING: DO NOT STORE FUEL WITHIN THE HEATER INSTALLATION CLEARANCES.

1.7 CAUTION: THIS APPLIANCE SHOULD NOT BE OPERATED WITH CRACKED GLASS.

1.8 Please note that all parts of these stoves and particularly the glass panel in the door become extremely hot during operation and can result in serious injury and burns if touched. It is therefore recommended that a approved fireguard is used in the presence of young children, the elderly or infirm.

1.9 Do not place photographs, TV’s, paintings, porcelain or other combustible items on the wall or near the appliance. Exposure to hot temperatures will cause damage. Do not place furniture or other items such as drying clothing closer than 1m from the front of this appliance.

WARNING: Extra fuel should not be stored on or next to the appliance. Only keep enough fuel for immediate use nearby and never leave the appliance unattended for long periods with any combustible material in close proximity.

1.10 Extractor fans or cooker hoods must not be positioned in the same room as the appliance, as they evacuate room air and can cause fumes to vent back into the room.

1.11 Do not obstruct room air replacement ventilation required for the safe use of this appliance.

1.12 WARNING: ANY MODIFICATION OF THE APPLIANCE THAT HAS NOT BEEN APPROVED IN WRITING BY THE TESTING AUTHORITY IS CONSIDERED TO BE IN BREACH OF THE APPROVAL GRANTED FOR COMPLIANCE WITH AS/NZS 4013.

1.13 The chimney must be swept and the appliance inspected at least once a year (see User Instructions, Section 11).

1.14 Do not connect, or share, the same flue or chimney system with another appliance.

SERIAL NUMBER LOCATION

1.15 This number is required when ordering spare parts or making warranty claims.

It is found on the appliance data plate, see Diagram 1.

AIR CONTROLS

Triple Air Systems

Stovax appliances have air systems providing cleaner burning, and greater efficiency and control.

1) Primary Air - the source of Primary Combustion air when burning wood. The Primary Air Control is used to adjust the burn rate of the fire whilst air drawn over the window cleans the glass.

Open = High temperature
Closed = Low temperature

2) Secondary Air - Secondary air is preheated through a heat exchanger to combust unburned hydrocarbons, providing a cleaner and more efficient burn. This air supply is also factory set.
Getting Started

WARNING

Properly installed, operated and maintained this appliance will not emit fumes into the room but occasional fumes from de-ashing and refuelling may occur.

Persistent fume emission is potentially dangerous and must not be tolerated.

If fume emission persists:

• Open doors and windows to ventilate the room.
• Leave the room.
• Allow fire to burn out or safely dispose of fuel from the appliance.
• Check for chimney blockage and clean if required.
• Do not attempt to relight until the cause of the emission has been identified and corrected.
• If necessary seek expert advice.
• All open flued appliances can be affected by temporary atmospheric conditions which may allow fumes to enter the house. Because of this it is recommended that an electronic carbon monoxide detector together with a mandatory smoke alarm be fitted and maintained.

IF THE ALARM SOUNDS FOLLOW THE INSTRUCTIONS GIVEN UNDER WARNING ABOVE.

2. Using The Appliance For The First Time

2.1 To allow the appliance to settle, and fixing glues and paint to fully cure, operate the appliance at a low temperature for the first few days.

2.2 Do not touch the paint during the first period of use.

2.3 During this time the appliance may give off some unpleasant odours. Keep the room well ventilated to avoid a build-up of fumes.

2.4 Please be aware that, during use, rope seals may discolour. This is normal.

DO NOT OPEN THE DOOR WITH BARE HANDS

DO NOT OPEN THE DOORS WHEN THE FIREBOX IS FULL OF FLAMES - wait for them to die down

1.16 Use a protective gloved hand to operate. Slide tool over knob to fit.

1.17 Move to the left to open, see Diagram 3.

Secondary Air Inlet - Factory Set
User Instructions

3. Recommended Fuels

3.1 Wood Logs:

**Burn only seasoned soft wood timber** with a moisture content of less than 20%. To ensure this allow cut wood to dry for 12 to 18 months.

Wood Length

<table>
<thead>
<tr>
<th>Appliance</th>
<th>Wood Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Riva Studio 2</td>
<td>250mm - 400mm</td>
</tr>
</tbody>
</table>

Wood logs should be stored in a well ventilated, dry, covered area.

Poor quality timber:
- Causes low combustion efficiency.
- Produces harmful condensation.
- Reduces effectiveness of the Upper Primary Control and life of the appliance.

**Do not burn construction timber, painted, impregnated / treated wood, manufactured board products or pallet wood.**

**CAUTION: THE USE OF SOME TYPES OF PRESERVATIVE-TREATED WOOD AS A FUEL CAN BE HAZARDOUS.**

4. Lighting the Appliance

4.1 For best results set air control as shown, see Diagram 5.

**WARNING: DO NOT USE FLAMMABLE LIQUIDS OR AEROSOLS TO START OR REKINDLE THE FIRE.**

4.2 Place firelighters or paper and dry kindling wood on the base.

4.3 Light the paper or firelighters, see Diagram 6.

4.4 Leave the door slightly open for a few minutes as the fire establishes and the glass warms. This will avoid build up of condensation.

4.5 Add larger pieces of wood.

**NOTE:** Too many logs may smother the fire or lead to over firing the appliance.

**Fuel Loading:**

These are wide appliances and the logs should be laid out in a single layer with gaps between, see Diagram 7.

**Do not stack the logs on top of each other as this could effect the efficiency.**

**DO NOT OVERLOAD THE APPLIANCE AS THE HEAT OUTPUT WILL BE TOO HIGH AND CAN LEAD TO PERMANENT DAMAGE TO THE APPLIANCE.**

Be sure to use split logs and not whole pieces of wood. Too much fuel in the firebox will cause the appliance to reach higher temperatures than intended. This can damage the interior components of the fire.

**Suggested Loads:**

3/4 logs no bigger than 5” (127mm) diameter

4.6 Close the door.

**WARNING:** Do not leave the door open as this could over-fire and damage the appliance.

**WARNING:** Do not operate the appliance with the air control fully open for long periods of time as this could cause over-firing and may cause permanent damage.
5. Running the Appliance

Burning Wood

5.1 Use the Air Control to control the burn rate to achieve the desired temperature, see Diagram 8.

Wood burns best on a bed of ash (approx. 25mm (1") deep).

5.2 Under normal circumstances do not burn large amounts of fuel with the Air Control closed for long periods of time. This reduces the glass cleaning effect, causes tars and creosotes to build-up in the appliance and flue system and will produce excessive amounts of smoke.

5.3 When in use, burning the appliance at a high temperature for a short period reduces tars and creosotes. **WARNING: DO NOT OPERATE THE APPLIANCE WITH THE AIR CONTROL OPEN FOR LONG PERIODS OF TIME AS THIS COULD CAUSE OVER-FIRING AND MAY CAUSE PERMANENT DAMAGE.**

Experience establishes settings to suit personal preference.

A bright and clean firebox indicates the appliance is burning well.

**BURN BRIGHT BURN RIGHT.**

Refuelling

5.4 Toward the end of the burn cycle open the Air Control for a few minutes. This increases the temperature of the ashbed, helping re-ignition of the new logs and keeps the ash to a minimum.

5.5 **CAUTION: OPEN AIR CONTROL BEFORE OPENING THE DOOR.**

5.6 Rake the embers evenly over the firebed and open the Control fully for a few minutes before re-fuelling.

5.7 Stack the logs in an open arrangement, see Section 4.5.

Open stacking allows oxygen to easily reach every part of the fire. Compact stacking will make the wood burn slower as air can only reach the outside of the fire. This will cause the fire to smoulder and produce smoke.

5.8 Burn the new logs at high temperature for a few minutes before closing the Air Control. Use the Air Control to adjust the burn rate to maintain combustion at the desired level.

<table>
<thead>
<tr>
<th>Open</th>
<th>Closed</th>
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<tbody>
<tr>
<td>High</td>
<td>Low</td>
</tr>
</tbody>
</table>

Do not close the Air Control until the fire is burning well. If the flames die away completely open the air control until flames re-establish.

Experience over time will dictate the ideal settings.

Shut Down

5.9 If there is still burning fuel in the firebox, Stovax do not recommend shutting down the Air Control completely unless there is a chimney fire in progress (see Section 10 for advice). Closing the control during the burning process will cause poor combustion and could lead to a build up of gasses that could ignite dangerously.

5.10 Always have enough air entering the stove to maintain some flame within the firebox.

5.11 If it is necessary to shut down the appliance then run on a high setting until all of the fuel has been burnt before closing the Air Control.

6. Extended Burning

6.1 It is possible to get the appliance to burn for extended periods of time. In order to do this:

— De-ash prior to final refuelling.
— Set Air Control to low combustion settings. This will gradually blacken the glass but it will clear when operated at a high temperature for a short period.

7. Ash Removal

7.1 Wood burns best on a bed of ash approximately 25mm deep. **Do not allow ash to build up in the appliance as it will not burn properly and may cause damage.**

7.2 Open door, see Diagram 3 on page 5.

7.3 Remove ash carefully with a small shovel (available from Stovax) - heat can remain long after use. Take care not to damage the ceramic lining of the appliance. Do not use sharp pointed pokers.

7.4 Carefully place the ash into a Stovax Ash Caddy (Stovax Part No. 4227) and take immediately outside to an area free from combustible material.

7.5 Only place ash in a non-combustible container with a tightly fitting lid.
8. When not in use

8.1 If the appliance is not used for long periods of time, during the warmer months for example, it should be cleaned and serviced as detailed in the Maintenance and Servicing section.

8.2 Set the Air Control to 50% to keep the appliance ventilated and stop the build-up of any moisture inside.

Before re-lighting the appliance:

— Remove the baffles and clear any debris that may have accumulated above them.
— Check the flue is clear of any blockages.

9. Over-Firing

9.1 Do not over-fill with fuel or run at high temperatures for long periods or over-firing can occur.

DO NOT OPERATE THE APPLIANCE WITH THE PRIMARY AIR CONTROL OPEN FOR LONG PERIODS OF TIME AS THIS COULD CAUSE OVER-FIRING AND MAY CAUSE PERMANENT DAMAGE.

9.2 Over-firing can cause permanent damage to the appliance and invalidate the product warranty.

10. Chimney Fire

10.1 If a chimney fire occurs:

— Shut all air controls immediately.
— Evacuate the building.
— Call the fire brigade.
— Do not re-enter the building until it is confirmed safe.

10.2 Do not use the appliance after a chimney fire until:

a) It has been inspected by a registered installer*, confirming the appliance is safe to use.

b) The chimney system has been inspected and swept by a chimney sweep, confirming the system is structurally sound and free from obstruction.

c) It is repaired as required before re-use. Use only genuine Stovax replacement parts to keep your appliance in safe, efficient working order.

11. Chimney Sweeping & Appliance Inspection

11.1 To maintain safe and efficient use of the appliance, the chimney/flue must be inspected and swept at least once a year and the appliance inspected by an appropriately qualified chimney sweep.

If the appliance is used continuously throughout the year more frequent sweeping and inspection is recommended.

The best time to have the chimney swept is at the start of the heating season.

11.2 The chimney, any connecting flue pipe and the appliance flue ways, if incorporated, must be regularly cleaned.

11.3 It is possible to sweep the chimney through the appliance once the baffles have been removed.

11.4 See Maintenance & Servicing section at the rear of this manual for further information.

12. Care Of Stove

Stovax has a range of cleaning and maintenance products and accessories to keep your appliance in good working order. Your Stovax retailer can advise you on suitable items for your stove and provide genuine spare parts such as replacement glass, door sealing rope and firebricks. View the extensive range at www.stovax.com by clicking on Accessories. In addition, an annual service by a competent technician is recommended to keep your stove in the best possible condition.

12.1 Clean and inspect the appliance regularly, especially in periods of heavy use. Regular cleaning and maintenance will help give many years of safe use.

12.2 Allow the appliance to cool thoroughly before cleaning to avoid risk of burns.

12.3 Keep the glass clean with the correct use of the Air Control system and good quality fuel.

12.4 Check the condition of the glass and clean if necessary.

Note: Do not use the appliance if the glass is damaged in any way.

*Installation is to be completed by a certified Solid Fuel Appliance Installation Technician (SFAIT) as required by the New Zealand Home Heating Association (NZHHA) conforming to AS/NZ 2918:2001.
12.4 Sometimes additional glass cleaning may be required.

— Allow appliance to cool fully. Do not clean hot glass.

— Use a soft cloth and Stovax Glass Cleaner.

12.5 **Do not use cleaning agents that have a high alkaline content, for example Stovax Gel Cleaner, on appliances with painted glass. These are abrasive cleaning agents that are designed to be used with heavily stained clear glass. Use Stovax Glass Cleaner (Stovax No.4103) on more delicate surfaces.**

12.6 Before re-lighting the appliance dry the glass fully.

12.7 Check the condition and security of the door rope seals and replace if seals are no longer intact.

12.8 Remove the ash completely (see User Instructions, Section 7).

12.9 Check the internal components for damage (bricks and baffles) and for obvious build up of soot, ash or debris above the flue baffle(s) (these can be found in the upper part of the firebox). Use a torch if necessary.

If there are any signs of a build up of debris above the flue baffle(s) either:

— Arrange for the chimney to be swept (see User Instructions, Section 11).

— Remove the baffle(s) (see Pre-Installation, Sections 5 - 6) and clear the debris.

12.10 To refresh painted finishes a touch up spray is available from your Stovax dealer (Stovax No.2053).

**Do not use aerosol sprays near an operating appliance.**
## Troubleshooting

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<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
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<td><strong>OPERATION</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Difficulty starting the fire and keeping it burning well</td>
<td>Low flue draught</td>
<td>Consult your installer</td>
</tr>
<tr>
<td></td>
<td>Wet wood (over 20% moisture)</td>
<td>Use dry seasoned wood (less than 20% moisture content)</td>
</tr>
<tr>
<td>Poor burning control</td>
<td>High flue draught</td>
<td>Consult your installer</td>
</tr>
<tr>
<td>Short burn times</td>
<td>Wet wood (over 20% moisture)</td>
<td>Use dry seasoned wood (less than 20% moisture content)</td>
</tr>
<tr>
<td>Excessive heat output (Over firing)</td>
<td>High flue draught</td>
<td>Consult your installer</td>
</tr>
<tr>
<td></td>
<td>Air control left fully open</td>
<td>Close air control to reduce output</td>
</tr>
<tr>
<td>Low heat output</td>
<td>Low flue draught</td>
<td>Consult your installer for advice on suitable flue system</td>
</tr>
<tr>
<td></td>
<td>Wet wood (over 20% moisture)</td>
<td>Use dry seasoned wood (less than 20% moisture content)</td>
</tr>
<tr>
<td>Excessive fuel consumption</td>
<td>High flue draught</td>
<td>Consult your installer for advice on suitable flue system</td>
</tr>
<tr>
<td></td>
<td>Over dry wood</td>
<td>Do not use constructional timber or pallet wood</td>
</tr>
<tr>
<td><strong>SMOKE EMISSIONS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Smoke and small flames</td>
<td>Wet wood (over 20% moisture)</td>
<td>Use dry seasoned wood (less than 20% moisture content)</td>
</tr>
<tr>
<td>Intermittent smoke spillage into room when appliance door is opened</td>
<td>Low flue draught</td>
<td>Consult your installer for advice on suitable flue system</td>
</tr>
<tr>
<td></td>
<td>Air replacement inadequate</td>
<td>Consult your installer</td>
</tr>
<tr>
<td>Continuous smoke spillage into room when appliance in use</td>
<td>Blocked flue</td>
<td>Open all doors and windows to ventilate the room. Allow the fire to burn out. Check flue for blockage. Do not re-use until cause of spillage is identified. Consult your installer for advice</td>
</tr>
<tr>
<td>Blue/grey smoke from chimney</td>
<td>Wet wood (over 20% moisture)</td>
<td>Use dry seasoned wood (less than 20% moisture content)</td>
</tr>
<tr>
<td><strong>ADVERSE WEATHER</strong></td>
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<td></td>
</tr>
<tr>
<td>Windy days, intermittent smoke spillage into room when appliance door is opened</td>
<td>Down draught in flue caused by air turbulence caused by nearby buildings or trees</td>
<td>Weather conditions combined with the flue terminal position can have an effect on the appliance performance. Consult your installer</td>
</tr>
<tr>
<td>Calm days, intermittent smoke spillage into room when appliance door is opened</td>
<td>Damp heavy air and poor flue draft</td>
<td>Weather conditions combined with the flue terminal position can have an effect on the appliance performance. Consult your installer</td>
</tr>
<tr>
<td>Damp/Rainy days lighting and burning problems</td>
<td>Low flue temperature/damp heavy air outside</td>
<td>Pre-heat flue with burning paper. Use good quality wood to start and maintain the fire.</td>
</tr>
<tr>
<td>Wind noise from the air control</td>
<td>High flue draught</td>
<td>Consult your installer for advice on suitable flue system</td>
</tr>
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</table>
### Troubleshooting

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<tr>
<th>THE APPLIANCE</th>
<th>FLUES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Problem</strong></td>
<td><strong>Solution</strong></td>
</tr>
<tr>
<td>Rapid creosote build-up in the chimney</td>
<td>Use dry seasoned wood (less than 20% moisture content). Operate at a high temperature for short periods each time the appliance is used to avoid large build-ups of tars and creosotes.</td>
</tr>
<tr>
<td>Tar coming from exposed flue joints</td>
<td>Operate at a high temperature for short periods each time the appliance is used to avoid large build-ups of tars and creosotes. See user instructions for correct use of air control.</td>
</tr>
<tr>
<td>Strong pungent smell after the appliance is lit</td>
<td>Operate at high output for short periods. See user instructions for correct use of air control.</td>
</tr>
<tr>
<td>Wind noise from the air control</td>
<td>Consult your installer for advice on suitable flue system.</td>
</tr>
<tr>
<td>Dirty firebricks</td>
<td>Use dry seasoned wood (less than 20% moisture content).</td>
</tr>
<tr>
<td>Dirty glass</td>
<td>Use dry seasoned wood (less than 20% moisture content).</td>
</tr>
<tr>
<td>Glass blackening</td>
<td>Use dry seasoned wood (less than 20% moisture content).</td>
</tr>
<tr>
<td>Smoke Spillage into room</td>
<td>Ensure any flue offsets are at least 1m above the appliance spigot and no more than 45° off the vertical and offset is no more than 1.0m centre to centre.</td>
</tr>
</tbody>
</table>

The flue system has two main functions:
- To safely remove the smoke, fumes and combustion gases from the building.
- To provide a sufficient amount of flue draught (suction) in the appliance to ensure the fire keeps burning.

The flue draught is caused by rising hot gases when the appliance is lit. Tar and creosote are a major cause of chimney fires. If the appliance experiences problems with tar build up consult a chimney sweep before continued use of the appliance.

For advice on the correction of persistent flue problems consult a qualified heating technician before continuing to use the appliance.
Installation Checklist

Please Note

This section is intended to give an overview of the product performance and essential information required for installing the appliance. It is intended for qualified technicians who are already familiar with Stovax products. For full details and expanded information please see the Technical Appendix at the back of this manual.

1. Riva Studio Dimensions

![Diagram of Riva Studio Dimensions]

<table>
<thead>
<tr>
<th>Description</th>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
</tr>
</thead>
<tbody>
<tr>
<td>Riva Studio 2</td>
<td>RVS2NZ</td>
<td>1020</td>
<td>371</td>
<td>700</td>
<td>510</td>
<td>228</td>
<td>153</td>
<td>624</td>
<td>76</td>
<td>32</td>
</tr>
</tbody>
</table>

All dimensions in mm. (25.4 mm = 1")
## Installation Checklist

### 2. Essential Information

<table>
<thead>
<tr>
<th>Model:</th>
<th>Riva Studio 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Heat Output</td>
<td>Wood kW</td>
</tr>
<tr>
<td>Room Heating Capacity</td>
<td>Wood m³</td>
</tr>
<tr>
<td>Particulate Emissions</td>
<td>Wood g/kg</td>
</tr>
<tr>
<td>Efficiency</td>
<td>Wood %</td>
</tr>
<tr>
<td>Weight</td>
<td>Kg</td>
</tr>
</tbody>
</table>

**Recommended Fuels**
- Soft Wood
- Seasoned Soft Wood
  (less than 20% moisture content)

As tested to the requirements of AS/NZ 4012:1999 & AS/NZ 4013:1999.

<table>
<thead>
<tr>
<th>Flue/Chimney Size</th>
<th>Factory made system (diameter) installed in accordance with manufacturers instructions</th>
<th>mm</th>
<th>150/ 200/ 250</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flue/Chimney minimum height from hearth level**</td>
<td>All products</td>
<td>m</td>
<td>4.6</td>
</tr>
<tr>
<td>Flue/Chimney minimum height from hearth level**</td>
<td>**must be 4.6m from the hearth to the top of the flue, with no horizontal sections and a maximum of 4 bends with angles of less than 45 degrees off the vertical.</td>
<td>feet</td>
<td>13</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flue Draught</th>
<th>Min mm Wg</th>
<th>1.0</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nominal</td>
<td>1.5</td>
</tr>
<tr>
<td></td>
<td>Max</td>
<td>2.0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flue Outlet Size (Top Option)</th>
<th>mm</th>
<th>153</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>inch</td>
<td>6</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cavity Ventilation</th>
<th>ø</th>
<th>100mm x 2</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Room Air Replacement (vents x 2)</th>
<th>mm</th>
<th>175 x 175</th>
</tr>
</thead>
</table>

For full technical details on ventilation see Technical Appendix on Page 34

*When measured from the top of the appliance to the top of the flue, with no horizontal sections and a maximum of 4 bends with angles of less than 45°*
Installation Checklist

3. Minimum Dimensions - Floor Protector

<table>
<thead>
<tr>
<th>Dimension</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Riva Studio 2</td>
<td>1350</td>
<td>12</td>
<td>300</td>
</tr>
</tbody>
</table>

Constructional floor protector

[Diagram showing dimensions A, B, and C with values 200, 200, and 200 respectively]
Pre-Installation Instructions

1. General

1.1 To make the installation of the appliance easier it is best to remove all internal components before fitting into the builders opening/studwork.

Packing List

- User and Installation instructions
- Guarantee card
- Pair leather gloves
- Door Tool
- Door Adjustment Hex Key (5mm)

1.2 For the best results removing the following components as set out below.

2. Removal of the Door

Before removing the door it is recommended to protect the left edge from damage using masking tape.

2.1 Open the door approximately 90°, see Diagram 1.

2.2 Move the Air Control to the far right, see Diagram 2.

2.3 Lift the door vertically to remove from the hinge block, see Diagram 1.

2.4 Close the door 45°, ensuring the Air Control handle sits inside the channel in the top of the door, see Diagram 2 and carefully manoeuvre the door clear of the hinge mechanism.

2.5 Lie the door face down on a soft flat surface to protect the paint work and glass.

2.6 Reverse the procedure to re-fit the door.

3. Removal of the Log Guard

3.1 To remove the Log guard:

Lift Log Guard clear of the supporting brackets and rotate to clear the sides of the door opening, see Diagram 3.

Do not use appliance without the log guard in position.

4. Removal of the Fire Bricks

4.1 Remove the fire bricks as part of the routine maintenance. This can be carried out without the use of tools.

4.2 Allow the appliance to cool fully before removing firebricks.

4.3 Take care when handling, as bricks can become fragile after use. Life span depends on the type of fuels burnt and the level of use.

4.4 Important: Do not attempt to remove the base bricks before removing the side and rear bricks. Bricks should only be removed in the order described below.

Replace damaged bricks as soon as possible.

4.5 Remove the firebricks in the following order:

1. Tilt the side bricks into the middle of the appliance and remove.

2. The rear bricks can now be tipped forward starting from either end and removing the middle brick last.

3. The base bricks can now easily be lifted clear.
4.6 Replace in reverse order.

4.7 Once the bricks have been removed from the appliance ensure they are stored in an area where they will not be damaged.

**IMPORTANT: ALWAYS LIFT AND HANDLE THE BRICKS WITH TWO HANDS AT ALL TIMES. FAILURE TO DO SO MAY DAMAGE OR CAUSE BREAKAGES DUE TO UNEVEN PRESSURE WHILE HANDLING THE BRICKS.**

5. **Removal of the Baffle Bricks (Vermiculite)**

5.1 The appliance is fitted with 3 baffle bricks at the top of the firebox and two side bricks to maintain efficient combustion.

5.2 Allow the appliance to cool fully before removing baffle system.

5.3 Remove the Log Guard from the appliance to give access to the firebox, see Pre-Installation Section 3.

5.4 Carefully pull out the side Firebricks forward from their position at either end of the metal baffle rail.

5.5 You can now access the main baffle bricks. These have grooves on the underside which fit over the metal baffle rail.

5.6 Starting from the right carefully lift the baffle bricks out from their position on the baffle rail.

5.7 Follow these instructions in reverse order to fit the baffle bricks. Replace damaged baffles immediately.

**Do not modify baffle bricks. Do not operate with baffle bricks removed.**
6. Removal of the Baffle Plates (Steel)

6.1 There is an additional baffle consisting of two steel plates at the top of the firebox.

6.2 To release the baffle start with the Left Hand Side plate and ensure that it is supported. Remove the bolts and carefully lower the baffle out of the firebox.

6.3 Repeat with the Right Hand Side plate.

6.4 Replace in reverse order

6.5 The baffle system is designed to give safe and efficient operation of the stove. Replace damaged baffles immediately.

6.6 Do not modify the baffle system. Do not operate with the baffle plates removed.

7. Removal of the Flue Collar

7.1 Remove the 4 fixing bolts.

7.2 Remove the inner flue collar.

8. Removal of the Airbar

8.1 First remove the side and top baffle bricks, see section 5.

8.2 The airbar is secured to the inner box by four screws.

8.3 Lift one end carefully and manoeuvre the airbar out through the front of the firebox.

8.4 Replace in reverse order

8.5 The airbar is designed to give safe and efficient operation of the stove. Replace damaged parts immediately.

8.6 Do not modify the airbar system.

9. Louvres

The appliance has detachable louvres to help direct convected air into the room where it is installed. The louvres sit in channels above and below the inner box.

9.1 To remove, pull the metal slats from the channels and place carefully to one side.

9.2 To refit the slats slide into the channels ensuring they are fitted so the sides are equal distance from the edges of the box.
Pre-Installation Instructions

10. Frames

10.1 Attach the Studio frame fixing brackets to the fire, See Diagram 13.

10.2 See the frame fitting instruction for the individual fixing methods.

**DO NOT ATTACH THE FRAME AT THIS STAGE.**

10.3 The decorative frames should only be fitted after the appliance has been fully installed and all commissioning tests have been completed. Refer to the instructions supplied with the frame (PM378) for full details.

11. Separate The Inner & Outer Box

**This will require two people.**

To protect the delicate parts of the appliance the product has been designed so that the inner box can be removed from the outer box.

Keep the inner box in a safe place whilst the outer box is installed into the fabric of the house, the main flue connections made and the walls finished.

When all the heavy work is complete the inner box can be re-installed into the outer box and the final connection made.

11.1 **Take care when installing the appliance. Careless handling and use of tools can damage the finish of the appliance and/or area it is being installed into.**

11.2 The internal components, bricks, baffles and the door etc should be removed to make the installation process easier and prevent damage.

11.3 The inner box can now be slid out of the outer box.

11.4 The Studio also has a heat shield that fits between the inner and outer case. This sits on the top of the inner box and is held in place by its own weight. **Caution: This is extremely heavy.**
Installation Instructions

1. General Points

Each installation is unique to the property so it is not possible
to give details to suit every setting. The installation must comply
with Building Regulations and be made using "best practice"
construction methods.

Stovax Studio appliances can reach high temperatures so it is
important to maintain the clearance to combustible materials and
ensure the housing for the appliance is built from Heat Resistant
material.

1.1 Take care when installing the appliance. Careless handling
and use of tools can damage the finish and/or area.

1.2 Other non combustible materials may also be used to create
a housing for the appliance but it is essential to maintain the
clearances to combustible material.

1.3 All methods of installation will require the attachment of
frame fixing brackets prior to the installation of the outer box
see Pre-Installation Section 8.

2. Installation

Refer to the diagrams and dimensions
on the following pages when building a
frame out to house the appliance.

2b. Clearances to Combustibles - Non Combustible Zone

Note: When fitting the appliance use the minimum clearances
between any point of the appliance and any combustible material.

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Studio 2</td>
<td>634</td>
<td>966</td>
<td>612</td>
</tr>
</tbody>
</table>

Note: Heat Resistant Board must be a minimum
of 12mm with a working temperature of 80
degree C or greater.

* The 400mm margin at the sides of the box refers to the heat resistant
board not the timber framing. The heat resistant board extends beyond the
framing in some installations.
Installation Instructions

2c. Minimum Dimensions - Typical Wooden Frame Out

Framing using 90mm x 45mm timber

2d. Dimensions - Hebel Block Panels

Once the wooden frameout has been constructed line the inside with Heble block with the following dimensions:

Hebel Panel Table

Using 75 x 600 x 2400mm Panels

<table>
<thead>
<tr>
<th>Board Position</th>
<th>Quality</th>
<th>Hebel (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Panel</td>
<td>1</td>
<td>75 x 600 x 1295</td>
</tr>
<tr>
<td>Left &amp; Right Side Panel</td>
<td>2</td>
<td>75 x 445 x 1200</td>
</tr>
<tr>
<td>Back Panel</td>
<td>2</td>
<td>75 x 600 x 1295</td>
</tr>
<tr>
<td>Top Lid Panel</td>
<td>1</td>
<td>75 x 600 x 1295</td>
</tr>
<tr>
<td>Front Face Panel</td>
<td>1</td>
<td>75 x 490 x 1295</td>
</tr>
<tr>
<td>Front Face Left &amp; Right Side Panel</td>
<td>2</td>
<td>75 x 140 x 710</td>
</tr>
</tbody>
</table>
3. Frame Out - Typical Installation Example

IMPORTANT: NEVER POSITION AN LCD/PLASMA TV OR ARTWORK ABOVE THIS FIRE

Do not pack any voids around or above the appliance with insulation materials such as mineral wool or vermiculite.

An access manhole must be left in the side of the chimney breast for future servicing and inspection of the flue and appliance.

3.1 The appliance can be installed in a timber frame. For dimensions of the opening required see Dimensions, Page 20.

Construction

3.2 Make 2 x 100mm Ø in the external wall behind the frame out. Ensure the holes are either side of the centre line of the installation, see Diagram 2.

The holes must be 200mm above floor level and open to unrestricted airspace.

3.3 Build up the framework as required using 90mm x 45mm timber, see Diagram 3.

Ensure the framework is secured to the wall and floor of the building.

See diagram 1.
Minimum frame out dimensions.
3.4 Place 1 x 75mm hebel panels on the timber frame base. For dimensions of the hebel refer to the table on Page 20.

3.5 Cut 2 x 100mm holes in the hebel base at each rear corner for ventilation.

3.6 Cover with Mesh, see Diagram 4.

3.7 Install the side and back hebel panels, see Diagram 4.

3.8 Install and fix the outer box into position on the hebel base. See Page 18 for instructions on separating the inner and outer boxes.

3.9 Bolt the outer box base to the hebel base to comply with seismic restraint requirements. Ensure the decorative frame fixing brackets have been fitted to the outer box, see Pre-Installation Section 10.
3.10 Fit the triple wall flue system in accordance with the manufacturers instructions and AS/NZS 2918:2001 ensuring the centre and outer skins are supported in the box brackets to maintain the required clearances, see Diagram 6.

Ensure a gap of 25mm is maintained between the firebox and ø250 flue section. Alternatively a gap of 25mm providing through the use of a Spider is also sufficient.

6

A 25mm gap provided by a Spider is also permitted

3.11 Install hebel face panels to the sides and above the outer box. Lastly place a hebel panel lid to enclose the structure, see Diagram 7. See Page 20 for dimensions.

3.12 Cut a square mesh to enclose and rodent proof the area between the hebel and flue pipe.

3.13 Install a timber lintel on it’s side (90mm x 45mm) above the hebel panel face above the outer box, see Diagram 7.
3.14 Ensure the panels slide into position behind the box flange outer box flange - refer to Page 20 for dimensions.

3.15 Install heat resistant non-combustible board to the front face of the wall, See Diagram 8.

Fit remaining plasterboard or non-combustible panels to enclosing the timber frame.

3.16 Cut 2 x 120mm air ventilation holes at the base and top of the enclosure on both sides of the framing. Cap with desired vent covers, See Diagram 8.

Note: Heat Resistant Board must be a minimum of 12mm with a working temperature of 80 degree C or greater.

It is recommended to extend the heat resistant board 400mm either side of the firebox when installing the appliance into a wall.

4. Installing The Inner Box

This will require two people.

4.1 The Studio also has a heat shield that fits between the inner and outer case. This sits on the top of the inner box and is held in place by its own weight.

This must be installed before installing the inner box.

Caution: This is extremely heavy.

4.3 The inner box can now be slid into the outer box.

When refitting the cast iron flue collar ensure that it is sealed with fire cement.

4.1 Take care when installing the appliance. Careless handling and use of tools can damage the finish and/or area.

4.2 The internal components, bricks, baffles and the door etc can now be fitted into the appliance, see pre-installation section.
5. Alarms

5.1 All open flued appliances can be affected by temporary atmospheric conditions which may allow fumes to enter the house. It is recommended that whenever a new or replacement fixed solid fuel or wood/biomass appliance is installed in a dwelling a carbon monoxide alarm be fitted in the same room as the appliance.

Provision of an alarm must not be considered a substitute for either installing the appliance correctly or ensuring regular servicing and maintenance of the appliance and chimney system.

5.2 It is mandatory for a Smoke Alarm to be fitted into the room with the appliance.
1. Commissioning

1.1 To commission:
   — Ensure all internal components (log guard, baffle(s), bricks) are correctly fitted.
   — Check the door alignment and catch operation, adjust if required (see Maintenance and Servicing, Section 5).
   — Check the soundness of door seals, castings and flue connections.
   — Check the operation of the air control.

1.2 Now carry out a final smoke draw test:
   — First warm the flue with a blowlamp, or similar, for about 10 minutes.
   — Place a smoke pellet on the centre of the base bricks, with the air controls open.
   — Close the door. Smoke should now be drawn up the flue and be seen to exit from the flue terminal.
   — Complete test with all doors and windows closed in the room where the appliance is fitted.
   — If there are any extractor fans in adjacent rooms, the test must be repeated with the fans running on maximum and interconnecting doors open.
   — Check the effect of ceiling fans during the test.

If the test fails, re-check the suitability of the flue system and ventilation. **An inadequate air supply to the room is potentially dangerous.**

   — Light the appliance and slowly increase the temperature to normal operating levels.
   — Ensure no combustion products enter the room.
   — Open the main fire door when the appliance reaches normal operating levels and carry out a spillage test with a smoke match or pellet around the door opening.

1.3 If excessive spillage occurs:
   — Allow the appliance to cool and re-check the flue system and ventilation, see troubleshooting guide pages 10 &11.

1.4 Finally:
   — Explain the safe operation of the appliance and the use of the controls to the user and the importance of only using suitable fuels.
   — Explain the cleaning and routine maintenance requirements.
   — Explain the requirement to use a suitable fireguard when children, elderly or infirm persons are near the appliance.

— Record dealer/supplier details and installer details on page 3 of this manual.

— Record serial number in page 3 of this manual. This number is required when ordering spare parts and making warranty claims.

— Give this instruction manual to the customer.
1. Annual Service

1.1 Before the start of the heating season strip, inspect and clean the appliance as detailed:

— Allow appliance to cool.

— Remove all internal parts: baffle, (s) log guard and firebricks (see Installation Instructions, Sections 3, 4, 5 & 6). Take care handling firebricks as they can become fragile after a period of use.

— Sweep the appliance at this point if necessary.

— Vacuum clean any remaining ash and debris from the inside of the appliance. Stovax offer a filter/collection attachment for vacuum cleaners to protect them from fire ash: Ash Clean (Stovax Part No. 2091).

— Check the parts for any damage. Replace any damaged parts using genuine Stovax replacements parts.

— Check and clean the firebricks with a soft brush. Some surface damage will occur during use. The life of the bricks will depend on the type of fuels burnt and the level of use. Replace damaged bricks as soon as possible.

— Do not use acidic cleaners on printed glass.

— Re-fit cleaned internal parts.

— Do not use cleaning agents that have a high alkaline content, for example Stovax Gel Cleaner, on appliances with painted glass. These are abrasive cleaning agents that are designed to be used with heavily stained clear glass. Use Stovax Glass Cleaner (Stovax No.4103) on more delicate surfaces.

Do not use abrasive cleaners to remove tar or soot deposits from the glass.

— Fit new door rope seal (see Maintenance and Servicing, Section 4).

— Lightly oil the door catch mechanism and hinge pins. Avoid getting oil onto the door seals and glass.

— To refresh painted finishes use Stovax Riva Midnight black paint.

1.2 Use genuine Stovax replacement parts to keep the appliance in safe, efficient working order. This is a list of the maintenance products that may need be required:

<table>
<thead>
<tr>
<th>Task</th>
<th>Product name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Preventing build-up of creosote in flue</td>
<td>Protector (15 sachets)</td>
</tr>
<tr>
<td></td>
<td>Protector (1kg tub)</td>
</tr>
<tr>
<td>Sealing flue pipe joints</td>
<td>Fire Cement (500g tub)</td>
</tr>
<tr>
<td></td>
<td>Fire Cement (600g cartridge)</td>
</tr>
<tr>
<td>Re-painting</td>
<td>Riva Midnight Black (150ml aerosol)</td>
</tr>
<tr>
<td>Protecting your hands</td>
<td>Heat resistant leather gloves</td>
</tr>
<tr>
<td>Door sealing rope</td>
<td>16x10 Flat Rope Handy Pack</td>
</tr>
<tr>
<td></td>
<td>Ø13 Rope Seal Handy Pack</td>
</tr>
<tr>
<td></td>
<td>16x10 Flat Rope 25m Roll</td>
</tr>
<tr>
<td></td>
<td>Ø13 Rope Deal 25m Roll</td>
</tr>
<tr>
<td>Thermic seal glue</td>
<td>(50ml bottle)</td>
</tr>
<tr>
<td>Ash Clean</td>
<td>Vacuum Cleaner Attachment</td>
</tr>
</tbody>
</table>

These products, available online at [www.stovax.com](http://www.stovax.com) or from your local Stovax dealer, along with regular maintenance and use of correct fuels, will keep the appliance in the best possible condition.

1.3 For more information about the Stovax Group products please visit our web site at [www.stovax.com](http://www.stovax.com)

1.4 Burn at a low temperature for the first day of use after any maintenance. This allows the seals, fixing glues and paint to fully cure.

1.5 During this time the appliance may give off some unpleasant odours. Keep the room well ventilated to avoid a build-up of fumes.

1.6 Your Stovax dealer can carry out service and maintenance.

2. Removal of Internal Parts

2.1 To service and maintain the good working condition of your appliance it will be necessary to remove several internal parts. Consult the installation section for the following:

- **Door Assembly** - Pre-Installation Section 2, page 15.
- **Log Guard** - Pre-Installation Section 3, page 15.
- **Firebricks** - Pre-Installation Section 4, page 15.
- **Lower Baffles** - Pre-Installation Section 5, page 16.
- **Top Baffles** - Pre-Installation Section 6, page 17.
3. Fitting a New Door Glass

3.1 To maintain safe use of your appliance you may need to replace a damaged door glass. A replacement glass panel can be ordered which will be supplied with full fitting instructions:

Studio 2 - RVS-CE7477

4. Fitting a New Door Seal

4.1 To maintain the safe use of your appliance you need to replace damaged or worn door sealing rope. To complete this operation remove the door see Section 2 Removal of The Door in the Pre-Installation section.

4.2 Remove the old rope and scrape old glue from the locating groove. Clean the locating groove with a clean dry cloth to remove all old dust and debris.

4.3 Squeeze a generous bead of fresh Stovax Thermic Seal glue into the rope locating groove.

Press the new Stovax rope into the locating groove, placing the joint in the middle of the top edge of the door using tape supplied for the ends.

4.4 Refit the door and close the door to apply pressure to the new rope.

Leave the appliance closed for at least 12 hours before lighting the appliance and using at a low output for approximately one day.

4.5 Using the appliance with a damaged door seal can cause dangerous fumes to enter the room, or the appliance to over fire, resulting in damage.

5. Adjusting Door Hinges

5.1 To maintain the safe use of your appliance, you may need to adjust the door hinges to ensure the safe, correct closing of the door. The door must be horizontal/level with the top of the inner box and the door catch engages correctly

5.2 Open the door to give access to the hinge block fixing nut.

5.3 Using a 10mm A/F spanner slightly loosen the fixing nut inside the stove as shown in Diagram 2. This will give vertical and horizontal adjustment which may need a trial and error approach to find the correct position. The door must be horizontally level.

6. Adjusting the Door Catch

6.1 To maintain the safe use of your appliance you may need to adjust the door catch to ensure the safe, correct closing of the door. If the door hinges have been adjusted the door catch may need adjustment.

6.2 The catches are located at the top and the bottom of the right side of the door.

6.3 Using the 10mm A/F spanner slightly loosen the screw. This will give in and out adjustment for the door to aid the pressure on the rope seal.

6.4 Check the catch engages correctly and clears the inner box.
Door roller
Check clearance
Door Catch

Lower Adjustment

6.5 Using the 5mm Hex Key supplied loosen the 2 cap head screws Top and Bottom to allow movement but do not remove the screws completely.

Close the door and operate the door catch.

Push the door to compress the rope seal
This will reposition the catch rollers.

Still pushing the door open the catch and then open the door

Tighten the top and bottom screws and recheck the catch operation

Do a Paper Test

To do a paper test shut a piece of paper in the door at the edges to test how well the rope seal stops the air from entering the appliance. If the paper can be pulled out easily then the seal is not sufficient and the rope must be replaced. Repeat this around all the edges of the stove.

Tighten the top and bottom screws and recheck the catch operation
1. Legal Requirements

Before installation and/or use of this appliance please read these instructions carefully to ensure that all requirements are fully understood.

The appliance must be fitted by a registered installer*, or approved by your local building control officer.

It is very important to understand the requirements of the national Building Regulations and standards, along with any local regulations and working practices that may apply. Should any conflict occur between these instructions and these regulations then the regulations must apply.

Your local Building Control Office can advise regarding the requirements of the regulations.

Works must be carried out with care to meet the requirements of Health and Safety and comply with the Health and Safety rules, and any new regulations introduced during the lifetime of these instructions. Particular attention should be drawn to:

— Handling: The appliance is heavy. Adequate facilities must be available for loading, unloading and on site handling.

— Fire Cement: Some fire cement is caustic and must not come into contact with the skin. Protective gloves must be worn. Wash hands thoroughly with plenty of water after contact with skin.

— Asbestos: This appliance contains no asbestos. If there is the possibility of disturbing any asbestos in the course of installation seek specialist guidance and use appropriate equipment.

— Metal Parts: Take care when installing or servicing the stove to avoid personal injury.

A faulty installation can cause danger to the inhabitants and structure of the building.

For users of this appliance:
Your building insurance company may require you to inform them that a new heating appliance has been installed on your property. Check that your cover is still valid after installing the appliance.

*Installation is to be completed by a certified Solid Fuel Appliance Installation Technician (SFAIT) as required by the New Zealand Home Heating Association (NZHHA) conforming to AS/NZ 2918:2001.
THE FLUE TERMINATION POSITIONS ARE THE MINIMUM REQUIRED AS PER NZS 2918:2001. IT IS POSSIBLE THAT FLUE HEIGHTS MAY NEED TO BE INCREASED AS A RESULT OF CONFLICTING AIR PRESSURE ENVELOPES THAT MAY DEVELOP OVER SOME ROOFLINE SHAPES AND SURROUNDING OBSTRUCTIONS. RESTRICTION INTO CLEAR AIR MOVEMENT OVER ANY ROOF MAY ALSO REQUIRE DIFFERENT COWL DESIGNS, PARTICULARLY FOR HIGH WIND ZONES OR VARYING LOCAL ENVIRONMENT CONDITIONS.
3. Flues and Chimneys

3.1 WARNING: THE APPLIANCE AND FLUE-SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH AS/NZS 2918 AND THE APPROPRIATE REQUIREMENTS OF THE RELEVANT BUILDING CODE OR CODES.

3.2 WARNING: APPLIANCES INSTALLED IN ACCORDANCE WITH THIS STANDARD SHALL COMPLY WITH THE REQUIREMENTS OF AS/NZS 4013 WHERE REQUIRED BY THE REGULATORY AUTHORITY, I.E. THE APPLIANCE SHALL BE IDENTIFIABLE BY A COMPLIANCE PLATE WITH THE MARKING ‘TESTED TO AS/NZS 4013’.

3.3 ANY MODIFICATION OF THE APPLIANCE THAT HAS NOT BEEN APPROVED IN WRITING BY THE TESTING AUTHORITY IS CONSIDERED TO BE IN BREACH OF THE APPROVAL GRANTED FOR COMPLIANCE WITH AS/NZS 4013.

3.4 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.

3.5 The flue or chimney system must be in good condition. It must be inspected by a competent person and passed for use with the appliance before installation.

Products of combustion entering the room can cause serious health risks.

The following must be adhered to:

AS/NZ 2918:2001:4.9.1

a) The flue pipe shall extend not less than 4.6m above the top floor protector.

b) The minimum height of the flue system within 3m distance from the highest point of the roof shall be 600mm above that point.

c) The minimum height of a flue system further than 3m from the highest point of the roof shall be "a minimum" 1000mm above roof penetration.

d) No part of any building lies in or above a circular area described by a horizontal radius of 3m about the flue system exit.

N.B. in extreme wind areas it may be necessary to consult your local agent for further technical assistance.

— If flue is concealed in a chase, allow for air vents (2 x 80mm diam. or equivalent) at the highest possible point on the chimney chase or alternatively, allow a min 25mm air space between the casing cover spigot and the outer casing, see Figures 1.1, 1.2 and 1.3.
External Requirements
Refer to AS/NZ 2918:2001;4.9.1

Air Ventilation Through Chimney Chase

Fig 1.1

Air Vent
Minimum 2 x 80mm diameter or equal square or rectangle shaped area

Heat Resistant Board

Non-combustible material Hebel Block or 12mm non-combustible board or similar under the flashing

Min 25mm gap between flue pipe casing and combustible surface

Drip Line

150mm min

Spigot flashing to suit flue pipe casing

Air Ventilation Through Top Flashing

Fig 1.2

Oversized casing cover is necessary

Non-combustible material Hebel Block or 12mm non-combustible board or similar under the flashing

Min 25mm gap between flue pipe casing and combustible surface

Drip Line

150mm min

Hebel Block

The flue system and its installation must comply with AS/NZS2918:2001

Fig 1.3

The flue system and its installation must comply with AS/NZS2918:2001

Typical Cowl

Casing Cover

Air Gap

Approved Flashing

Air Vents min 2 x 80mm diameter or equal square or rectangle shaped area

Min 25mm gap between flue pipe casing & combustible surface

ø150mm Flue pipe

ø200mm Mid flue

ø250mm Outer flue

Note: All external air vents & ceiling penetrations must be bird & rodent proofed with permanently fixed screens
4. Ventilation

Also see Page 13 for requirement.

4.1 Increase air supply provisions where a room contains multiple appliances. Internal air pressure balance can be critical.

4.2 If vents open into adjoining rooms or spaces there must be an air vent of at least the same size direct to the outside.

4.3 Site the vents where cold draught is unlikely to cause discomfort. This can be avoided by placing vents near ceilings or close to the appliance (see diagram below).

4.4 Additional ventilation is required. This must be provided using a permanently open air vent, of the size listed, which is positioned so that it is not liable to be blocked both inside and outside the building.

Allowances MUST be made for air replacement vents to be located near the fireplace to aid combustion. A minimum of one pair of air vents is recommended or one large vent. Allowance is to be made for a minimum of 2 inlet ducts from outside to internal vent location. Note: DO NOT USE FIREPLACE CAVITY VENTILATION AS A METHOD OF AIR REPLACEMENT.

4.5 Extractor fans or cooker hoods must not be placed in the same room or space as this can cause the appliance to emit fumes into the room.

4.6 If any of these checks reveal problems do not proceed with the fitting of the appliance until they have been rectified.

5. Minimum Dimensions - Floor Protector

Also see Page 14 for dimensions.

5.1 The appliance must stand on a non-combustible constructional floor protector which is at least 12mm thick with the minimum dimensions as shown in the diagram.

As this appliance can be installed in an elevated setting a 12mm floor protector is required to be extended a minimum of dimension C from the door opening.

5.2 The building must have a suitable load-bearing capacity for the floor protector and appliance. Consult a structural technician for advice before proceeding.

5.3 When fitting into an existing floor protector check that the floor protector complies with current construction regulations and is at least the minimum sizes shown.

5.4 If there is no existing fireplace or chimney it is possible to construct a suitable non-combustible housing and floor protector setting. The flue must be installed in accordance with all local and national regulations and current rules in force.

6. Fire Surround Clearances

If the appliance is to be fitted with a fire surround use the minimum clearances (see diagram, Section 4) between any point of the appliance and any combustible material. Stovax produce a selection of surrounds and details can be obtained from your local supplier.

6.1 We recommend you obtain expert advice before proceeding with work of this nature.

6.2 Some finishes may discolor with heat and some lower quality products may distort, or crack, when in use.

If stone / granite / marble or any other natural material is used to construct the fire surround, or any part of it, provision should be made for expansion and movement of the parts due to heating and cooling.

If you are in any doubt about the installation requirements, or suitability of fire surrounds contact your Stovax dealer.

6.3 All fire surrounds should be suitable for use with solid fuel heating products.
Basic Spare Parts

RVS-2 RIVA STUDIO 2

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<tr>
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<tr>
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<tr>
<td>2</td>
<td>LOWER COLLAR</td>
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<td>BAFFLE ASSEMBLY LH</td>
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<td>4</td>
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DOOR ASSEMBLY

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Service Records

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