Living Flame

December 2016

Installation & Operating Instructions
Aura Outdoor Fire

Aura

Technical details subject to change
Please ensure you have the latest specifications

Installation Instructions Guidelines

Rain and Water

Please Note

- This is not a water proof fireplace
- Provision should be made for the drainage of excess water
- A splash cover is provided with the fire

Living Flame Inbuilt Gas Fireplaces must be installed in accordance with these guidelines.
For safe installation and operation, carefully read the following information.

NOTE:

Failure to follow these instructions may invalidate your household insurance and the fireplace warranty. It may also cause a malfunction or damage to the fireplace, possibly causing injury and / or property damage.

Specifications may change without notice.

Please ensure you have the latest version of instruction guidelines before commencing building or installing a Living Flame appliance.

OWNER

1. Fireplace features and gas rating inputs
2. Aura overview
3. Dimensions – refer drawing 30.
4. Location
5. Your safety and protection
6. What to do if you smell gas
7. Operating Instructions – variable rotary control, refer drawing 2.
8. Guarantees

GASFITTER

9. Ventilation
10. Gas connection
11. Gas supply
12. Test pressures
13. Testing
14. Controls
15. Flueing
16. New fireplace installation
17. Existing fireplace installation
18. Flue and chimney requirements
19. Flue height diagram – refer drawings 3a. and 3b.
20. Flue components diagrams and offset rules – refer drawings 4a., 4b. and 4c.
21. Installation of coals only or coal, log and embers
22. Routine service

BUILDER

23. Clearances / trim out – refer drawing 31.
24. Angle of mantle – refer drawing 6.

DRAWINGS

2. Variable rotary control, NG and LPG
3. Flue height diagrams
4. Flue components diagrams and offset rules
5. Clearances / trim out and hearth detail
30. Dimensions
31. Clearances / trim out

1 Fireplace Features

Radiant heat,

Manual variable safety controls,

Unique Living Flame diffuser burner fire,

Glowing coals, logs and embers,

Stainless steel construction for heat resistance and a longer lifetime,

Air cavity sides,

Natural gas or home delivered bottled gas (LPG) fuel options,

Fire Sure Lifetime Body Guarantee,

Fire Sure Lifetime Burner Assembly Guarantee,

One Year Control Assembly Cover,

One Year Labour Cover,

Technical Sheet

Gas rating inputs for each model shown

AURA MODEL	INPUT – mj
900mm	40
1000mm	45
1200mm	55
1500mm	2 x 32

Aura Fireplace Overview 2

Standard Sizes for Auras

Aura fireplaces are manufactured in sizes of 900mm, 1000mm, 1200mm and 1500mm widths.

The standard height for all Aura fires is 630mm and the standard depth is 420mm.

OPTIONS

Trim:	Brushed stainless steel trim.
Log / coal mix:	You may choose from a log and coal mix or coals only.
Front grate:	Province front – standard.
Front leg:	Décor leg – standard.
Controls:	The fire is supplied standard with a manual control system.
Cover:	A brushed stainless steel splash cover is supplied with the fire .

Note: The 1500mm model has a dual burner and dual controls.

Custom Sizes for Auras are not Available

Aura Dimensions 3

Refer Page no 33

Location 4

The fireplace should be located:

Out of high traffic areas;

Out of strong draughts;

Away from furniture;

Where the flue system can be correctly installed without damaging the structure of the building, checking that the flue vent and its shielding will not interfere with any structural timberwork;

Where there is sufficient access for safe operation and maintenance;

Where there is a flat and level surface;

Where there is sufficient flue vent clearance around the flue in relation to other objects in close proximity;

Where there is access to a gas line or the gas line can be brought to the fireplace in accordance with AS/NZS5601.1:2013;

Where there is unobstructed adequate ventilation to allow correct combustion and operation of the fireplace;

Where the fireplace can be used to optimise the radiant heat given off by the fireplace;

These inbuilt fireplaces do require a hearth.

Your Safety and Protection 5

- A fireguard to BS Standard 6539 or 6778 should be used for the protection of young children, the elderly and infirm.
- Do not store or use flammable vapours or liquids in the vicinity of this fireplace or any other gas appliance.
- Do not place combustible materials around the fireplace.
- Know where your gas shut off valves are located.

What to do if you Smell Gas

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Do not try to light any gas appliance;

Do not use any electrical appliance or switches;

Do not use the telephone in your home;

Turn off the gas supply to your house at the gas meter shut off valve, or the shut off valves at your gas bottle(s) location;

Call your local gasfitter from a neighbour's house.

7 Operating Instructions

Manual Variable Rotary Control

CONTROL OPERATION

Check gas supply is turned ON.

START UP

Make sure the control is in the off position.

Depress the control knob and turn counter clockwise to the pilot / sparker diagram position. Gas flows to the pilot burner and the piezo igniter gives off a spark to light the pilot.

When the pilot lights (if it fails to light repeat step two) keep the control knob depressed for approximately ten seconds until the pilot remains alight when

the control knob is released.

Note: If the gas line has been interrupted when first lighting the fire, it may be necessary to follow the above instructions several times.

HIGH / LOW FLAME

Turn the control knob to light the main burner – small flame diagram is low, large flame diagram is high or anywhere in between as desired.

SHUT OFF

Turn the control knob clockwise to either the pilot position so that only the pilot remains alight or to the off position to extinguish the pilot light.

SAFETY SHUT OFF

The variable rotary control will automatically shut down should the pilot be interrupted or the pilot fail to light.

If the system fails to light after several attempts, call for a registered Living Flame

Maintenance Engineer or Living Flame Auckland for your nearest registered

service agent.

Refer drawing number 2.

Living Flame
Expressed Guarantee December 2002

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Inbuilt Fireplace bodies are constructed for a minimum working life of 15 years when installed in compliance with AS/NZS:5601.1:2013, C1 Outbreak of Fire and manufacturers installation, operating and maintenance instructions.

FIRE SURE LIFETIME BODY GUARANTEE

This is a Fire Sure Lifetime Replacement Guarantee that covers the fireplace body manufactured by Living Flame Fires and only covers the replacement of the fire body where an irreparable defect, due to material or manufacturing failure, occurs within the lifetime of the fire. The Fire Sure Lifetime Body Guarantee does not cover faults caused by incorrect installation, incorrect commissioning or misuse, and the fire should be installed and maintained in compliance with the guarantee and all conditions of the guarantee fulfilled.

FIRE SURE LIFETIME BURNER ASSEMBLY GUARANTEE

This is a Fire Sure Lifetime Replacement Guarantee that covers the fire burner tray manufactured by Living Flame Fires and only covers the replacement of the fire burner tray where an irreparable defect, due to material or manufacturing failure, occurs within the lifetime of the fire. The Fire Sure Lifetime Assembly Guarantee does not cover faults caused by incorrect installation, incorrect commissioning or misuse. The fire should be installed and maintained in compliance with the guarantee and all conditions of the guarantee fulfilled.

ONE YEAR CONTROL ASSEMBLY COVER

This is a One Year Replacement Guarantee that covers the control parts used in the manufacturing of a Living Flame Fire. The manufacturer only covers the replacement of a control part where an irreparable defect, due to material or manufacturing failure, occurs within the first year from date of supply by Living Flame.

ONE YEAR LABOUR COVER

This is a One Year Guarantee covering the normal labour charges required to replace components of a Living Flame Fire should a part fail in its first year of service. The One Year Guarantee does not cover faults caused by incorrect installation or commissioning. The refund of associated labour charges are based on our schedule of costs listing services of parts to be charged for, time allotted and costs allowed including travel, when carried out by an approved Living Flame serviceperson. Travel is only covered within a 25km radius from either Living Flame Ltd in Auckland or our local distributor. The fire has to have been installed and maintained in compliance with the guarantee and all conditions of the guarantee must have been fulfilled.

EXCLUSION FROM GUARANTEE

This Fireplace Replacement Guarantee excludes any costs associated with the removal or replacement on site of the fireplace at the owners request, required for finishing work or refurbishment work to the fireplace, surround, chimney, flue or gas line testing or re-certification. This guarantee is only valid when the fire has been installed in New Zealand.

Living Flame
Expressed Guarantee December 2015

INSTALLATION

Living Flame Fireplaces must be installed to comply with:
New Zealand Standards and Building Codes where relevant;
AS/NZS:5601.1:2013 Installation Gas Code;
Living Flame Installation Instructions;
Living Flame Operating Instructions;
Living Flame Maintenance Instructions.

Living Flame Fireplaces must be installed free from dampness and free from corrosive elements. Living Flame Fireplaces must be installed with an unrestricted flue or chimney. Living Flame Fireplaces must be installed by a suitably qualified person and a certificate of compliance must be made by a Registered Certifying Engineer under the New Zealand Gas Act.

Guarantee and Warrantee Validity

Guarantee claims will only be considered when completed by a Living Flame approved serviceperson in accordance with Living Flame procedures.

OPERATING

Living Flame Fireplaces must be operated in accordance with Living Flame Operating Instructions.

Living Flame Fireplaces should be used only for the burning of gas fuels: Natural Gas, Liquid Petroleum Gas or Propane Gas. The type of gas to be used should be specified at the time of ordering the unit.

Living Flame Fireplaces must only be operated with a Living Flame Gas Insert Fire that has been commissioned to Living Flame's Commissioning Instructions.

MAINTENANCE

Living Flame Fireplaces must be maintained, cleaned and re-commissioned annually as should all gas appliances.

DOMESTIC USERS

Living Flame Fireplaces should be inspected, cleaned, serviced and re-commissioned at least once yearly throughout the lifetime of the fire to maintain the guarantee.

COMMERCIAL USERS

Living Flame Fireplaces should be inspected, cleaned, serviced and re-commissioned at least twice yearly throughout the lifetime of the fire to maintain the guarantee.

THIS GUARANTEE SHOULD BE KEPT IN A SAFE PLACE ALONG WITH THE OPERATING INSTRUCTIONS.

9 Ventilation

Adequate ventilation for the fireplace cavity shall be provided in accordance with AS/NZS:5601.1:2013.

This fireplace has been designed to draw air into the fireplace to be used for combustion.

The blocking up or modifying of any of the airways of the fireplace in any way, could create a hazardous situation of either overheating or poor ventilation.

10 Gas Connection

A gas certificate must be given by a registered certifying craftsman gasfitter for the installation, connection and associated flue vent system.

All installation work should be carried out by a suitably trained and qualified person to comply with installation code AS/NZS:5601.1:2013 and then certified by a Craftsman Gasfitter.

Before installation commences, check the data plate on the fire to verify that the fire is set up to suit your type of gas supply. Field conversion to suit a different gas is not always practical.

This fireplace is supplied with a 10mm soft copper connection mounted at the bottom right hand side of the fireplace (as seen from the front).

A gas line capable of supplying a minimum of 60mj for each burner should be brought to the fireplace with a 10mm soft copper tail. This is to be connected to the 10mm soft copper pipe.

Other systems of connection may be used in accordance with AS/NZS:5601.1:2013.

11 Gas Supply

	Inlet Standing Pressure	Set Up Pressure
NATURAL GAS	2.0 kPa	HIGH 1.4 kPa
	LOW 0.7 kPa	
U/LPG – PROPANE	2.75 kPa	HIGH 2.5 kPa
	LOW 1.50 kPa	
Maximum Inlet Pressure	4.0 kPa	

If inlet pressure exceeds 4.0 kPa, then damage will occur and may result in a hazardous condition.

12 Test Pressures

Test nipple is located on the injection elbow before the main burner (LPG only) and on the control valve. For access, remove the ash cover drawer by means of two 4mm Allen screws.

13 Testing

The fire outlet pressures have been preset in the factory. To adjust:

Turn off the fire and loosen the test nipple screw;

Fit 6mm tube and test gauge securely;

Turn on the fire, check pressure settings on high and low;

Adjust control valve setting where required (refer drawing number 22 and the Rating Plate for correct adjustment and settings);

Turn off the fire, remove the gauge and tube. Secure the test nipple screw and replace the cover.

14 Controls

Customer Requirements:

- Show customer the appropriate control system.
- Ask them to operate it.
- Ensure the customer fully understands the control system and that they can operate it satisfactorily.

15 Flueing

This fireplace must be vented to outside atmosphere.

Flueing must be in accordance with the AS/NZS:5601.1:2013 and all local body bylaws.

Flue vent must be unrestricted.

The flue vent should be checked for correct height and location in relation to other objects in close proximity (refer to Flue Clearance Sheets).

Stand the fireplace in its proposed position, taking care to observe the minimum clearances shown.

Flues must be sealed to prevent damage from water or products of combustion leakage. Flues should be inspected and tested annually.

Note**:** If you are unsure, please refer to Living Flame Rules For Flues.

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Installation into New Homes and Fireplaces

In New Zealand every home is different from the next. Therefore, these are general guidelines for installation only.

A gas certificate must be issued at the finish of any installation of a gas appliance or gas pipework.

Flue planning should be checked for correct height and location in relation to other objects in close proximity (refer to Flue and Chimney Clearance sheet).

A gas connection should be brought into the right hand rear corner of the fireplace, sized for a capacity of 60 mj/hr for each burner to provide spare capacity in the gas line. Pressure test gas lines before connection to the fire.

Install the fire into position, level and fix. Connect a 10mm gas line from the rear of the fireplace to the gas supply line with a copper reducer and silfos joint (do not use a flare or gland fitting). Care should be taken when coiling any spare gas line at the rear of the fireplace that it does not touch the back of the fireplace.

Install flue components as required and connect to the hood and dust cover (if a timber framed installation).

A spigot plate can be ordered for the top of the chimney or an appropriate roof seal can be provided by the installer.

- The spigot plate is then nailed to the top of the chimney and plastered over and around up to the spigot.

  Or

- The roof seal is then tightly secured over the flue and sealed from the weather.

Trim flue and galvanised liner to same length and slip on anti-downdraught cowl and windskirt. In exposed areas, the cowl should be riveted onto the outside liner.

On completion of the fire installation, the flue should be inspected by the certifying person, in compliance with the New Zealand Standards, before cladding is fitted.

Turn on gas supply and bleed air from the lines. Commission fire, smoke test, set flame height and combustion test.

Some variations to these guidelines may be needed with different sized and shaped fireplaces.

If you have any doubts, please do not hesitate to contact Living Flame Fires for advice on installation.

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Installation into Existing Fireplaces

In New Zealand every home is different from the next. Therefore, these are general guidelines for installation only.

A gas certificate must be completed at the finish of any installation of a gas appliance or gas pipework.

Remove existing rear and side firebricks (if required).

Check measurements of opening height, width and depth.

Check chimney is clean and unrestricted. Size of chimney should not be less than 12% of the fireplace opening size.

Chimney should be checked for correct height in relation to other objects in close proximity.

A gas connection should be brought into the right hand rear corner of the fireplace, sized for a capacity of 60 mj/hr for each burner to provide spare capacity in the gas line. Pressure test gas lines before connection to the fire.

The firebox should be slid into place to check for size, levels and fixing.

The firebox may be fixed by its own front flanges or by side fixings under the front sloping vent.

Connect a gas line from the rear of the fireplace to the gas supply line with a copper reducer and silfos joint (do not use a flare or gland fitting). Care should be taken when coiling any spare gas line at the rear of the fireplace that it does not touch the back of the fireplace.

Slide firebox back into place and fix level.

Turn on gas supply and bleed air from lines.

Commission fire, smoke test, set flame height and combustion test.

Care should be taken not to buckle and dent trim.

Connection of gas supply must be carried out by a suitably qualified person.

Adequate ventilation must be provided for the operation of the fire.

Some variations to these guidelines may be needed with different sized and shaped fireplaces.

If you have any doubts, please do not hesitate to contact Living Flame Fires for advice on installation.

Note: IF YOU ARE UNSURE, PLEASE REFER TO LIVING FLAME RULES FOR EXISTING FIREPLACES.

Flue and Chimney Requirements 18

DESIGN

- A flue or chimney is required for these inbuilt Fireplaces.
- The flue size is determined by the size of the fireplace and is in direct proportion of the fireplace opening: 10% – 12% of the opening size for gas fireplaces.
- All flues must be double skinned with a 25mm minimum airspace. Flue materials should be a stainless steel inner flue with sealed joints, and a galvanised outer with airspace liner.

LINER INSTALLATION

- Flue outer airspace should be a minimum of 25mm from any combustible material.
- Flues may be offset at not less than a 10° angle from the horizontal.
- Flues should not be restricted in any way.
- Flues should be bracketed to take their own weight.
- Flues must have an anti-downdraught rain and wind cowl fitted.
- Roof flashing and seals should be the appropriate type for the roof.

HEIGHT

- When fitted in a building, the minimum effective height of the flue shall be at least 3m.
- Flues or chimneys should rise until there is a 2.5m clearance horizontally from any buildings or other obstructions. The flue then rises a further 500mm vertically from the clearance point, giving the correct height and wind clearance.
- The anti-downdraught cowl and windskirt should then be fitted.

LIVING FLAME

will be pleased to assist yourself or your architect with the design of the flue or chimney to achieve a result which functions correctly and has the desired appearance for your situation.

19 Flue Height Diagram

Refer drawing numbers 3a. and 3b.

20 Flue Components and Offset Rules

Refer drawings numbers 4a., 4b. and 4c.

21 Installation of Logs and Coals Effect

Only the coals, logs and embers supplied with this fire may be used on this fire and said coals, logs and embers may not be used on any other brand of fire.

Take care to avoid any damage to the diffuser blanket if the fire is to operate with NG. Install the vermiculite (embers) over the fire bed. See below for the correct depth of vermiculite.

LPG – the fire bed is completely full and embers are 20mm deep.

NG – the fire has a diffuser blanket with just a hand full of embers lightly scattered over the bed to cover the diffuser blanket.

Place the fixed set on the ember bed.

Gently settle the frame of the fixed set into the embers, ensuring that the metal frame is not visible.

When the fire is set correctly the flames should be approximately 75mm – 100mm tall on high and 25mm – 35mm tall on low.

- If the flames are incorrectly set, call your nearest Living Flame service engineer**.**

ROUTINE SERVICE 22

Check meter or cylinders
Pressure drop test gas lines
Inspect inbuilt fireplace
Dismantle fireplace and inspect components
Clean all components and body
Check operation of controls and safety devices
Check flue system is clear and clean
Check flue vent
Re-assemble fire
Check ignition system. Perform lighting test, minimum 20 out of 20
Check injector and pressure settings
Check fire effect, flame distribution and height
Complete assembly
Test flue vent system
Check complete operation of the fire
Final clean and dust
Re-light all other gas appliances
Re-demonstrate fireplace to owner to ensure owner has full understanding of the fireplace
Sign off service sheet with owner

Clearances and Trim Out 23

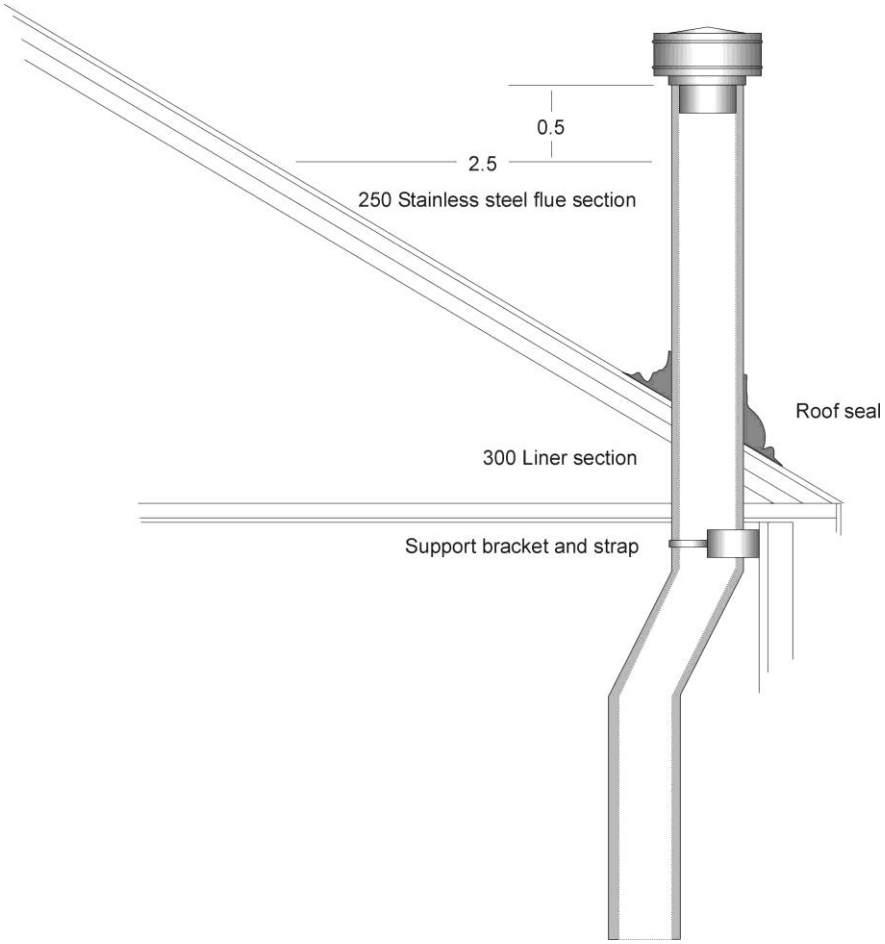
Refer page number 32.

Manual Variable Control

Drawing Number 2

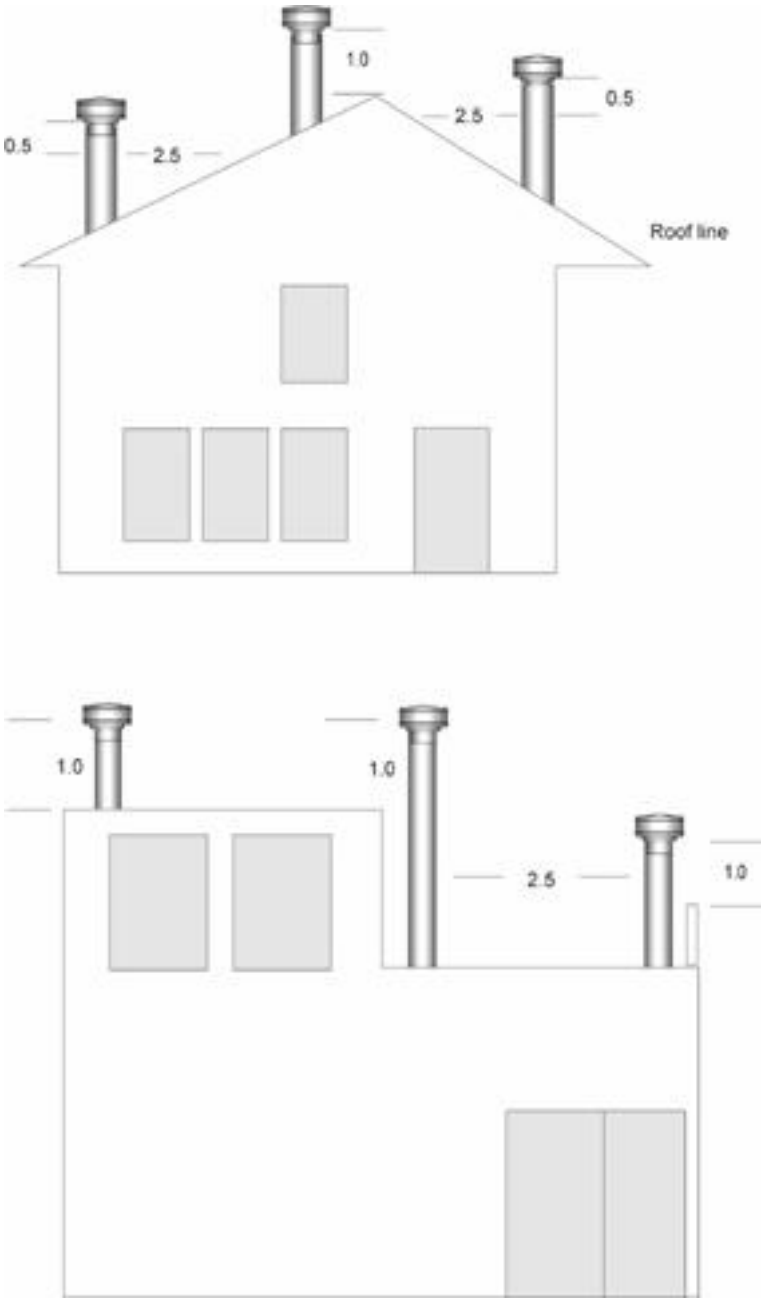
Flue Clearance

Drawing Number 3a



Cowl Clearances

Drawing Number 3b



Spigot Plate & Cowl and Windskirt

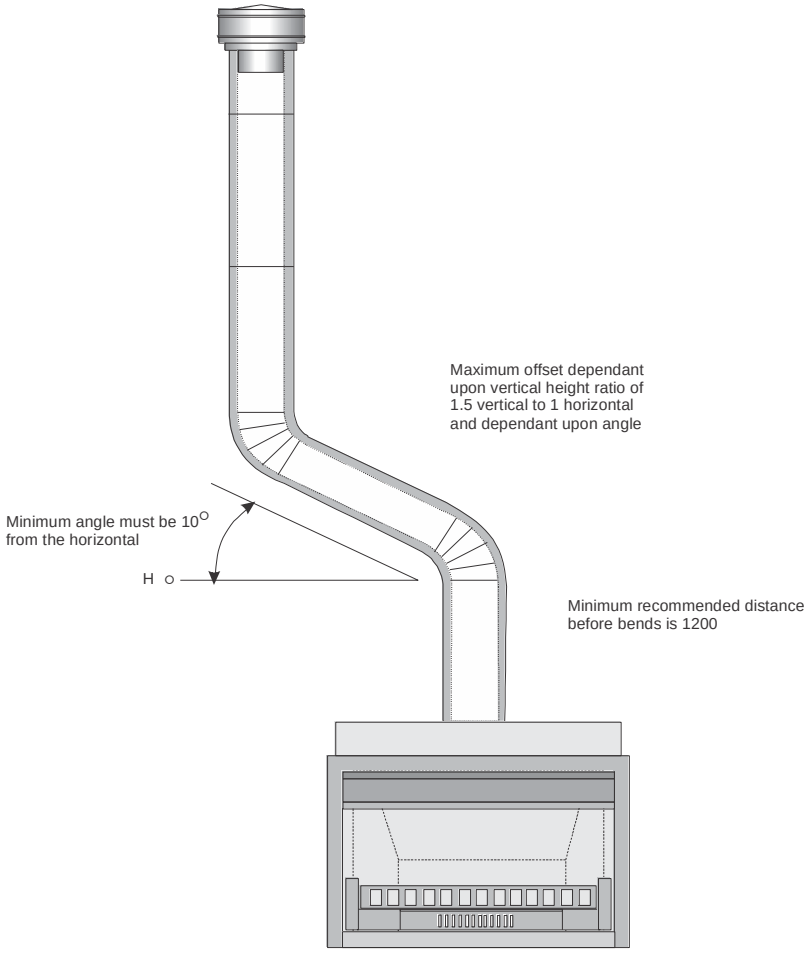
Drawing Number 4a

Fully Adjustable Bend & Bracket and Strap

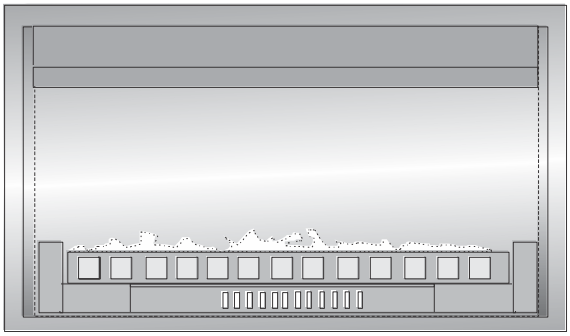
Drawing Number 4b

Flue Offset

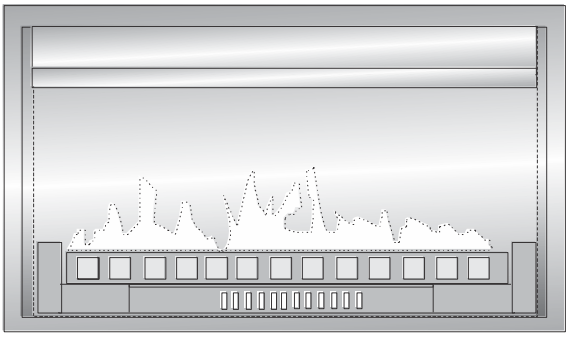
Drawing Number 4c



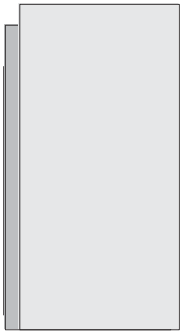
Outside 900 & 1200mm Aura Fireplace



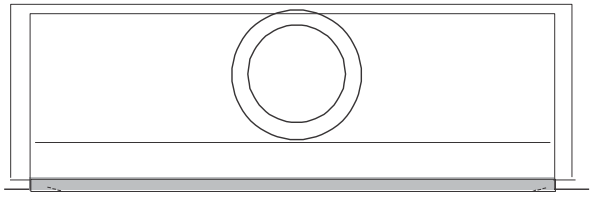
Aura on low



Aura on high

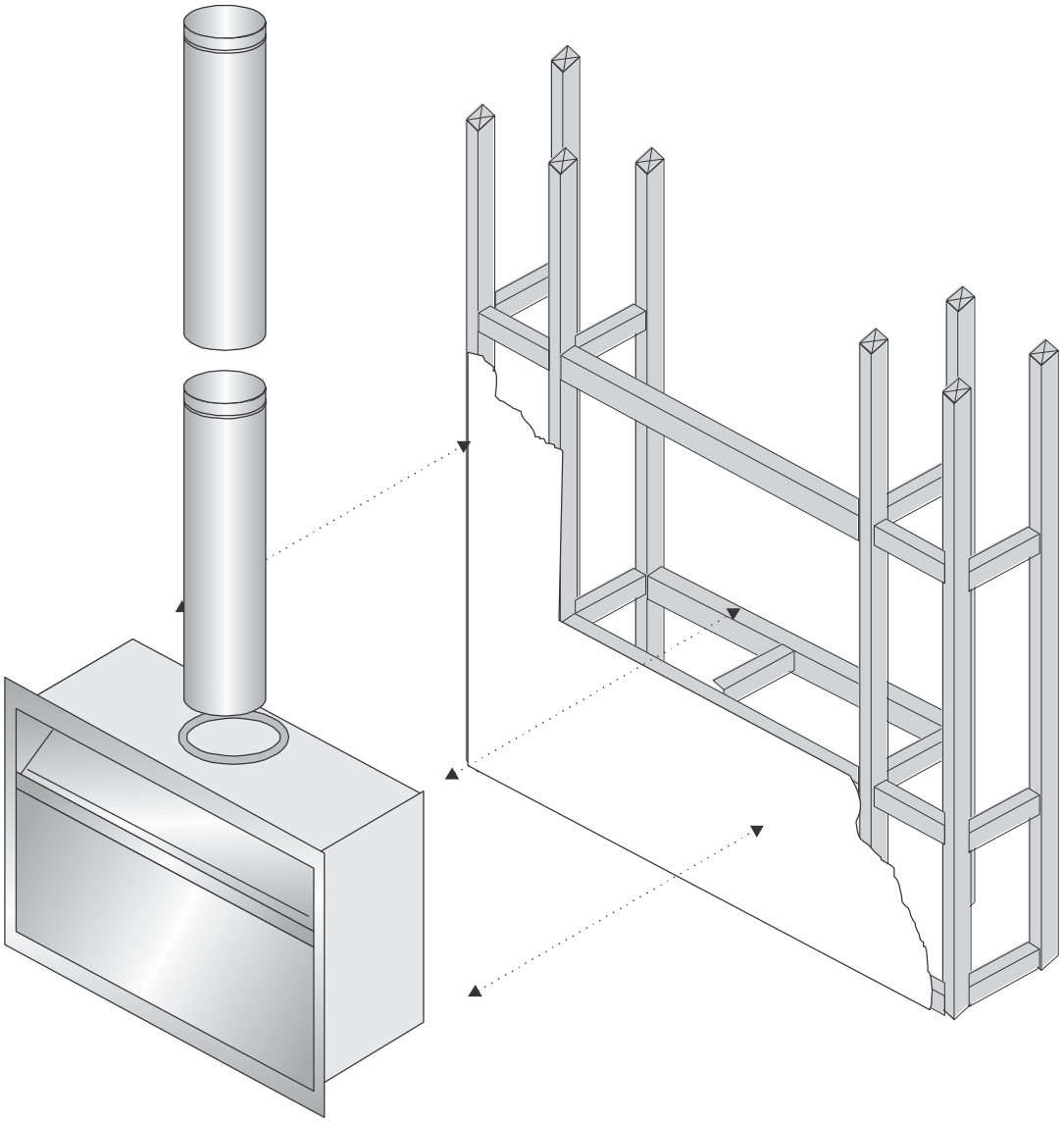


Side

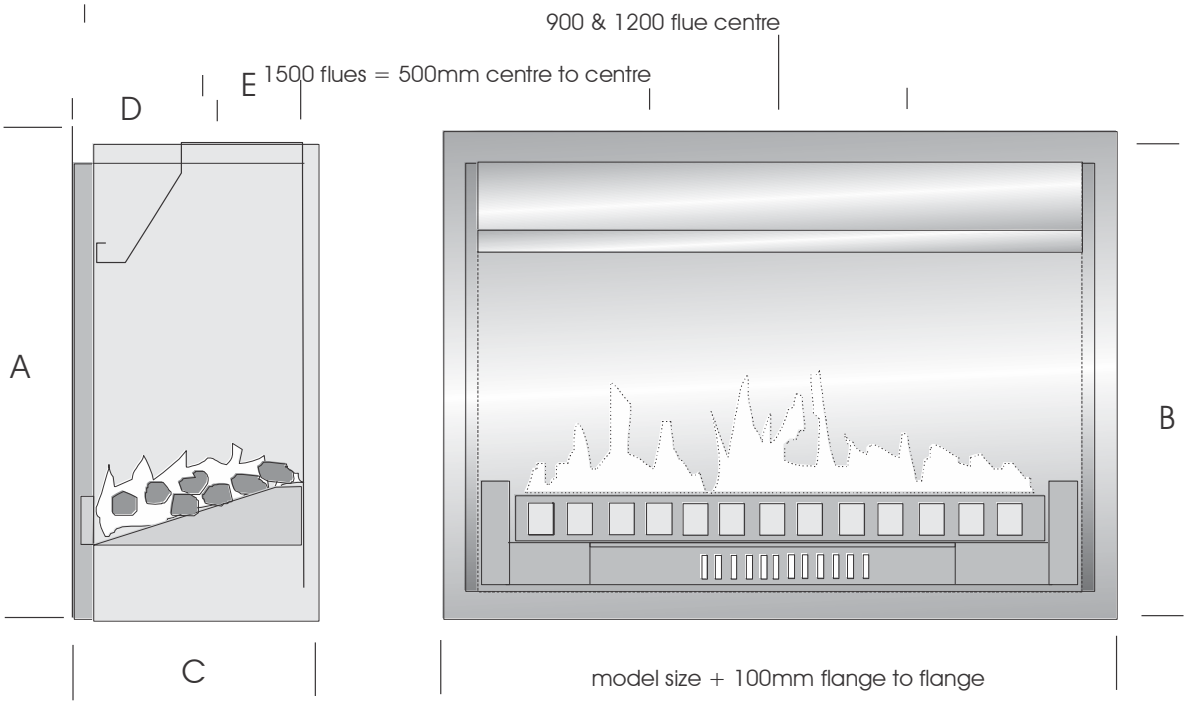


Top

Outside 900 & 1200mm Aura Fireplace



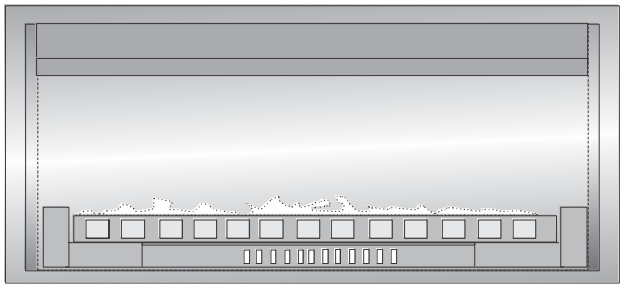
Outside 900 to 1500mm Aura Fireplace



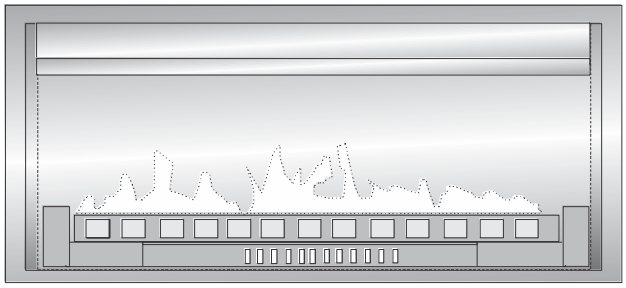
SIZE	A	B	C	D	E	F	G	H
900 mm	680	650	460	280	250	300	670	925
1200 mm	680	650	460	280	275	325	670	1225
1500 mm	680	650	460	280	2 x200	2x250	670	1525

A = Flange Height of Fireplace
B = Fireplace Body Height
C = Depth of Fireplace
D = Depth of front to centre of flue spigot
E = Flue Socket
F = Flue Liner
G = Builders Opening Height Minimum
H = Builders Opening Width Minimum

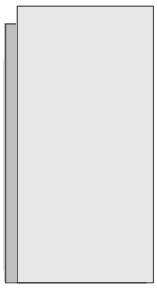
Outside 1500mm Aura Fireplace



Aura on low



Aura on high



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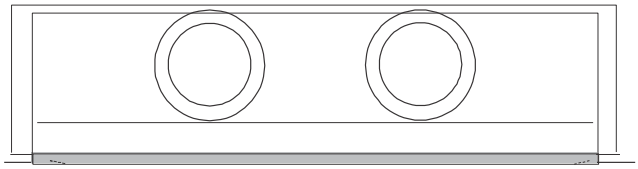
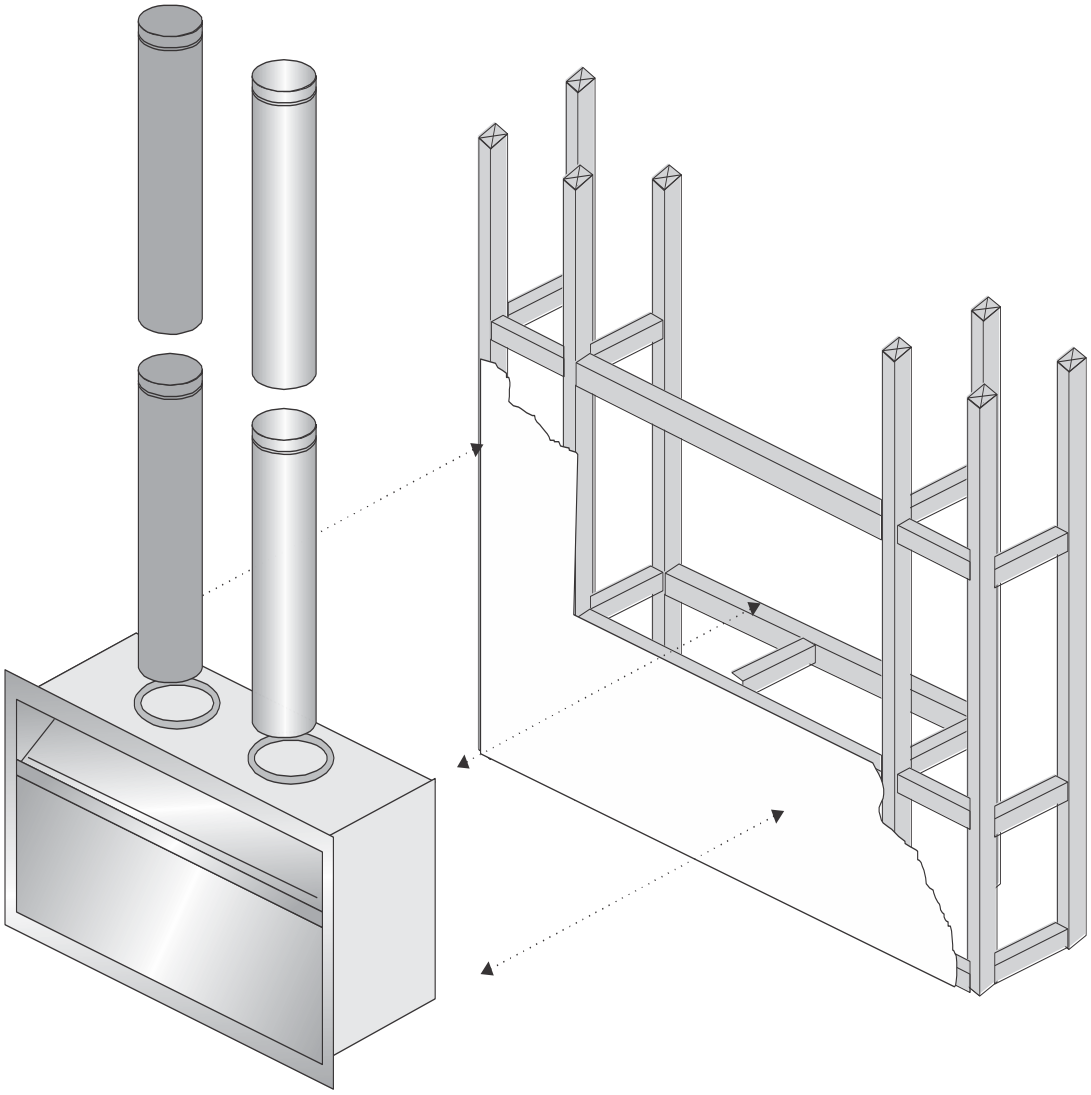


Top

Outside 1500mm Aura Fireplace



PO Box 12964
Penrose
AUCKLAND
PH: 09 622 1148
FX: 09 622 1179
EMAIL: info@livingflame.co.nz