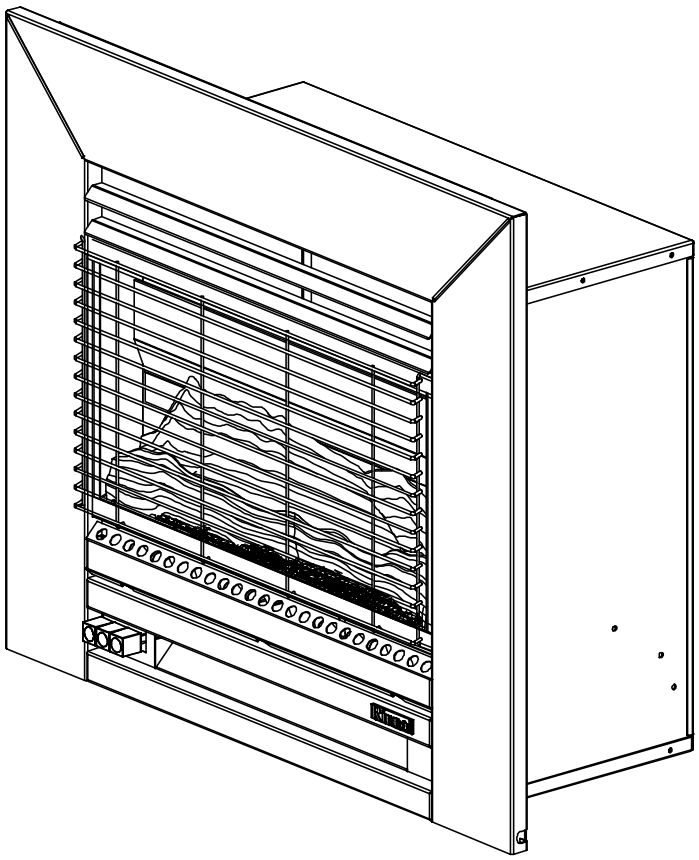
Rinnai

SERVICE MANUAL

Slimfire 25

INBUILT FLAME FIRE



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Quality System™ Quality Endorsed Company ISO 9001 Lic 4983 SAI Global Head Office Certified Distributed and serviced in Australia under a Quality System certified as complying with ISO 9001 by SAI Global	Rinnai Australia Head Office is certified as complying with ISO 9001 by SAI Global.
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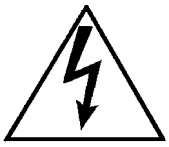
N10378	All Rinnai products carry the “C Tick” symbol. This signifies compliance with the Electromagnetic Compatibility (EMC) requirements of the Australian Communications Authority (ACA) which aim to minimise electromagnetic interference. Rinnai Australia Supplier Code N10378.

Produced by Technical Services Department
2003 - Issue 1

Key to Warning Symbols

Failure to comply with the following instructions may result in serious personal injuiry or damage to the appliance.



Be careful of possible electric shock. Wiring inside this appliance may potentially be at 240 Volts.

Remove the plug from the source when carrying out any of the following activities.

Read Fault Diagnosis and Wiring Diagram carefully to avoid incorrect wiring

Do not disassemble. Parts within cannot be exchanged or diagnosed faulty.

Please follow instructions carefully to ensure safe and appropriate service.
After completing the service and confirming that there no gas leaks or incorrect wiring, test operation of unit according to the Customer Operating Instructions. After confirming normal operation, explain what was serviced to the customer and operation principles if necessary.

This manual has been compiled by Rinnai Australia Customer Technical Services. While many individuals have contributed to this publication, it will be successful only if you - the reader and customer - find it useful. We would like to extend an invitation to users of this manual to make contact with us, as your feedback and suggestions are valuable resources for us to include as improvements. Rinnai are constantly working toward supplying improved appliances as well as information, and specifications may be subject to alteration at any time.

Slimfire 25
Issue Nº1

Table of Contents

Glossary of Terms and Symbols

This glossary of terms and symbols is provided to assist you in understanding some of the language used throughout this manual.

dB(A)	-	sound pressure level in decibels, “A” range
DC	-	direct current
AC	-	alternating current
Hz	-	Hertz
IC	-	integrated circuit
kcal/h	-	kilocalorie per hour
kPa	-	kilopascals
LED	-	light emitting diode
mA	-	milliamps
MJ/h	-	megajoule per hour
mm	-	millimetres
OHS	-	overheat switch
PCB	-	printed circuit board
CPU	-	central processing unit
POT	-	potentiometer
rpm	-	revolutions per minute
SV	-	solenoid valve
ø	-	diameter
$\Delta^\circ C$	-	temperature rise above ambient
POV	-	modulating valve
TH	-	thermistor

1. Introduction

The Inbuilt Flame Fire consists of a glass-fronted combustion chamber and heat exchanger system (incorporating 2 burners). Controls is by a lower front mounted Rinnai push-button operated multi-functional gas control. A convection fan is incorporated in the base.

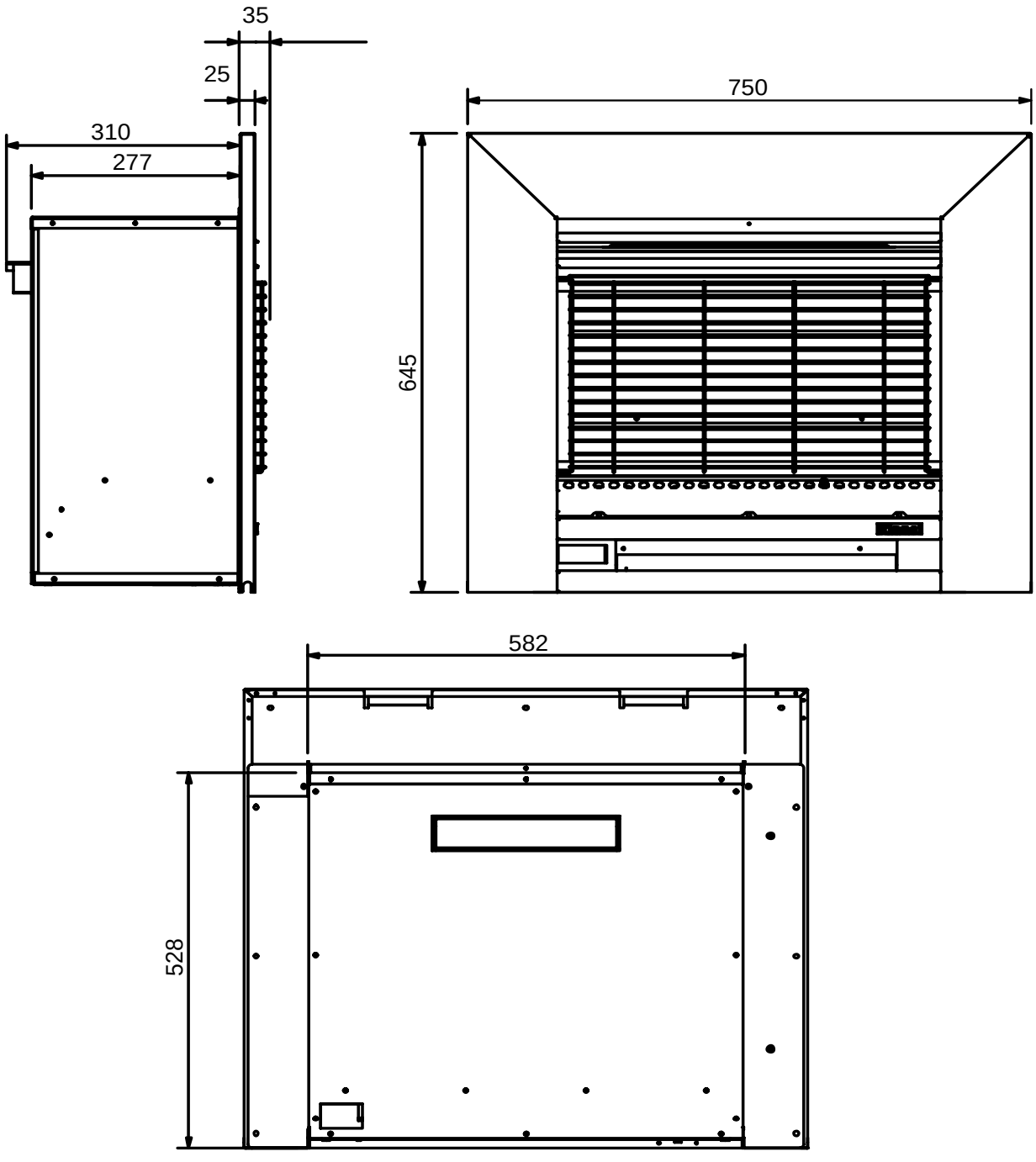
The heater is packed with the log set in the combustion chamber, retained by the glass panel which is removed for access.

2. Specifications

Model Name		Slimfire 25	
Name of appliance		Inbuilt Flat Front Flame Fire	
Description		Inbuilt Radiant/convector, glass fronted, ceramic log space heater with forced convection and nautual draft flue system	
Flue Outlet size		Rectangular rear spigot (245 x 43 mm)	
Flue Type		Convectional B Vent Flexible Liner Sealed Masonry Fireplace	
Electrical Consumption		Power cord 1.5 m in length Rated to 7.5 amps 3 wire, 3 pin plug	
Fireplace Cavity (mm)	Width	595	
	Depth	385	
	Height	550	
Heater Dimensions (mm)		**Case**	**Fascia**
	Width	585	750
	Depth	310	22
	Height	530	645
Weight	Kg	39	
Heating Output	MJ/h	20	
Burners		Ember bed and flame burner	
Noise level	dB (A)	45	
Gas Input (MJ/h)		**NG**	**LPG**
		High - 25	High - 25
		Medium - 14.2	Medium - 15.8
		Pilot / front - 7.7	Pilot / front - 9
Pilot Injectors		NG - 0.45	LP - 0.30
Connections	Electrical	AC240V 50Hz	
	Gas	1/2” BSP male flare to barrel union	
Room Temperature control		3 push button	
Warm air discharge		Top front louvres	
Control panel	Range Ignition (MJ/h)	LOW IGN NG - 7.7 LPG - 9	
		MEDIUM NG - 14.2 LPG - 15.8	
		HIGH NG - 25 LPG - 25	
	Switch	3 Push button	
Fan		Tangential, 2 speed power rating 28 Watts	
Flue Terminal		43 x 245 rear discharge	
Gas Control		Push Button combination control valve	
Ignition System		Continuous spark Electronic ignition	
Logs		Ceramic	
Operation	Operation method	Manual Push button control valve	
	Ignition method	Electric Spark ignition	
Remote control		No	
Safety features		Dress Guard	
		Flame failure - thermocouple / Magnetic cartridge	
		Overheat Protection / Thermal Switch	

3. Dimensions

Note: All dimensions are in millimetres



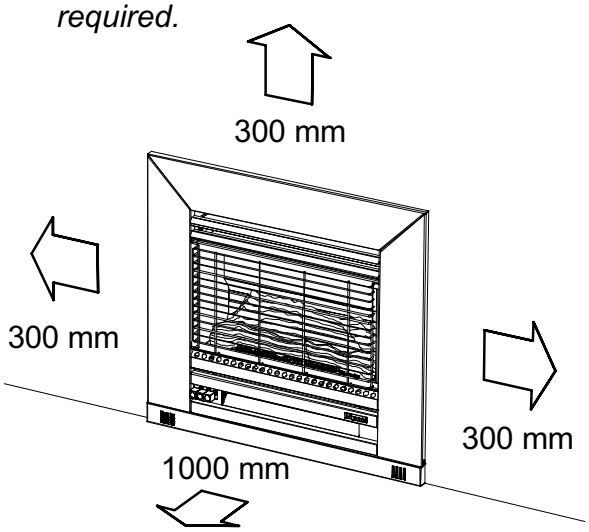
4. Installation

Installation and Service must be carried out by an authorised person only.

When positioning the heater, the main points governing the location are:

1. Flue connection and terminal to comply with AG601/AS5601
2. Warm air distribution
3. Ensure that the area in which the appliance is installed has adequate fixed ventilation, this fixed ventilation must be provided as per AG601/ AS5601 Clause 5.4 to 5.4.5.
4. The heater must not be installed where curtains or other combustible materials could come into contact with it. In some cases, curtains may need restraining.

   See below for minimum clearances required.



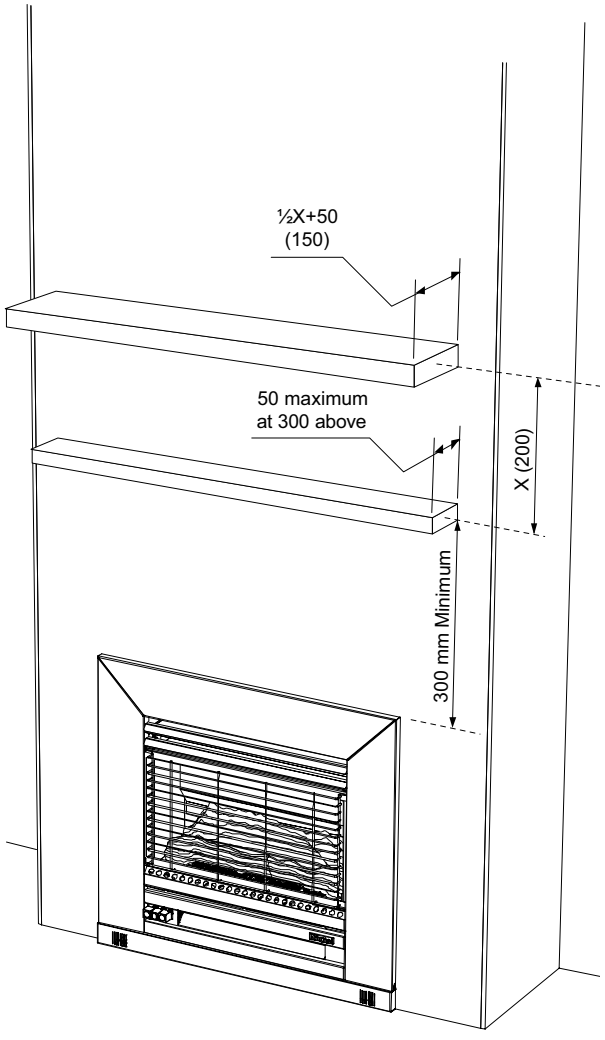
5. The heater is not designed to be built into bookcases or shelves or any combustible opening.
6. This heater must be mounted on a hearth not less than 50mm thick and at least the width and depth of the heater.
7. A gas appliance must not be connected to a chimney flue serving a separate solid-fuel burning appliance.
8. Before installing the heater, inspect the chimney, flue piping and/or solid fuel burning fire place and remove any combustible materials.
9. A zero clearance kit is available from your gas appliance retailer for installations into a combustible enclosure.

- **Mantles**

A mantle is allowable providing that it is outside the minimum clearances and the distance it protrudes is no more than half the distance it is above the heater.

See diagram below

(example dimensions shown in brackets)



5. Flueing

Vertical Twin Skin Flue Kit 02

Order code: **FLFKIT02**

Contains:

- 2 x 900mm Powder Coated Twin Skin Flue Pipes
- 1 x 450mm Powder Coated Outer Flue
- 2 x 900mm Galvanised Inner Flue Pipes
- 1 x Powder Coated Ceiling Ring *
- 1 x Chimney cowl
- 1 x Sleeve Clamp

** item not required for use in zero clearance installations.*

Alternately when installing a heater into a two story premises use the following kit.

Thru-Wall 2 Storey Kit

Order code: **FLFKIT03**

Contains:

- 1 x 900mm Powder Coated Twin Skin Flue Pipe
- 1 x 45° Black Twin Skin Offset and Wall Plate
- 1 x 45° Galvanised Twin Skin Offset and Wall Plate
- 4 x 1200mm Galvanised Twin Skin Pipe
- 1 x Galvanised Ceiling Plate
- 1 x Chimney cowl
- 1 x Sleeve Clamp

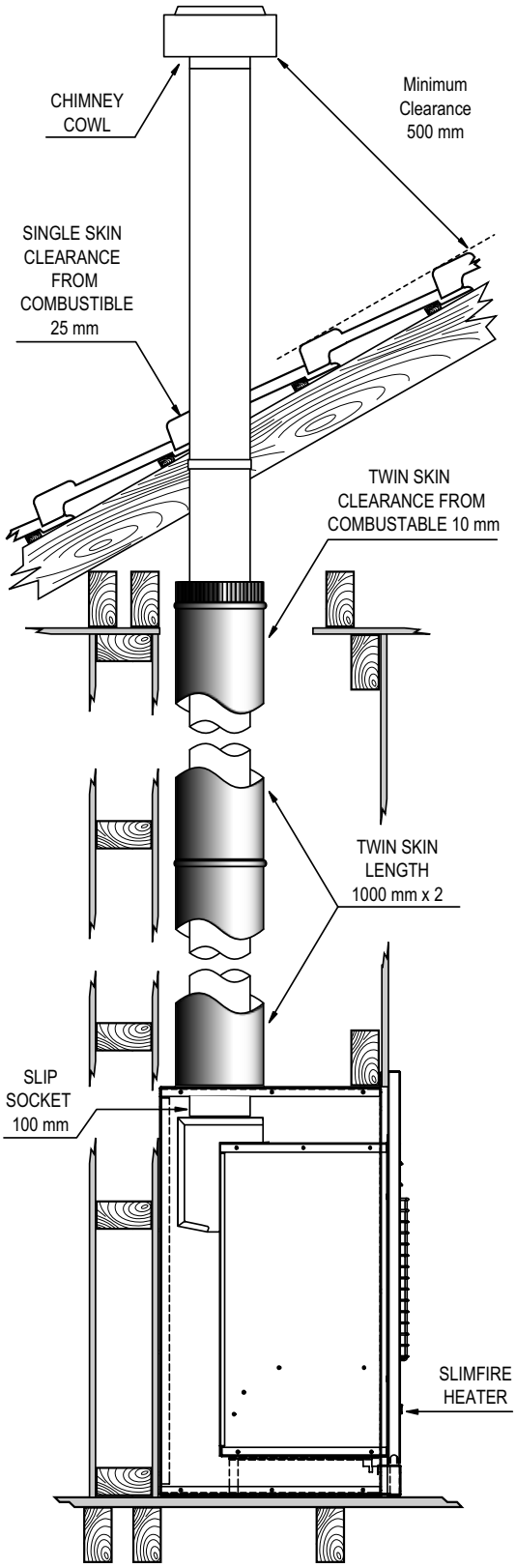
Note: Overall flue length approximately 6.3m

(plus height of appliance plus 765mm)

Maximum wall thickness 270mm

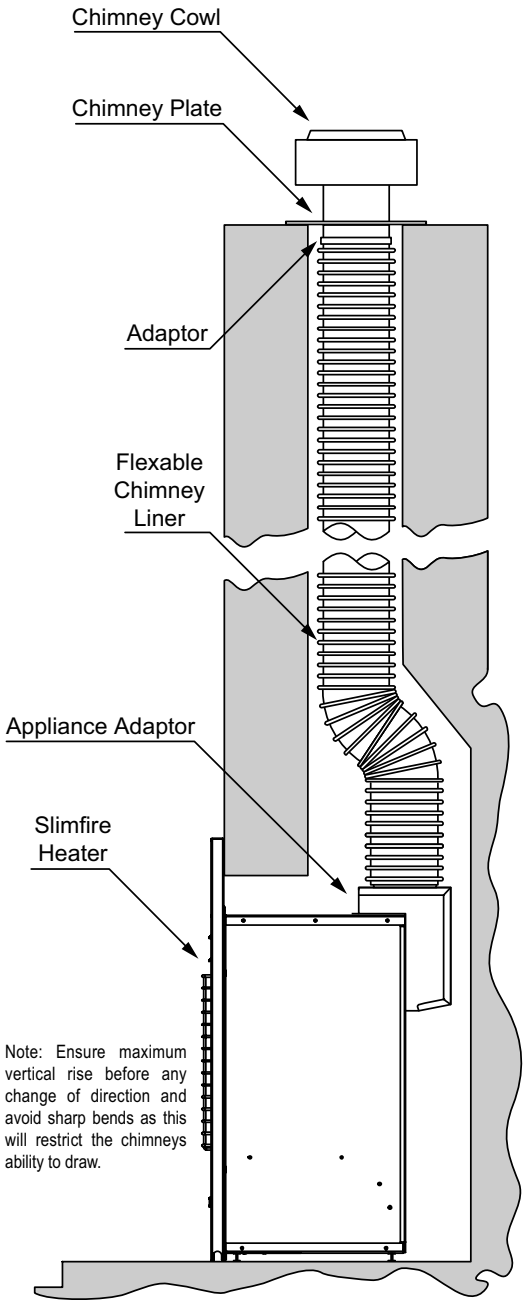
(Full installation instructions are supplied with all accessory kits)

FLFKIT02



Flueing in a fireplace using a Flexiliner flueing kit .

Installation with a flue liner is required when a chimney will no longer substitute as a flue, such as when leakage is found during the smoke test, or where the chimney height is inadequate.



Note: Ensure maximum vertical rise before any change of direction and avoid sharp bends as this will restrict the chimneys ability to draw.

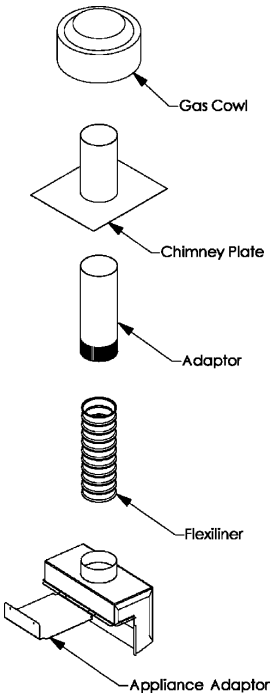
Flexiliner Slimfire Flue Kit

Order code: **FLEXILINER03**

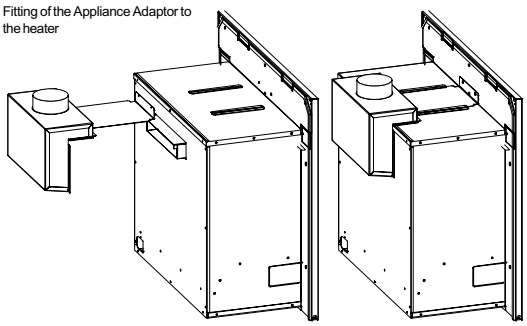
Contains:

- 1 x Chimney Cowl & Adaptor
- 1 x Chimney Plate
- 1 x Flexible Chimney Liner (extendable to 5.0 metres)
- 1 x Appliance Adaptor

If the chimney height excedes 5.0 metres, use Voumard 900 x 100 snap-lock flue (code: 72-0583) to extend to the desired length.



Fitting of the Appliance Adaptor to the heater



6. Operation Principles

(refer to customer installation manual - section 'How to operate the heater' - page 10)

IMPORTANT: You must read and understand these instructions fully <u>before</u> operating the heater

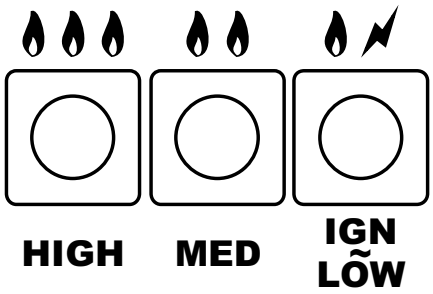
The controls are located on the lower left hand side of the heater.

- Ignition

Press the right hand control button firmly. This operates the built-in safety device and starts the electronic spark. The front burner will ignite. Check that the burner has lit and continue to hold the button down for up to 15 seconds. The spark will continue while the button is held down.

If the burner does not remain alight, push the button again and release it. This will return it to the "OFF" position. Wait 30 seconds, then repeat the ignition procedure.

(The ignition button must be in the "OFF" position before attempting re-ignition).



- To adjust the heat

Press the control buttons in order from right to left, this will ignite additional burners as shown in diagram below.

There is no need to hold the buttons for 15 seconds when increasing the heat.

- To turn the heater off

Press and release the buttons in order from left to right until all 3 buttons are in the "OFF" (OUT) position. The fan will stop when the heater cools down.

Ensure all burners are extinguished.

- **Fan operation**

The fan will operate automatically when the heater warms up, and will stop when the combustion chamber cools.

When the heater is on the "high" setting the fan will operate on high speed when the heater is hot.

When the heater is on the "low" or "medium" heat setting, the fan will operate on slow speed when the heater is hot.

When the heater is on its lowest setting the fan may turn off as the heater cools and restart when warm again.

NOTE: If there is a power failure when the heater is in operation the overheat protection may shut off the gas to protect the heater. In the event of a power failure, turning the heater to its lowest setting may allow the heater to continue operating without overheating.

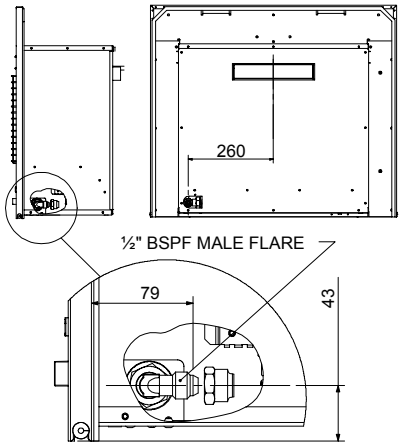
The fan will not work without electrical power.

The fan may continue to operate on slow speed when the burners have been extinguished until the heater cools down.

			Fan	Burner
1. Ignition/Low	7.7 MJ/h (NAT)	9 MJ/h (Propane)	Low	
2. Medium	14.2 MJ/h (NAT)	15.8 MJ/h (Propane)	Low	
3. High	25 MJ/h (NAT)	25 MJ/h (Propane)	High	

7. Main Componentry

Gas Connection



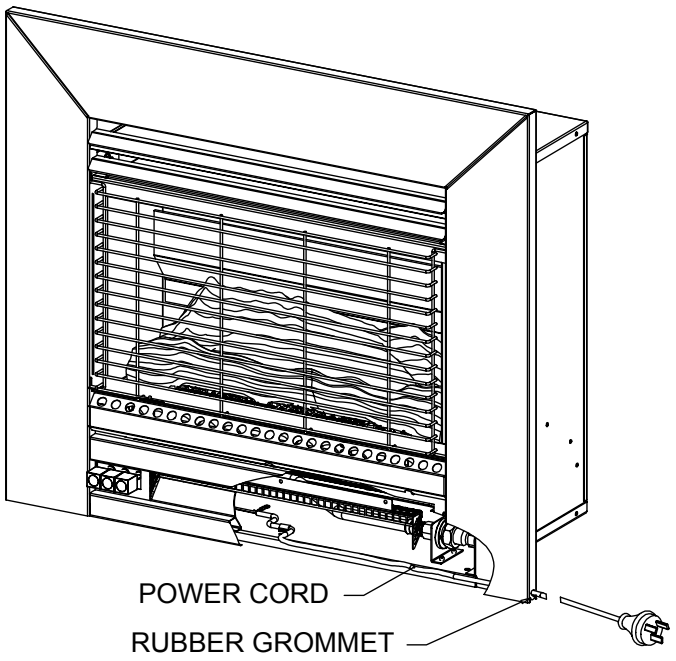
Run gas supply - for pipe sizing, refer to your local gas installation codes. Copper supply should be run leaving a flared connection at the position shown.
Purge supply of air and debris - all foreign materials such as fillings must be purged from the gas supply, as they may cause the gas control valve to malfunction.
Fit heater - when the heater is in place and properly secured, attached the gas supply to the supplied barrel union and tighten.
On completion of work a gas leak test must be carried out.

Log Installation

Remove the logset and granule packet from their packaging and place the logs in the combustion chamber. Note: the fit of the logs in the combustion chamber is all that is required for proper location, but care needs to be taken to make sure that the logset is sitting flat on the base of the chamber and is not sitting on the front edge of the burner box.
Carefully PLACE (do not pour) sufficient granules onto the front burner only. Avoid pushing the granules under the log or spilling over the front of the burner.
Replace the glass ensuring the joint in the glass sealing tape is at the bottom.

Electrical Connection

The heater has a power cord with a three pin plug supplied. The power cord passes through the slot in the lower left or right hand side of the heater front assembly and **must** be plugged into a 240V, 10A earthed power point. The power point must be a minimum of 300 mm to the side of the heater (it must not be above the heater).
Refer to local electrical codes if the power supply is to be concealed within the installation enclosure.



If the heater is to be installed into a combustible opening, the Rinnai Zero Clearance Kit ZEROS must be used.

Parts included in the Zero Clearance kit are:

1 Top panel
1 Base panel
2 Side panels
1 Rear panel
1 Flue adaptor
2 Base support runners
1 Plinth
1 pkt screws
1 Slip Socket

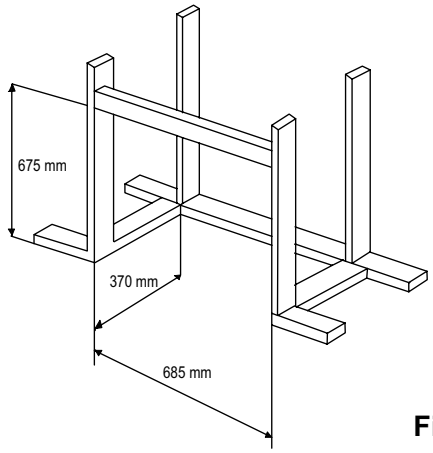


Fig.1

Build frame as set out in (Fig.1).

Lay the base panel on the floor with return fold upward.

Stand side panels on the outside of the base panel with the securing fold to the front as shown in (fig.2).

Slide rear panel between side panels, ensuring that the gas inlet hole is in the bottom right-hand corner.

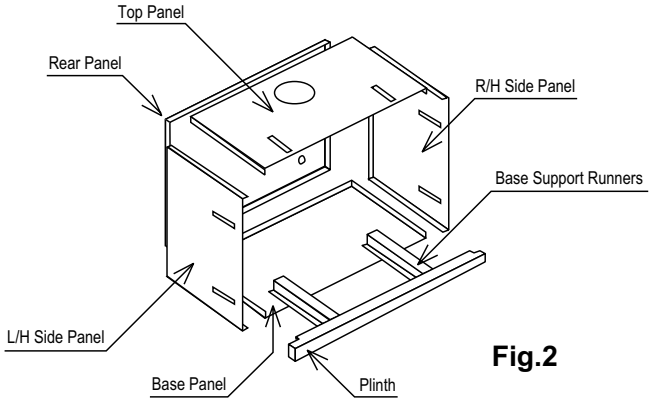


Fig.2

Place the top panel with the return fold forward, with the flue outlet to the rear.

The Zero Clearance Box should now be stable enough on its own to secure the self-tapping screws in the holes provided. (Fig. 3)

Run the gas line to the appropriate position.

The Zero Clearance Box can now be secured to the framing using the holes provided.

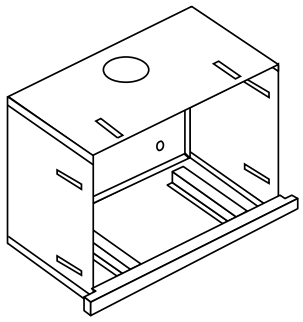


Fig.3

Securely connect the flue adaptor to the rear of the Slimfire heater (Fig.4).

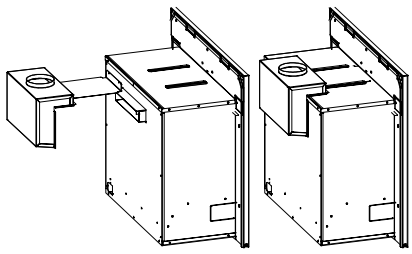


Fig.4

Rinnai Slimfire Zero Clearance Kit - Flueing

Only the FLFKIT02 & Flexliner 03 can be used in conjunction with the Zero Clearance Box

Check roof space for any flue obstructions. If the required clearance from flue to combustible material cannot be obtained (25mm), The flue can be offset with the use of two 45°Bends (FLFBEND).

Install the double-lined flue with 150mm black outer section to penetrate 30mm through the hole the Zero Clearance Box, and the inner section to penetrate 50mm. Note: Ensure the flue is fully supported independently of the appliance AS5601/AS601 Clause 5.13.4.2 and 5.13.4.3

When the heater is installed the slip collar is used to connect the heater to the flue.

This installation is designed to ensure that any residual heat in the Zero Clearance Box is ducted away up in the cavity between the inner and outer flue pipes.

Extend the flue outer to terminate in the roof space and the inner flue pipe to atmosphere in accordance with AS5601/AS601 Clause 5.13.6.

For single story installations use flue kit FLFKIT02 (Fig.5).

For two story installations use flue kit FLFKIT03

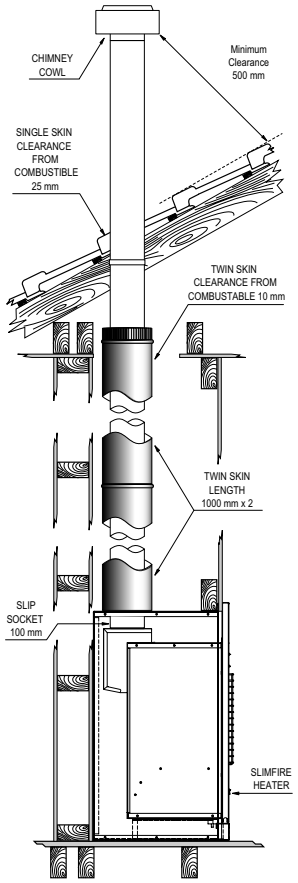
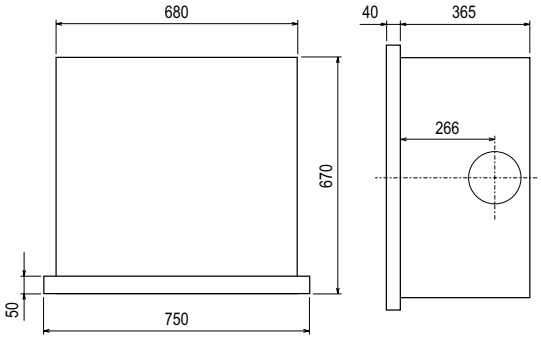


Fig.5

This appliance shall be installed in accordance with:

- **Manufacturer's Installation Instructions**
- **Local Gas Fitting Regulations**
- **Municipal Building Codes**
- **A.G.A. Installation code AG601/AS5601/ Gas Installations**
- **Any other local relevant Statutory Regulation**

Installation & Service must be performed by an authorised person.



8. Fault Finding

Rinnai recommends that this appliance be serviced every 2 years, including inspection of the flue system.
If the power supply cord, gas supply hose or any other component of the heater is damaged, they must be replaced by Rinnai or a suitably qualified person.
Any service or repair work should only be carried out by an authorized person.

SYMPTOM	CAUSE	SOLUTION
Burner will not light	No power present No gas present Power cut Air in gas supply pipe Ignition failure	Ensure power cord is plugged in and turned on Ensure gas supply is turned on Re-ignite when power has been restored Purge air (installer) Repeat lighting procedure (refer page 5)
Smell of gas	Leaking gas	Turn off gas at meter/LPG cylinder and call installer
Fan not working	Heat switch not activated No power present	Allow heater to run on "high" for about 5 minutes Ensure power cord is plugged in and turned on Check power supply
Small soot deposits	Normal operation	No action required
Severe soot deposits forming on logs or glass	Inadequate flue system Incorrect gas pressure Log misalignment	Call Rinnai service department/agent
Condensation on glass	Normal operation	Allow heater to warm up
Streaky lines on glass	Normal operation	Call Rinnai service department/agent

Do not remove any panels or attempt to carry out any service work other than that mentioned in the trouble shooting chart.

The user shall be advised that appliances incorproating a solid fuel effect, and designed to operate with luminous flames, may exhibit slight carbon deposits.

If you are unsure about the way your heater is operating, contact Rinnai Australia, or your local agent.

9. Gas Pressure Setting Procedure

Conversion Method

Warning-Ensure power cord is disconnected from power point (240V potential) and isolate gas supply. Allow appliance to cool.

1. Remove three screws securing front cover panel & remove front panel.
2. Remove two top screws on glass retaining bracket, remove bracket.
3. Loosen two bottom screws on glass retaining bracket.
4. Gently lift out glass panel & store safely.
5. Remove bottom retaining bracket.
6. Gently lift out log set and store safely.
7. Lift off front burner granules and store safely.
8. Check gas supply has been isolated to the appliance.
9. Disconnect RHS of flexible gas connection, near gas inlet.
10. Remove 2 screws on gas control mount.
11. Disconnect 2 polarized electrical plugs RHS of gas control.
12. Remove retaining screws and slide burner box from burner box support.(2 screws either side)
13. Remove burner retaining screw on RHS of front & rear burner.
14. Remove burners.
15. Remove burner aeration sleeves from burner and discard aeration sleeves.
16. Remove 1 screw to disconnect bracket retaining the middle gas supply tube.
17. Remove Natural gas by-pass injector and replace with Propane bi-pass injector.
18. Reconnect middle by-pass supply tube, **CAUTION** to be taken to ensure the “O” ring is correctly located and not damaged.
19. Remove burner injectors (Brae Jets)
20. Replace burner injectors taking care to fit the correct size injector to the correct burner.
21. Remove large screw nut from base of pilot burner. (Move small access panel)
22. Unscrew pilot injector and discard.
23. Re-fit Propane pilot injector,
24. Replace large screw nut on base of pilot.
25. Replace burners and secure.
26. Replace burner tray and secure
27. Replace gas control mounting screws
28. Reconnect 2 polarized electrical plugs
29. Re-connect flexible gas supply hose.
30. Remove existing large Nat Gas type sticker and replace with Propane Gas sticker.
31. Remove existing small Nat Gas type sticker and replace with Propane Gas sticker.
32. Re-fit log set, ensuring correct location within heater.
33. Replace granules on front burner by spreading evenly. Only use large granules, not dust.
34. Re-fit bottom glass retaining bracket & re-fit glass
35. Re-fit top retaining glass and tighten screws. (Don’t over tighten)
36. Tighten screws on lower retaining bracket. (Don’t over tighten)
37. Connect gas to appliance and check for gas escapes on flexible connection.
38. Remove burner test point screw and attach hose and manometer.
39. Restore power supply to unit.
40. Turn heater on and adjust regulator to specification on data plate for Propane Gas **(2.0kPa)**.
41. Turn heater off.
42. Remove manometer & hose
43. Replace test point screw.
44. Turn heater on and check for gas escapes from test point screw.
45. Turn heater off.
46. Refit front cover and mesh.

10. Testing and Commissioning

TESTING PROCEDURE

Turn gas supply on and plug the unit into the power supply. (Caution 240V.)

TO CHECK BURNER PRESSURE

- Refer to Data Plate; (Refer Table 1 below).
- Remove front cover panel.
- Remove test point screw and attach manometer to test point, the test point is on the front injector block.
- Light heater, turn to High heat setting and check pressure.
- If adjustments are necessary, the regulator is situated on the front of the gas control and should be set to the pressures on the data-plate.
- After checking pressure, turn the unit off, remove manometer and replace test point screw.
  Check for gas escapes on test point screw.
- Turn the heater on and off a few times to check ignition.
- When you are satisfied that the heater is working correctly, reassemble panels.
- All burner aerations are factory preset and cannot be adjusted.
- If you are unable to get the unit to operate correctly, refer to Troubleshooting on Page 8, before contacting your local service contact as listed on Page 20.
- It may take approximately 2 hours of operation for the logs to achieve their full flame pattern and glow.
- During the initial burning in period, some smoke and smell may be experienced, the heater should be run on the high setting in a well ventilated room until these dissipate.

It is the responsibility of the installer to check that under normal operating conditions of the appliance, all flue gases are exhausted to the outside atmosphere and that there is no spillage of combustion gases into the room. Please refer to AS 5601 / AG 601, Clause 5.13.3.3.

- **Commissioning**

INSTALLATION AND COMMISSIONING CHECKLIST

Complete the installation checklist and the installer details on page 19 and make sure that this instruction book is left with the customer.

INSTRUCT CUSTOMER ON USE OF UNIT

Explain to customer about use and care of unit. Make sure the customer understands the instructions and the operation of the appliance.

The guard on this appliance conforms to A.G.A. requirements. It is designed to prevent the risk of injury from burns and no part of it should be permanently removed. IT DOES NOT GIVE FULL PROTECTION TO YOUNG CHILDREN OR THE INFIRM.

The manufacturer reserves the right to change or modify specifications without notice.

Table 1:

Burner Pressure Settings		
All Burners turned on HIGH	Natural Gas	Propane
	0.92 kPa	2.30 kPa

11. Dismantling for Servicing

NOTE: *Before proceeding with dismantling, be sure to follow the CAUTION instructions before each explanation.*

CAUTION

240 Volt exposure. Isolate the electrical supply to the appliance and reconfirm with the neon screwdriver or multimeter. Disconnect gas supply.

All work should be carried out by qualified service technician

ITEM **PAGE**

Unless otherwise stated, re-assembly is the reverse of dismantling.

CAUTION

240 Volt exposure. Isolate the electrical supply to the appliance and reconfirm with the neon screwdriver or multimeter. Disconnect gas supply.

All work should be carried out by qualified service technician

1) Remove of Front Panel

a. Remove 3 screws at the bottom of unit.

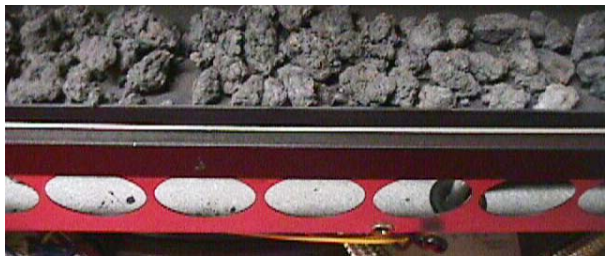
2) Remove Glass Front

a. Remove top 2 screws and bracket and loosen bottom 2 screws.
b. Lift glass up and out.

Note: Joint in seal on lower edge of glass.

3) Removal of Log set

a. Lift log set up and out.
b. Remove granules by unscrew retaining screw right hand side of front burner.
c. Lift burner with granules up and out **carefully to avoid spillage of granules.**



4) Remove Rear Burner

a. Remove retaining screw right hand end and lift burner clear from injector.

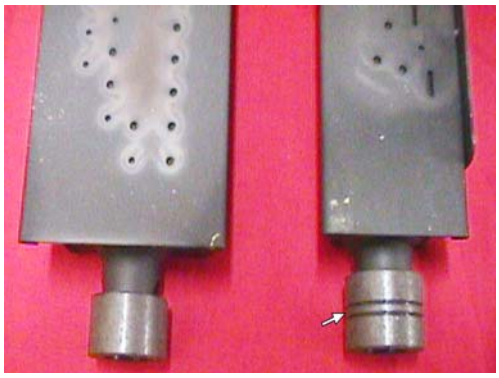
CAUTION

240 Volt exposure. Isolate the electrical supply to the appliance and reconfirm with the neon screwdriver or multimeter. Disconnect gas supply.

All work should be carried out by qualified service technician

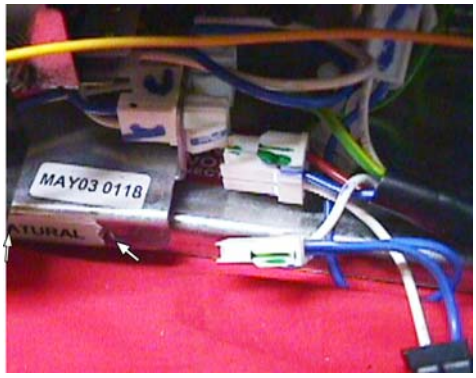
5) Details of Aeration Sleeves and Burners

a. Ensure you do not drop aeration sleeves when removing burners.
b. Right hand side burner has full sleeve 2 notches for NG burners.
c. LPG burners do not have aeration sleeves.



6) Remove gas control / pilot assembly and burner tray

a. Unscrew 2 screws under gas control.
b. Remove 2 screws either side of burner tray.
c. Undo gas nut right hand side using 3/4" spanner.
d. Remove lower glass support bar 2 screws.
e. Undo 2 cable ties and disconnect plug to fan temperature switch.
f. Disconnect power cord 2 pin plug.
g. Disconnect 2 plastic plugs under gas control.
h. Side out burner tray swing to left hand side.



7) Ignition system and PCB

a. Remove 2 pin ignition plug.
b. Remove high tension igniter lead.
c. Remove earth wire screw and star washer.
d. Remove 1 self tapping screw lower edge PCB.
e. Slide PCB towards front of unit and remove.

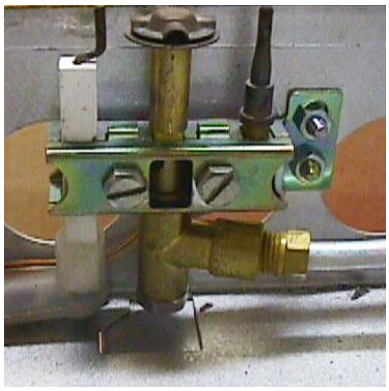
CAUTION

240 Volt exposure. Isolate the electrical supply to the appliance and reconfirm with the neon screwdriver or multimeter. Disconnect gas supply.

All work should be carried out by qualified service technician

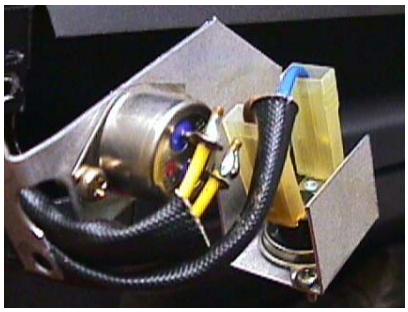
8) Servicing pilot

a. To remove pilot injector and ignition plug. Swing forward cover plate in base of burner tray.
b. Undo screw in base of pilot assembly.
c. Unscrew pilot injector.
d. To remove pilot burner assembly - remove 2 mounting screws. Undo 2 bolts on pilot retaining clamp, and undo pilot nut and tube.
e. Remove pilot assembly.
f. Remove thermocople lead, push down on grommet on the base of tray.
g. Disconnect thermocouple lead connection rear of gas control.



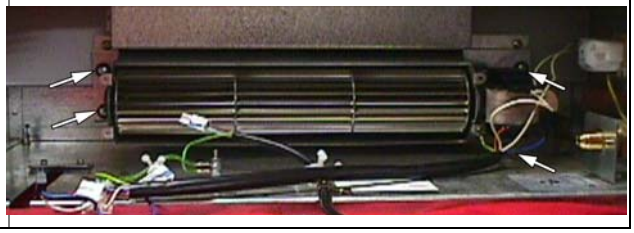
9) Overheat / Fan Activation switch

a. Remove 2 mounting screws from cable cover left hand side of heater.
b. Remove 2 screws 1 for the overheat activation switch and 1 x fan switch left hand side of Heater.
c. Remove 1 mounting screw top left hand corner of heat exchanger which is the mounting bracket and lift bracket away from heat exchanger.
d. Unplug wires.

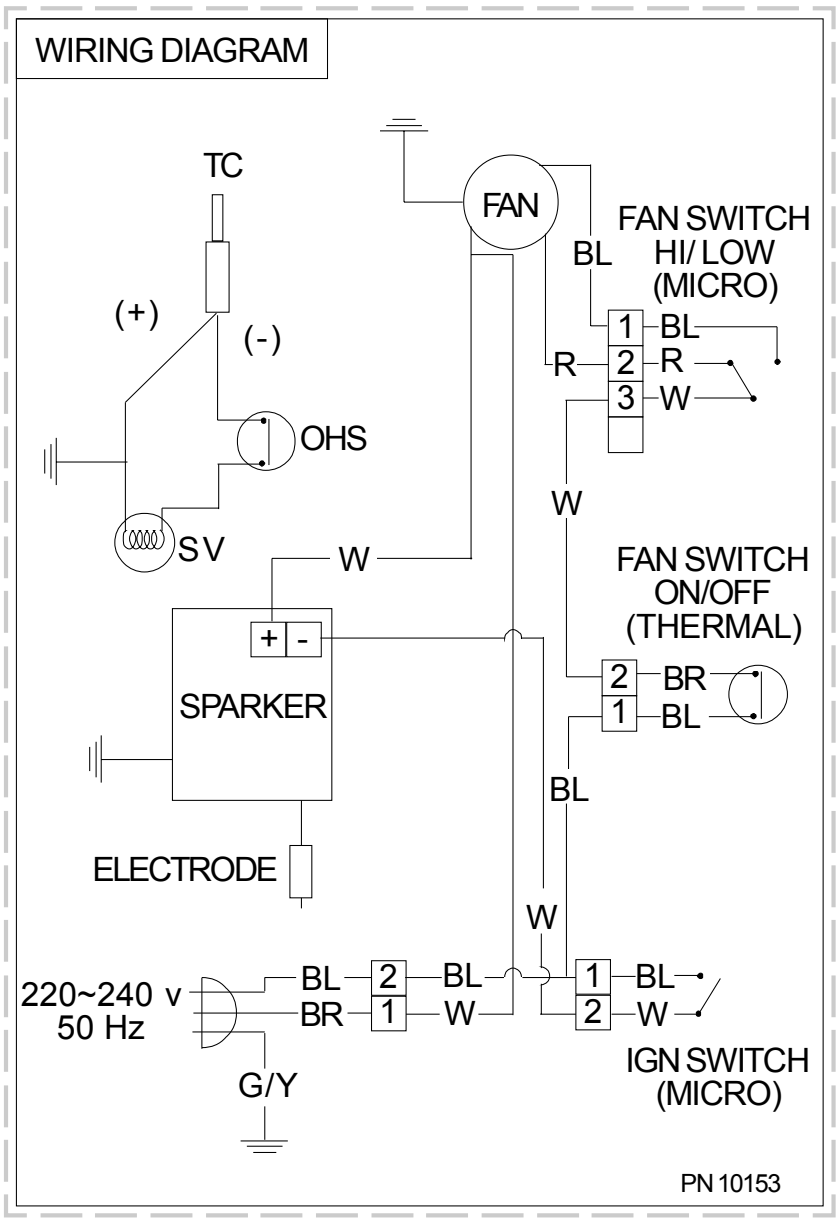


10) Removal of Fan

a. Remove wires from earth, wire front frame on fan loom.
b. Remove 4 screws. 2 each side of fan mounting plate.
c. Lower fan and remove.



12. Wiring Diagram

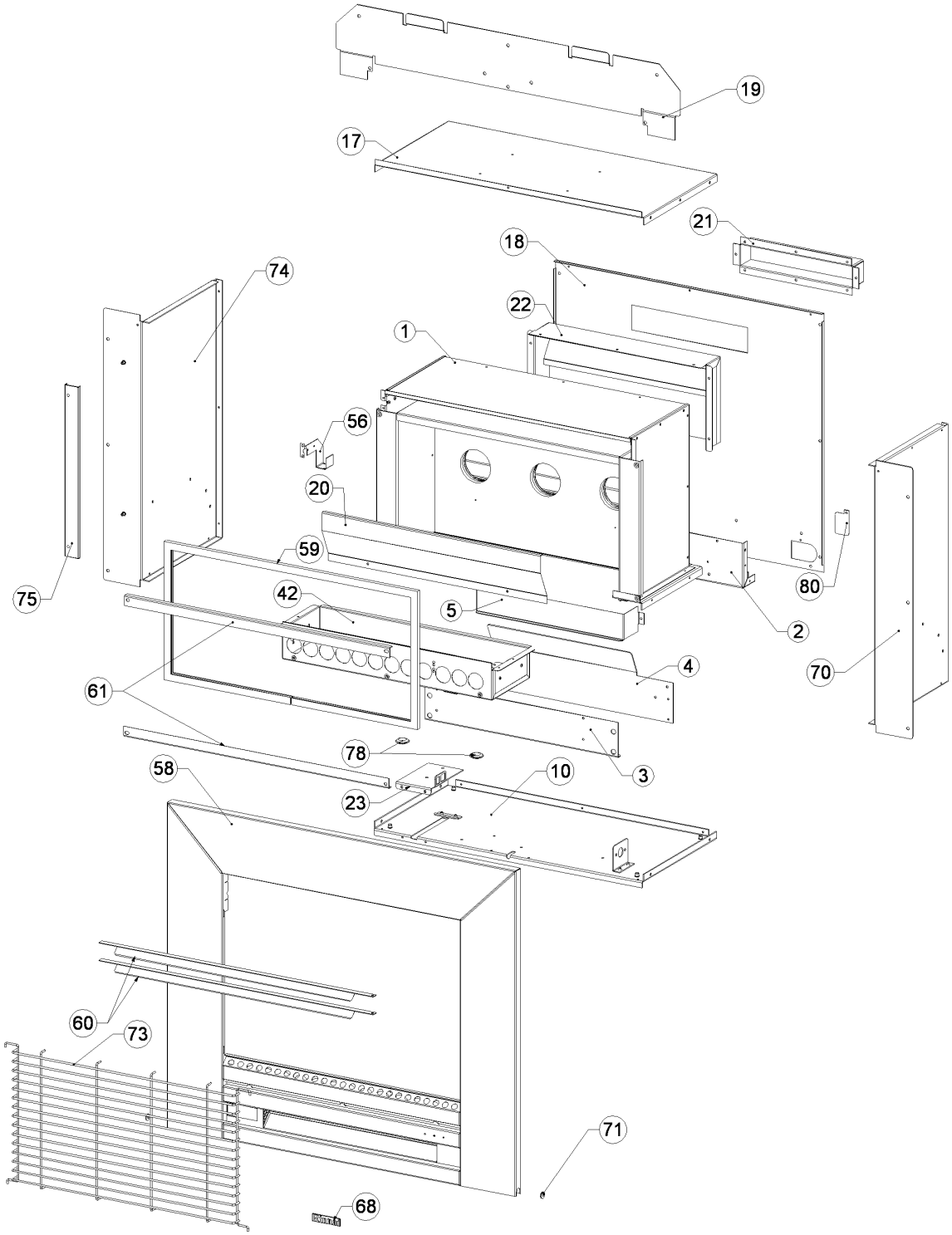


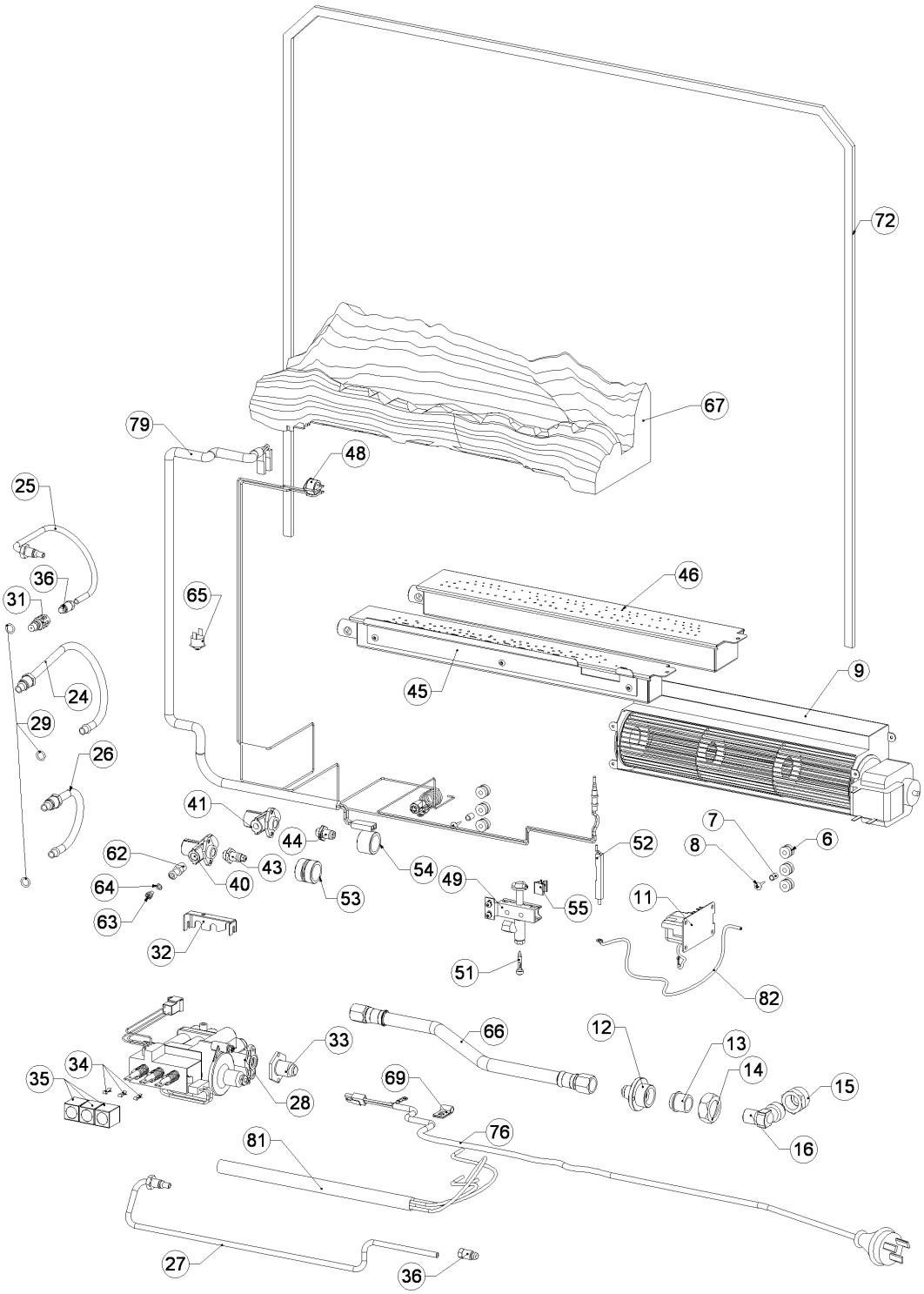
R	RED
BL	BLUE
BR	BROWN
W	WHITE
G/Y	GREEN YELLOW

OHS	OVER HEAT SWITCH
SV	SOLENOID VALVE
TC	THERMOCOUPLE

If the supply cord is damaged or requires replacing, it must be replaced by the manufacturer or the manufacturer's agent or similarly qualified person in order to avoid a hazard. The supply cord must only be replaced with a genuine Rinnai spare part.

13. Exploded Diagrams

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14. Parts List

SLIMFIRE IBF-25

Item	Description	RA Part No.	RNZ Part No.	Qty
001	COMB CHAMBER ASSY PAINTED		10108	1
002	FAN SUPPORT PANEL		10122	1
003	FAN MOUNTING BRACKET		10124	1
004	FAN BRACKET PANEL		10123	1
005	FAN GUIDE PANEL		10125	1
006	FAN MOUNTING GROMMET		7129	6
007	FAN MOUNTING SLEEVE		7130	2
009	FAN	90193392	10100	1
010	BOTTOM PANEL ASSY	90193582	10102	1
011	SPARKER	90169384	6917	1
012	ADAPTOR GAS CONNECTION		10148	1
013	INLET BARREL		10160	1
014	REG BARREL UNION NUT		6679	1
015	NUT 1/2		5064	1
016	REG GAS INLET ELBOW	90144973	6680	1
017	PANEL TOP		10105	1
018	PANEL REAR		10106	1
019	PANEL TOP FRONT	90193418	10107	1
020	PANEL HEATSHIELD		10109	1
021	PANEL FLUE SPIGOT ASSY		10119	1
022	PANEL DRAFT HOOD ASSY		10120	1
023	CONTROL MOUNTING BRACKET		10126	1
024	GAS SUPPLY TUBE A		10130	1
025	GAS SUPPLY TUBE B		10131	1
026	GAS SUPPLY TUBE C		10132	1
027	GAS SUPPLY TUBE PILOT		10134	1
028	GAS CONTROL ASSY	90193426	4995	1
029	O RING		6642	3
031	BYPASS ORIFICE 0.9 LP	90193707	10159	1
031	BYPASS ORIFICE 1.4 NG	90193717	10158	1
032	TUBE MAIN GAS RETAINER		6643	1
033	INLET ADAPTOR	90193434	7856	1
034	BUTTON SPRING		6618	3
035	CONTROL BUTTON	90193442	6617G	3
036	OLIVE 6 mm		7519	2
040	INJECTOR BLOCK A+B+C+D		7958	1
041	INJECTOR BLOCK A+B+C		7959	1
042	PANEL BURNER BOX ASSY		10111	1
043	INJECTOR BRAY 95 SINGLE LPG	90188186	7173	1
043	INJECTOR BRAY 170 MULTI NG	90183864	7184	1
044	INJECTOR BRAY 170 MULTI LPG	90183864	7184	1
044	INJECTOR BRAY 460 MULTI	90193723	7156	1
045	BURNER FRONT ASSY	90193459	10128	1
046	BURNER REAR ASSY	90193467	10129	1

Item	Description	RA Part No.	RNZ Part No.	Qty
048	THERMOCOUPLE ASSY	90193475	10157	1
049	PILOT ASSY C/W INJ 0.45 NG	90182290	7008	1
051	INJECTOR PILOT 0.30 mm LP	90186495	7009	1
051	INJECTOR PILOT 0.45 mm NG		9600	1
052	ELECTRODE	90187808	7521	1
053	AERATION SLEEVE 21 mm NG only	90193486	7296	1
054	AERATION SLEEVE 17 mm NG only	90183880	7258	1
055	THERMOCOUPLE RETAINER		9377	1
056	BRACKET TEMP SWITCH		10115	1
058	FRONT ASSEMBLY - BLACK	FLFSFB	10181	1
058	FRONT ASSEMBLY - STAINLESS STEEL	FLFSFS	10199	1
059	GLASS ASSEMBLY		10182	1
060	LOUVRE TOP BLACK	90193509	10144B	2
061	GLASS RETAINER	90193517	10142B	2
062	PRESSURE TEST POINT		9992	1
063	PRESSURE TEST POINT SCREW		9994	1
064	PRESSURE TEST POINT PACKING		9995	1
065	SWITCH FAN	90169368	6635	1
066	HOSE STAINLESS STEEL		10147	1
067	LOG SET C/W GRANULES	90193525	10101	1
068	BRAND BADGE SILVER	90193533	5327	1
069	POWER LEAD CLAMP		9552	1
070	PANEL SIDE RH	90193541	10104	1
071	RUBBER GROMMET		7132	2
072	FLUE SEAL	90187253	7171	1
073	DRESS GUARD	90193558	10145	1
074	PANEL SIDE LH	90193565	10103	1
075	PANEL WIRE COVER		10162	1
076	POWER CORD		6765B	1
079	HARNESS FAN SWITCH		10161	1
080	WIRE HARNESS	90195710	10168	1
082	SPARKER LEAD	90189440	7205	1

Notes

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