WAGENER

Fairburn

Installation, Operation & Maintenance INSTRUCTIONS

Designed & Handcrafted in New Zealand

NEW ZEALAND MADE

WAGENER

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WAGENER Fairburn Installation & Operating Instructions

Part 1: Installation Instructions for WAGENER Fairburn Cooker

(Please keep these Instructions for future reference)

The Wagener Fairburn has been tested to and complies with AS/NZS 2918:2001- Domestic Solid Fuel Burning Appliances.

Important Message to the Owner

BEFORE lighting your first fire PLEASE read fully the Part 2 Operation & Maintenance Instructions.
Note: Automatic Smoke Detectors/Alarms are mandatory in all new homes and when solid fuel heating appliances are installed. Permits will not be signed off if alarms are not fitted.
If a Wet Back is fitted it must be connected to the water supply or damage will result.
Such damage is not covered by Warranty.
Wet backs must be installed by a Registered Plumber.
The cooker installation must be carried out by a suitably qualified installer.
We recommend using an accredited NZHHA Technician

Important Message to the Installer

These installation instructions are the results of independent testing laboratory performance tests on the Wagener Free Standing Multi-Fuel Cooking Range "Fairburn" Radiant in accordance with AS/NZ 2918-2001 - Domestic Solid Fuel burning appliances - Installation.
The Wagener Fairburn must be installed in accordance with these installation instructions to comply with AS/NZS 2918-2001-Domestic Solid Fuel burning appliances.
Any variation from these installation instructions or any doubts about them must be checked against the requirement of the AS/NZS 2918-2001.
The flue system must be manufactured in accordance with AS/NZS2918-2001 and tested to Appendix F.
When planning your installation consider the weight of the Fairburn (approx. 300kg) and safe lifting and handling. Take extra care when lowering the Fairburn onto the drawer base to ensure fingers are clear.

WARNING: THE APPLIANCE AND FLUE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH AS/NZS 2918: 2001 AND THE APPROPRIATE REQUIREMENTS OF THE RELEVENT BUILDING CODE OR CODES.

THE APPLIANCE AND FLUE SYSTEM SHOULD NOT BE MODIFIED IN ANY WAY WITHOUT THE WRITTEN APPROVAL OF THE MANUFACTURER.

WARNING: DO NOT CONNECT TO AN UNVENTED HOT WATER SYSTEM
Install in accordance with AS 3500.4.1 or NZS 4603 and the appropriate requirements of the relevant building code or codes.

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.

CAUTION: OPERATING WITH CRACKED, BROKEN OR WORN COMPONENTS MAY RENDER THE INSTALLATION UNSAFE OR CAUSE DAMAGE TO THE CHASSIS.

PLEASE LEAVE THESE INSTRUCTIONS WITH THE OWNER WHEN THE INSTALLATION IS COMPLETED

Preliminary Installation Procedures for WAGENER Fairburn Cooker

To get the full benefit from the Wagener Fairburn it is important that it is installed correctly, both for efficiency and safety sake. The following points should be noted:

1. The characteristics and purpose of the Wagener Fairburn will determine its position within the home. Generally an interior wall installation suits flue requirements better than against an exterior wall.
2. Check for flue obstructions above the ceiling. (header tanks, electrical mains or load bearing roof supports and the like).
3. The **recommended vertical flue height for optimum operation is 4.8 meters** as the performance of the Fairburn depends more on the flue than on any other single component. It is the draw on the flue that drives the cooker.
4. Remember a permit is required from your Local Authority.

Assembling the Wagener Fairburn

The Wagener Fairburn chassis will arrive fully assembled and ready to be installed.
(Drawer base, upstand/splashback and plate rack are packaged separately if supplied)
If you choose to lighten the chassis weight for installation you can remove doors, bricks, grates, hot plates etc but please ensure you have a record of correct placement for refitting as safety and performance may be affected. We suggest taking photographs and also referring to Wagener Fairburn parts on our website.
Note: the grate is fitted with the wider gap between rungs facing downwards.
Incorrect fitting may cause the grate to buckle and bow.

Floor Protector/Hearth Requirements & Positioning

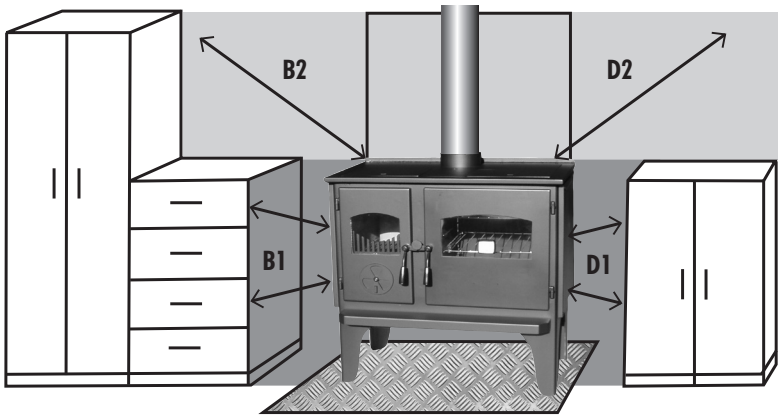
The Wagener Fairburn requires an ash hearth floor protector only**.**
The Ash Hearth floor protector shall have an upper surface, including grouting if required, of a durable, non combustible material. (eg Tiles, slate, treadle plate etc)
All joints in the surface must be sealed to protect and prevent ash or spilled embers reaching the floor.
Floor protection shall extend under the cooker and not less than the width of the cooker and shall extend forward 300mm and be 200mm from the side of the firebox door opening (120mm from side of end panel)
For concrete floors trim back any floor coverings to no less than the minimum hearth requirement.

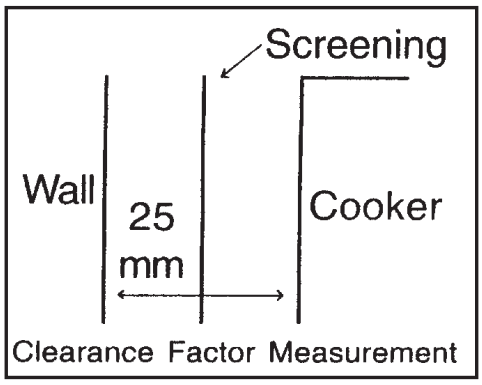
THE WAGENER FAIRBURN MUST BE AFFIXED TO THE HEARTH AND FLOOR FOR SEISMIC RESTRAINT.
For Seismic Restraint use two holes in the base of the legs and screw through the hearth and into the floor or for the drawer base model fix through the base beneath the drawer.

Wet Back Fitting

Wagener Fairburn Cookers can be fitted with a wet back. We recommend that you use the "Lion" Wet Back which has been designed and tested specifically for the Fairburn. In general, wet backs are factory fitted at the time of ordering. However, a suitably qualified person can fit or change the wet back out in the field if this is required. Water MUST always be present in the wet back. Tempering valves are required.
The 5.5kw steel boiler requires rust inhibitor in the water and will therefore require an indirect system.
Wetbacks MUST be connected by a Registered Plumber to an open vented system.
Please check the PH level of the water supply particularly if the area is prone to lime deposits or if the customer is not on town supply as wet backs can become fouled with lime or affected by corrosion which will void the warranty.
Please advise the householders NOT to boil the wet back as this will cause vibrations and will fatigue the wet back, the pipes and the cylinder. This will NOT be covered by the warranty.

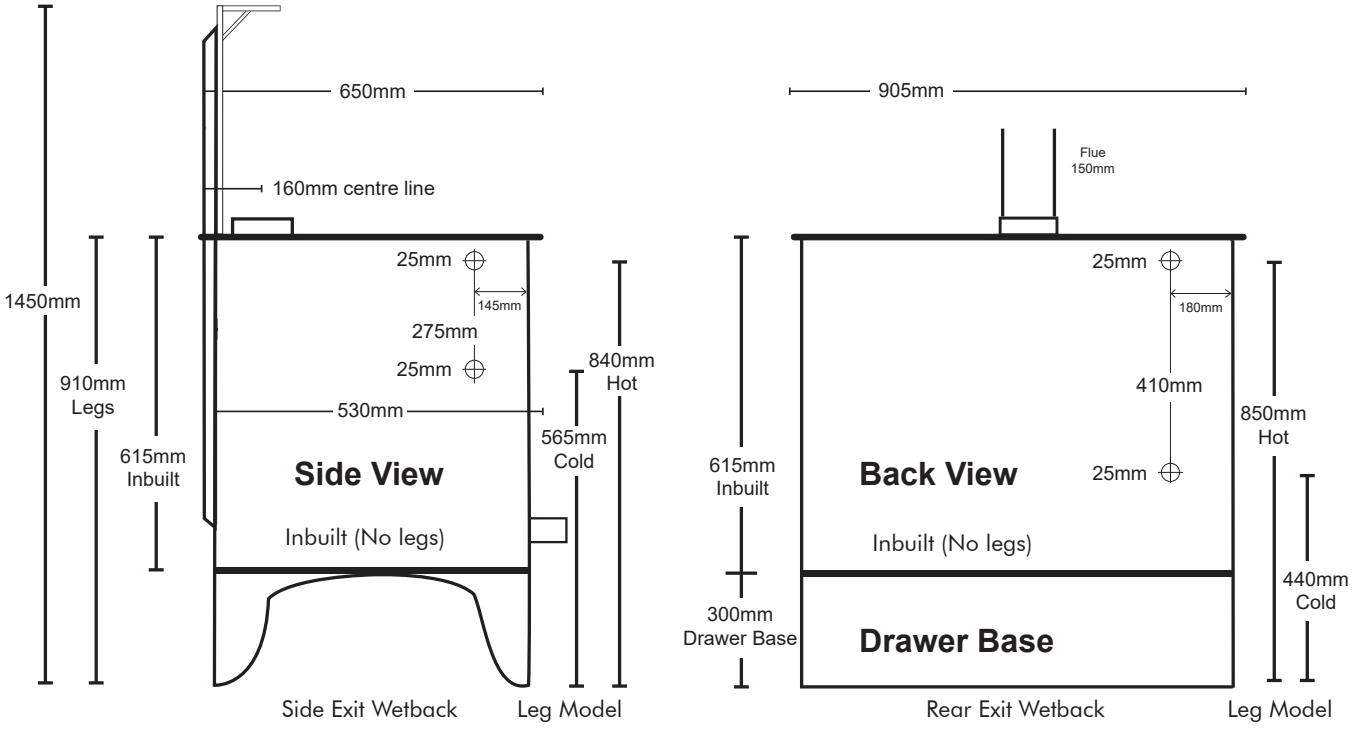
Installation Clearances AS/NZS 2918:2001





Minimum clearance to Combustible Surface	**B1** Below cooking surface	**B2** Above cooking surface	**A** Rear Wall		**D1** Below cooking surface	**D2** Above cooking surface
Unprotected walls without upstand	160mm	425mm	425mm		25mm	75mm
Unprotected walls with upstand	160mm	425mm	100mm		25mm	75mm
Screening sheet metal of any type 0.5mm or thicker spaced 25mm from wall	48mm	128mm	With upstand 30mm	No upstand 128mm	25mm	30mm
Other screening materials are available and clearance factors can be calculated to AS/NZS 2918:2001 Please ask your retailer or contact Wagener Stoves if you need further assistance.						
The Wagner Fairburn will fit into most existing brick alcoves which have previously accommodated an older style wood or coal range. (ie brick with 25m air space behind)						
Floor Protector (Ash Hearth): Shall extend under appliance and forward of the fire box opening 300mm, and extend 200mm to the side of the firebox opening (ie 120mm from side of end panel). Suggested size 1200mm wide x 1000mm deep.						

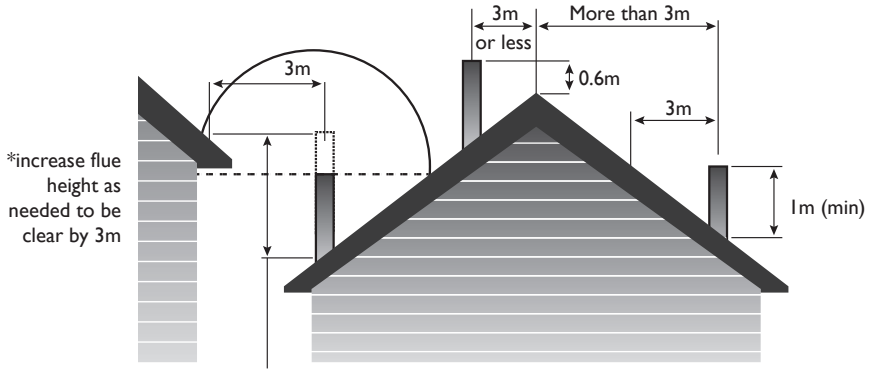
Wagener Fairburn Dimensions



150mm Free Standing Wood fire Flue Kit Installation Instructions

WARNING: FLUE KITS MUST BE MANUFACTURED IN ACCORDANCE WITH AS/NZS 2918:2001 AND TESTED TO APPENDIX F. TO ENSURE SAFETY THIS FLUE KIT MUST BE INSTALLED AS OUTLINED IN THESE INSTRUCTIONS AND THE APPROPRIATE REQUIREMENTS OF THE RELEVANT BUILDING CODE OR CODES. WOOD FIRE AND FLUE CLEARANCES FROM COMBUSTIBLE WALLS MUST BE IN ACCORDANCE WITH WOOD FIRE MANUFACTURER'S SPECIFICATIONS AND AS/NZS 2918:2001.

The Wagener Fairburn uses a 150mm diameter flue. It is imperative that the connection between the flue and the flue flange is sealed using a suitable flue sealant/fire cement. If an offset bend is required it should be as steep as possible to enable ease of cleaning. Extra flue height may be required to compensate for any lack of draw through a bend. The performance of the Wagener Fairburn depends more on the flue than on any other single component as it is the draw on the flue that drives the Fairburn. **We recommend 4.8 metres of flue for optimum performance.**

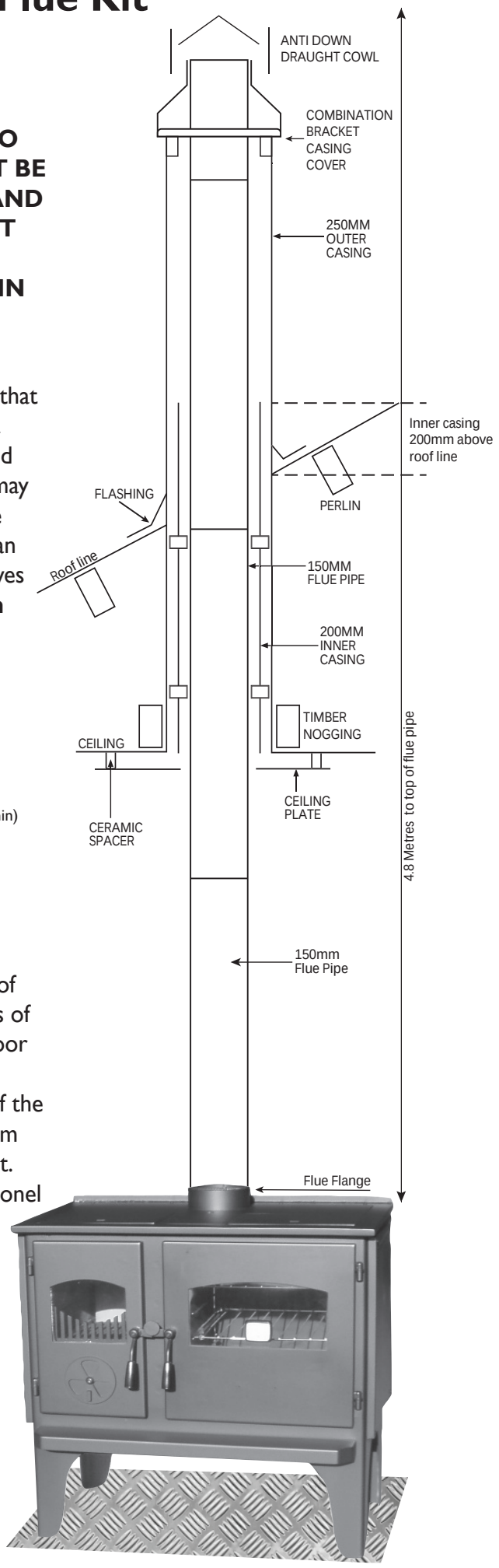


The top of the flue system should be at least 1000mm above the roof or at least 600mm higher than any obstacle or ridge within 3 metres of the flue. The flue pipe shall extend not less than 4.6M ABOVE the floor protector. However a total minimum vertical height of 4.8 metres is recommended for optimum performance. Joints between sections of the flue pipes are push fitted so that the upper section enters the bottom section and must be SEALED using a suitable flue sealant/fire cement. Each section should be secured to prevent separation using three monel steel rivets.

PLEASE FOLLOW STEP BY STEP INSTRUCTIONS ON PAGE 5

Clean flue pipes before lighting the fire. Stainless Steel pipe should be wiped clean using a soft cloth and methylated spirits to remove finger marks and oils used to manufacture the flue pipe. Hi-Therm flue pipe can be touched up if required using only STOVE BRIGHT aerosol paint.

Please leave all installation and operating instructions with the owner.



150mm Free Standing Wood Fire Flue Kit
Installation Instructions continued

1. Locate Wood Fire in its proposed position and mark a point on the ceiling that is directly above the centre of the Wood Fire's Flue Flange. Check that the Wood Fire's location allows the OUTER CASING to clear all structural roof timbers.
2. Cut a 250mm square hole in ceiling. Directly above cut a hole in the roof to accommodate the OUTER CASING.
3. Fit timber nogs around ceiling. Nogs form a 250mm square aperture that allows air to circulate freely over the OUTER CASING surface.
4. Position the OUTER CASING so that it is flush with the underneath of the ceiling and protrudes through the roof at the required height. Note that AS/NZS 2918:2001 4.9.1(a) states "the FLUE PIPE shall extend not less than 4.6m above the top of the floor protector. Refer diagram page 4
    a. If the FLUE PIPE is within 3 metres of the ridge, the FLUE PIPE must protrude at least 600mm above the ridge of the roof.
    b. b. If the distance from the ridge is more than 3 metres, the FLUE PIPE must protrude at least 1000mm above roof penetration.
    c. The FLUE PIPE must be more than 3 metres away from any nearby structure. Refer diagram page 4

Additional FLUE PIPE, OUTER CASING and INNER CASING may have to be added to ensure the following:

    a. The correct minimum roof penetration height.
    b. Sufficient overall height to encase the FLUE PIPE which must extend a minimum of 4.6 metres from the floor protector. (4.8 metres for optimum performance)

Note: the INNER CASING should extend 200mm above roof penetration. Do not secure the OUTER CASING SLIP EXTENSION onto the OUTER CASING, as final adjustment will be required when fitting cowl assembly.

5. Fix an appropriate flashing around the OUTER CASING to seal onto the roofing material. Refer to the manufacturer's recommendations for correct fitting. NB: On iron roofs, fixings such as metal angle brackets (approximately 25mm x 25mm) can be fitted under the flashing to securely fix the roof to the OUTER CASING
6. Drill holes in CEILING PLATE for the fixing screws. Place CEILING PLATE over Wood Fire FLUE FLANGE ensuring the folded edges are facing the ceiling.
7. Position bottom length of FLUE PIPE (crimped end downwards) into the FLUE FLANGE.
8. Use fire cement to seal the joint where the bottom section of FLUE PIPE enters the FLUE FLANGE.
9. Assemble FLUE PIPES together ensuring seams are straight, offsetting the seams will ensure a neat fit. FLUE PIPES must be assembled with crimped ends down (towards Wood Fire). Secure each joint with a minimum of 3 rivets equally spaced around the joint. If using HI-THERM FLUE PIPE the protective wrapping should be left on the FLUE PIPE during installation.
10. From the roof, lower FLUE PIPE through OUTER CASING into the bottom FLUE PIPE securing with 3 rivets.
11. Check that the FLUE PIPE SPACING BRACKETS inside the INNER CASING are correctly positioned and then from the roof slide the INNER CASING into the OUTER CASING, this will ensure the INNER CASING is the correct 12mm above ceiling level. Check the INNER CASING when correctly positioned extends a minimum of 200mm above the roof penetration.
12. Before securing the OUTER CASING SLIP EXTENSION to the OUTER CASING with 3 rivets, ensure the FLUE PIPE is either flush with or extends above the top of the OUTER CASING SLIP EXTENSION by no more than 15mm. Adjust SLIP EXTENSION to obtain this measurement.
13. Push CASING COVER (with collar inside FLUE PIPE) down onto the OUTER CASING SLIP EXTENSION. The 3 locating brackets with holes must be on the outside of the OUTER CASING SLIP EXTENSION and are secured using 3 rivets.
14. Fit COWL but do not secure, as removal for flue cleaning will be necessary. Deform or ovalise the stub of the COWL to ensure it is a tight friction fit.
15. Fasten CEILING PLATE to ceiling using ceramic spacers and screws provided. Ensure an even air gap around FLUE PIPE when fixing. Remove protective plastic from CEILING PLATE. NB: 12mm air gap between ceiling plate and ceiling must be maintained.

Part 2: Operation & Maintenance Instructions for WAGENER Fairburn Cooker

Message to the Owner

Thank you for purchasing a New Zealand designed and made Wagener Fairburn Cooker.
With care and common sense your Wagener Fairburn will give you many years of trouble free service.
We recommend an annual safety check of flues, bricks, door seals, door catches, air controls and the like.
When your Fairburn is not in use please ensure that the air control is in the closed position. The air control should always be in the fully open position before opening the fire box door for starting and refuelling.

WARNINGS AND CAUTIONS

1. **WARNING: ANY MODIFICATION OF THE APPLIANCE THAT HAS NOT BEEN APPROVED IN WRITING BY THE TESTING AUTHORITY IS CONSIDERED AS BREACHING AS/NZS 4013.**
2. **WARNING: DO NOT USE FLAMMABLE LIQUIDS OR AEROSOLS TO START OR REKINDLE THE FIRE.**
3. **WARNING: DO NOT USE FLAMMABLE LIQUIDS OR AEROSOLS IN THE VICINITY OF THIS APPLIANCE AND CHECK FIREBOX AND OVEN FOR FOREIGN OBJECTS WHEN OPERATING.**
4. **WARNING: DO NOT STORE FUEL WITHIN HEATER INSTALLATION CLEARANCES.**
5. **WARNING: DO NOT OPERATE THIS APPLIANCE AS AN OPEN FIRE. IT IS NOT TESTED TO BE USED IN THIS WAY AND WILL BE CONSIDERED AS BREACHING AS/NZS2918:2001.**
6. **CAUTION: OPEN AIR CONTROL AND OVEN BYPASS BEFORE OPENING FIRE BOX DOOR.**
7. **CAUTION: THIS APPLIANCE SHOULD NOT BE OPERATED WITH A CRACKED GLASS.**
8. **CAUTION: THIS APPLIANCE SHOULD BE MAINTAINED AND OPERATED AT ALL TIMES IN ACCORDANCE WITH THESE INSTRUCTIONS.**
9. **CAUTION: THE USE OF TREATED WOOD AS A FUEL CAN BE HAZARDOUS TO THE ENVIRONMENT AND DETRIMENTAL TO YOUR APPLIANCE.**

Further Cautions & Over Firing

DO NOT run the Fairburn with the door ajar or open. This will cause over firing and damage to your stove and flue which will NOT be covered by warranty as well as being potentially dangerous.

SIGNS OF OVER FIRING: Flue turns red hot, stove "roars", cooktop surface becomes red hot.

POSSIBLE CAUSE OF OVER FIRING	**REMEDY**
1. Excess flue length/windy conditions	Move air control to reduce or close air supply
2. Appliance run with door ajar	Close the door
3. Worn or Faulty door seals	Replace door seals
4. Full load of very dry, small wood	Don't load excess quantities of fuel
5. Dirty flue catches fire	Close air supply. Alert occupants and ensure their safety. Call fire brigade if necessary. Inspect & Clean flue when cold. Review quality and type of fuel being used.

The Fairburn is HOT while in operation and caution is required as contact may cause burns.
Keep children away and use appropriate tools and protective mitts when operating.
CREOSOTE OR SOOT FIRE: In the unlikely event of a soot or creosote fire occurring close air control and bypass control and alert household occupants and ensure their safety. Then see Remedy 5 above.

Operating Your Wagener Fairburn

Fuel

Dry, seasoned wood at less than 25% moisture content should be used at all times.
(Moisture meters can be purchased to check levels)
Try to buy wood well in advance and store so that the air can circulate through the pile to assist drying. Wet, unseasoned wood can cause creosote problems, especially if it is burned slowly. Care should be taken to ensure that the fire is actually burning and not just smouldering which over a period of time can create creosote build-up and flue blockages and even result in an explosion.
DO NOT burn driftwood, chipboards, painted, stained or treated timbers or glossy print material as they will all damage your Fairburn and flue and void your warranty.
NOTE: The heat output of the Fairburn is controlled not only by the air control but also by the type and quality of fuel in the firebox.
New Fire bricks can hold moisture and may crack in a hot fire. Have 2 or 3 small fires to "condition" new bricks or alternatively bricks can be removed and dried in the sun or hot water cupboard.
COAL may be used in the Fairburn but does tend to be more corrosive and therefore may shorten the life of the firebox. If you wish to use coal we suggest you burn a mix of wood and coal.
When your Fairburn is not in use close the air control to prevent the fire drawing air back down the flue and into the firebox as moist or salt laden air can cause deterioration of the appliance over time.

Controls and Tools

The Fairburn has two controls.

1. **The air control** (black round disk beneath the firebox door glass) which provides air under the grate and over the glass and controls the rate of burn.
2. **Flue gas direction control** (6mm screw driver type slot sitting flush with the cooking surface and located below and forward of the flue flange collar) This control is open in the **east/west position** and allows the flue gases to travel directly up the flue and closed in the **north/south position** diverting gases and heat down the firebox side of the oven, across under the base of the oven, up the other side, across the top of the oven and then up the flue.

And two tools:

1. **The Poker/Scraper** is a long metal rod with a ring at one end and an offset plate on the other end. It is used to move burning fuel around in the firebox and also to scrape away soot build ups when cleaning the cooker.
2. **The Lifting tool** is for cracking and lifting the top plates and moving the flue gas direction control. It also has an allen key tool attached for adjusting the air control and opening the oven cleaning port cover.

First Burn on a New Appliance or Repainted Appliance

On INITIAL LIGHTING, the high temperature paint used on the Fairburn will give off smoke and odour for a period of time. Open your doors and windows to ensure adequate ventilation! **Please follow information "High Temperature Paint" enclosed in your installation pack** on safety and the paint curing process.

Start Up

1. Rotate the air control so that the widest opening is obtained and position the flue gas direction control clockwise (east/west position) so the fire gases go directly up the flue using tools provided.
2. Open the firebox door. Ensure that the ashpan below is fitted right back under the grate. Remove the top plate above the firebox using tool provided. Place crumpled newspaper on top of the grate or if using firelighters place them on the grate.
   Stack kindling around the newspaper like an Indian Tepee, refit the cooking plate and light the newspaper (or firelighters if using) through the firebox door and close the door. Once kindling is well alight add slightly larger pieces of wood through the top plate until you have a good healthy fire.

3. To add larger logs or to refuel always ensure that the air control is on full supply and crack the top plate for a moment before opening and adding logs. Add logs ensuring air spaces between surfaces to allow for burning. Re-adjust the air control to the desired setting when the new fuel is well alight and the fire is burning well.
4. It should not be necessary to fill the firebox to capacity. Smaller loads of wood burned on half air supply will produce more heat per kg of wood. Note: flue length, outside wind conditions and the like may affect the performance of the cooker and the required setting adjustments.
   Please refer to page 6 - Over firing, Causes and Remedies.

Heating the Oven – Cooking and Baking

From cold establish a good base fire in the firebox for at least an hour on full to high air supply with the flue gas direction control open in east/west position. **Caution: refer Over Firing section on page 6)**
With the fire burning well and a good load of fuel in the firebox turn the flue gas direction control to the north/south position sending the gases and heat around the oven. As the oven approaches your desired temperature adjust the air control to maintain the temperature required. **Allow the oven temperature to equalise for 15-20 minutes**. Now your oven is ready to use. **Note: If your cooker is already hot from use the oven will have a residual heat and take less time to come to temperature.** Place your food in the oven and close the door quickly to maintain the oven temperature. If refuelling is required first open the flue gas direction control (east/west position) to spill flue gases directly up the flue. Using the tool provided carefully lift the top plate (directly above the firebox) by 5mm on front edge and hold for 2-3 seconds (to draw the gases up the flue and prevent a puff of smoke into the room) before removing to add required fuel. Replace the top plate and turn the flue gas direction control back to north/south position around the oven. Do not adjust the air control as this will alter the oven temperature.

Stove Top Cooking

Establish a good fire and allow the Fairburn to heat up. Never cook food directly on top of the top plates. Always use pots, pans and appropriate cooking implements. When bringing pots to the boil or requiring high heat use top plates directly over the firebox. Move cooking vessels further towards the oven side for slower cooking and lower heat. A suitable raised trivet on the top can provide even slower cooking options.
Avoid spills which can be detrimental to the paint finish. If a spill occurs clean gently using a soft cloth. Avoid scratching or marking the surface. Wear and tear caused overtime can be touched up with High temperature paint. (See paint instructions) To season hotplates when not in use rub with a little cooking oil.

Extended Burn Times

Ensure that your flue gas direction control is in the open east/west position and air control is fully open and that you have a good base of hot embers. Add a good load of larger pieces of wood. Allow to burn for 10-20 minutes before adjusting the air control by about one third and then after another 10 minutes or so reduce further for a slow burn. Ensure that a flame is still visible. Your Fairburn will burn for long periods on low.

Reloading after a Slow Burn

At the end of a slow burn rotate the air supply to fully open. Ensure the flue gas direction control is in the open east/west position. Rake the embers and re-establish the fire by adding a few small split logs and allow the firebox temperature to build up before adding the balance of the fuel. The addition of large quantities of cold fuel to a low fire will reduce the firebox temperature dramatically and this may result in smouldering or 'losing' the fire. Proceed with fire operation as before.

MAINTENANCE AND CLEANING

Ensure that your Fairburn is cold and that there are no hot embers in the fire box. Your splashback/upstand (if fitted) is enamelled and may be cleaned with mild household detergents. Outer panels of your Fairburn are painted and may be cleaned with a soft dry rag. Avoid spills which can be detrimental to the paint finish. If a spill occurs clean gently using a soft cloth. The Fairburn is coated with high temperature paint and can be recoated using a spray can of Stove Bright high temperature paint. (Refer to touch up instructions enclosed in your installation pack) See secondary air tube below for additional cleaning.

Internal Oven Cleaning: The internal oven has removable wire racks, side rails and trays that may be removed for cleaning with hot soapy water. The oven when operated at high heats will be self-cleaning and will only require a wipe or sweep out of any residue that burns off and falls to the oven floor.

External Oven Cleaning: Remove the two hotplates from above the oven. Place newspaper on the floor directly below the oven door. Using the poker/scraper provided scrape across the top and down the right hand side of the oven to remove soot and ash build up. Open the oven door and using the hot plate tool allen key fitting remove the cleaning port cover below the oven. Care should be taken as soot and ash could spill out. Scrape under the oven and remove soot and ash through this opening with the poker/scraper. You may wish to vacuum this area out if your vacuum tools are suitable. Once clean reassemble.

Ash Removal

Over a period of time ash will build up in your Fairburn ash pan requiring removal. Ash build up will depend upon the quality and quantity of fuel used. To empty ashes from the fire box, rake the grate with the poker to clear deposits above. Remove the ash pan and dispose of contents into a non-combustible container with a tightly fitting lid and place outdoors well away from any combustible materials. Take care as the ash can retain heat for many days and become a fire hazard. We suggest that you wet the ashes using a garden hose. When cold, wood ashes can be used in your garden. (Ash from burning coal is not suitable)

Door Glass

Under normal operating conditions, using well-seasoned fuel, the glass in your Fairburn firebox door should remain relatively clear. A good, hot fire will burn away most of the black deposits collecting on the door glass during slower burns. If the glass becomes dirty it can be cleaned by dipping damp paper towels or newspaper into the dry cold ashes, and rubbing gently on the dirty glass to clean.
If in the unlikely event your door glass breaks it must be replaced with a 5mm robax ceramic glass.
This should be purchased through your Wagener Stoves Dealer as the glass tape fitting is critical.
NOTE: Do not operate your Fairburn with broken door glass and under no circumstance should a non-ceramic type glass be used as it may explode due to the intense heat inside the fire box.

Door Seals, Flue Flange and Secondary Air Tube

The firebox door seal should be checked and adjusted to provide a perfect seal at all times. The flue must also be fully sealed where it enters the flue flange. Excess air entering the fire box past a faulty or worn seal will make it impossible to achieve an extended burn time and may also result in over firing the Fairburn causing damage. The secondary air tube is located on top of the bricks between the firebox and the oven. The air tube should be removed and cleaned when cleaning around the oven. Note the position it sits in to ensure correct fit after cleaning.

Fire Box Bricks and Promina Boards

Fire Bricks protect the steel chassis and help to maintain high temperatures in the fire box to effect complete combustion of the fuel. Promina boards enhance and stabilise the oven heat. Worn and broken bricks and promina boards should be replaced to protect the chassis and ensure best performance of your Fairburn. Protect the promina boards when cleaning the flue and around the oven by closing the flue gas direction control and place your fuel in the firebox rather than throwing it in as this will extend the life of your bricks.

Flue Cleaning

Flue cleaning and maintenance is best done by a professional who can also advise you on the condition of your flue and other parts like bricks and door seals. We suggest this be done at least annually depending on quality of fuel being used and creosote build-up. However, if you are cleaning the flue your self first allow the fire to go out and the Fairburn to cool down. **Close the flue gas direction control to north/south position to prevent soot falling between the oven and firebox division.** Remove the cowl and rod the flue downwards from the roof. Remove the top plates above the oven and remove the soot through the opening below the flue flange and from on top of the oven.

Wagener Stoves "Lion" Ltd reserves the right to change specifications or design of its products without prior notice.

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