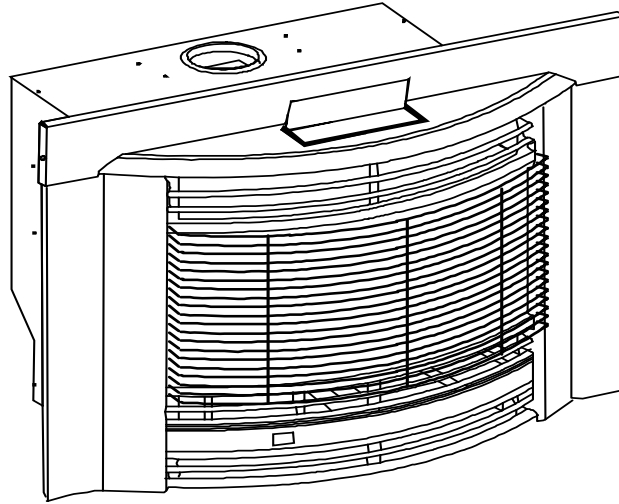


Rinnai

INBUILT ROYALE - ETR

FLAME FIRE

Customer Operation & Installation Manual



This appliance shall be installed in accordance with:

- **Manufacturers Installation Instructions**
- **Local Gas Fitting Regulations**
- **Municipal Building Codes**
- **Installation code AS/NZS 5601 'Gas Installations'**
- **Any other local relevant Statutory Regulation**

Installation & Service must be performed by an authorised person.

This heater is NOT designed to be built directly into a combustible opening.

For combustible opening installations, a Rinnai zero clearance kit must be used and is available from your gas appliance retailer.



**The Australian
Gas Association**
All Rinnai gas products are
A.G.A. certified



N10378



**Quality
Endorsed
Company**
ISO 9001 Lic 4983
SAI Global

INSTALLER: PLEASE LEAVE THIS MANUAL WITH THE END USER AFTER INSTALLATION
END USER: RETAIN THIS MANUAL FOR FUTURE REFERENCE



WARNING

IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE OR MAINTENANCE CAN CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

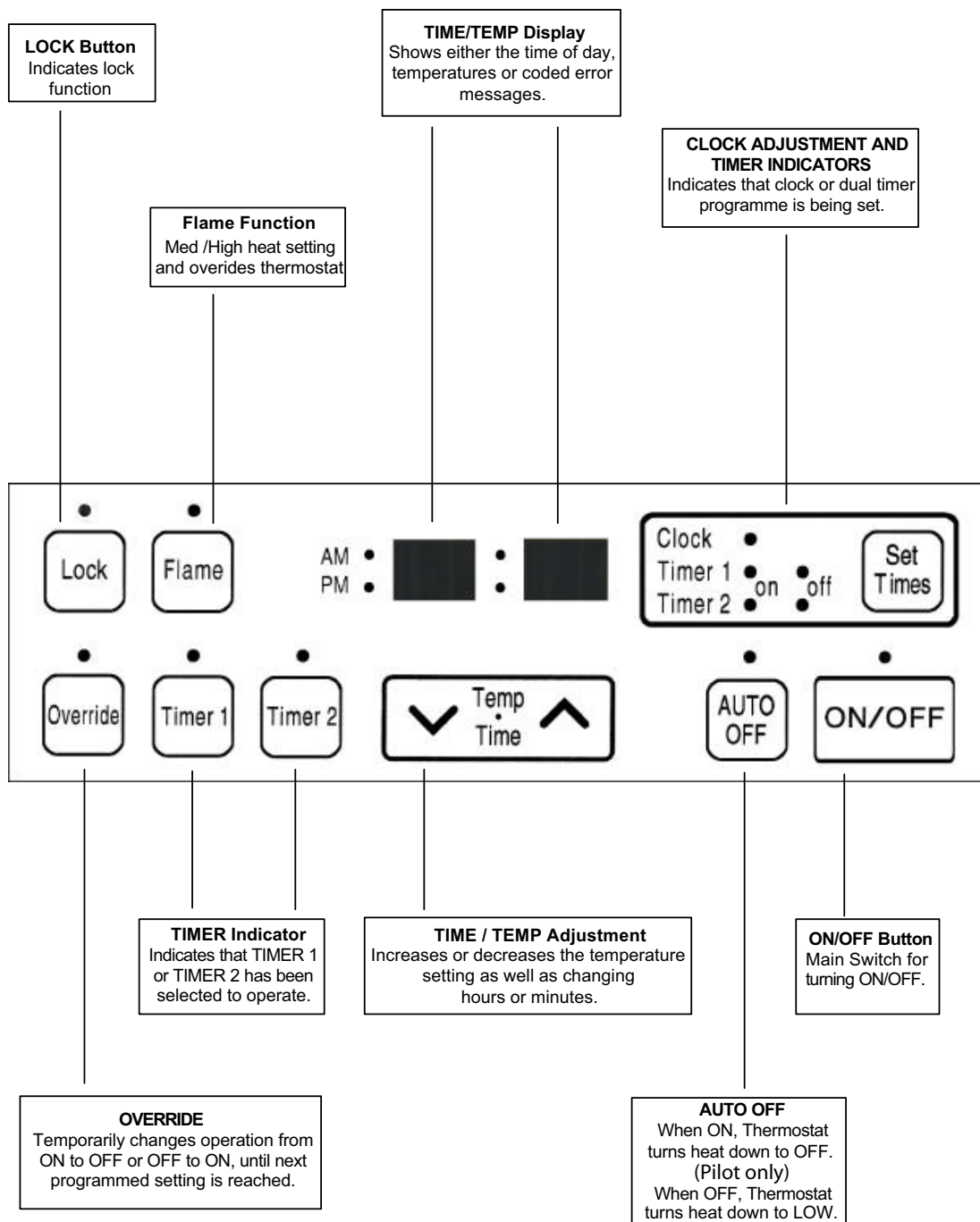
INSTALLATION AND SERVICE MUST BE PERFORMED BY AN AUTHORISED PERSON.

This manual applies to the IB35 ETR only:
Inbuilt Royale ETR - NG/LPG

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CUSTOMER INFORMATION - CONTROL PANEL



CUSTOMER INFORMATION - ABOUT

INSTALLATION REQUIREMENTS

This heater must be installed by an authorised person. The installation must conform to local regulations.

The installation must also comply with the instructions supplied by Rinnai.

Service and removal must be carried out by an authorised person.

CERTIFICATION

The Rinnai IB35ETR / FS35ETR heaters have been certified by the Australian Gas Association.

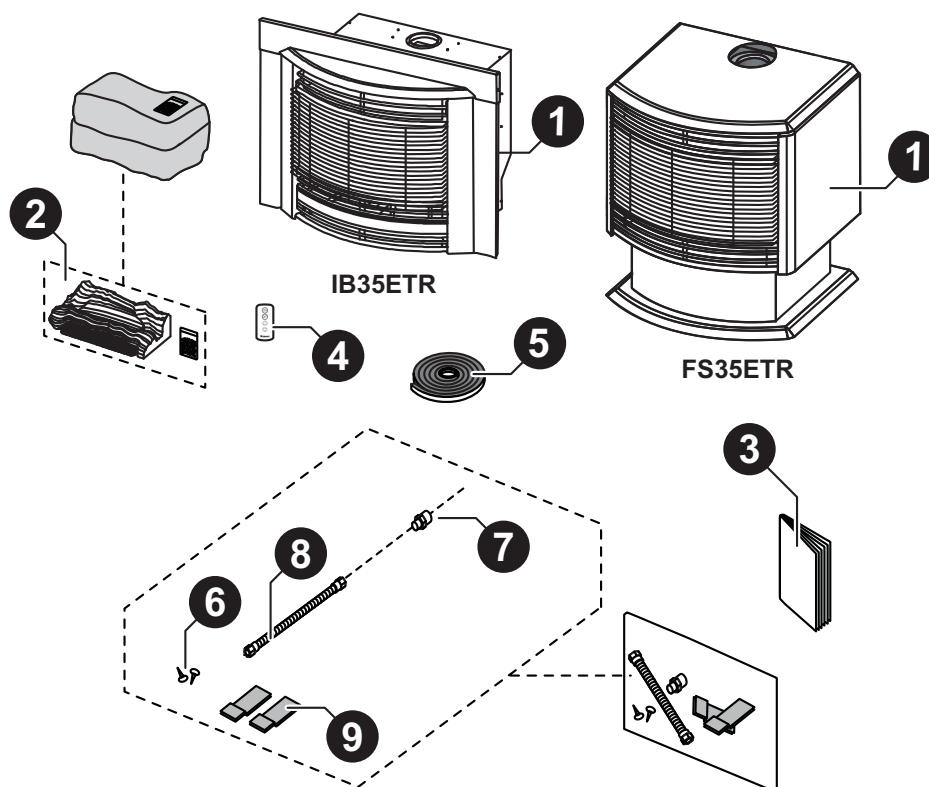
The AGA Certification Number is shown on the appliance dataplate.

No parts or functions should be modified or permanently removed from the heater.

Please keep this information in a safe place for future reference.

CARTON CONTENTS / ITEM CHECKLIST

The components for IB35ETR / FS35ETR heaters are supplied in one carton, the following tables lists the components that are in this carton. Ensure that the components listed for the installation method being installed are present before proceeding with the installation.



Component Descriptions		IB35ETR	FS35ETR
1	Rinnai IB35ETR or FS35ETR Engine.	●	●
2	Artificial log set / burn media, Satchel burner granules (packed inside of the engine).	●	●
3	Operation and Installation manual.	●	●
4	Remote Control	●	●
5	Adhesive backed foam sealing strip 19mm x12mm (2m).	●	
6	Screw 8G x 3/8" Black (x2)	●	
7	Reducing Flare 3/8" x1/2"	●	
8	Flexi Tube 3/8"	●	
9	Wall mounting bracket (x2)	●	

• Dot denotes which items are supplied with which heater type.

CUSTOMER INFORMATION - OPERATION

IMPORTANT: You must read and understand these instructions fully before operating the heater.

- **To Open the Control Panel**

Lift lightly in the centre of the lid. The control panel lid will then open backward to an angle.

- **To turn the unit 'ON'**

Press the ON/OFF button to operate the heater. The ON indicator will glow green. The spark generator will be heard before the burner ignites and the ON indicator glows red, indicating that the heater is alight.

When the heater warms up, the fan will automatically start.

Note: Initially at turning 'ON' only the front and middle burner, low, will ignite. After 8 minutes middle burner, high and rear burner, high will ignite. This will occur each time the appliance is switched on.

If the heater does not ignite on initial use, this may be due to air remaining in the gas supply line. The spark generator will only continue for 15 seconds. After this it will be necessary to press the ON/OFF button OFF, then ON again.

If the appliance fails to ignite after 4 attempts, contact Rinnai as a service call may be required.

- **To turn the unit 'OFF'**

Simply press the ON/OFF button to switch off the heater. The ON indicator light will go out. The Fan will continue to operate for several minutes after the burner has gone out in order to cool the appliance. Do not unplug the appliance while the fan is running.

- **Room Temperature Adjustment**

The room temperature and pre-set temperatures can only be displayed and adjusted when the heater is running.

Press the "▲" button to increase the temperature setting or "▼" button to decrease the temperature setting.

The temperatures can be preset to:

- a) [L] low (about 10°C)
- b) [16°C] to [26°C] in 1°C steps
- c) [H] (continuously high)

When the 'Set' temperature is lower than the current room temperature at time of ignition, only the front burner will ignite on the low setting. If the 'Auto Off' function has been selected, the heater will revert to pilots only operation after a short time period. When ever the pilots are lit the ON indicator will glow red.

- **Lock**

The lock function will help to prevent accidental operation as well as small children from altering

the controls. To operate the lock simply press the LOCK button. The function is activated immediately and the LOCK indicator will glow.

To Deactivate the LOCK simply press the LOCK button for 3 seconds and the LOCK indicator will go out. The LOCK can be deactivated at any time in this way.

During normal operation the LOCK may be activated and all controls, other than the OFF switch, will be locked. Deactivating the LOCK releases the controls. If the LOCK is activated whilst the heater is turned OFF, then all functions will be locked. If the heater is turned OFF while the LOCK is activated, it cannot be turned ON again until the LOCK is deactivated.

- **Flame**

To operate the Flame function, simply press the FLAME button. This function will automatically override the thermostat and set the heater to a default Medium / High heat setting for full visual flame effect.

- **Auto Off**

To operate the AUTO OFF function, simply press the AUTO OFF button.

When the AUTO OFF function is selected, the indicator light will illuminate and the thermostat will turn the burners down to the OFF heat setting when the selected temperature is reached.

When the AUTO OFF function is not selected, the indicator light will go OFF and the thermostat will turn the burners down to the LOW heat setting when the selected temperature is reached.

- **Override**

This function is intended to be used to manually override the current operation of the heater. For example; if the heater is in standby mode (i.e. between finishing time and starting time of a Timer) and the OVERRIDE button is selected, then the heater will begin to operate and heat the room.

To operate the OVERRIDE simply press the OVERRIDE button. The OVERRIDE indicator will flash.

To manually deactivate the OVERRIDE simply press the OVERRIDE button again. The OVERRIDE indicator will go out, and the heater will return to standby mode.

The heater will continue to operate on OVERRIDE until the OVERRIDE button is pressed again, or one of the Timers takes over the operation of the appliance. This means that the OVERRIDE mode will automatically drop out if a programmed starting time is reached.

The appliance will then return to operating at times programmed into the Timer(s).

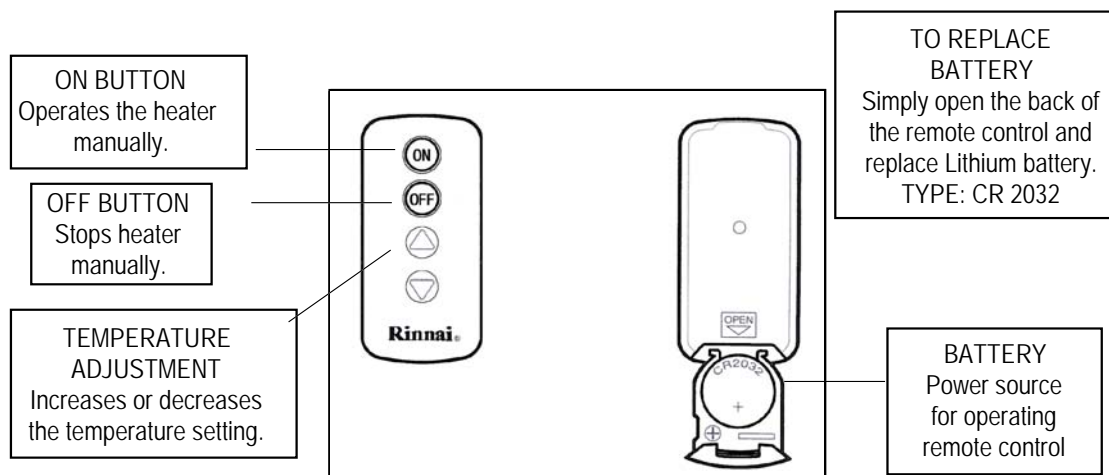
CUSTOMER INFORMATION - OPERATION

Remote Control

The Remote Control will not turn the heater ON if Timer(s) have been selected.

To manually operate when Timer(s) are not selected, simply press the ON or OFF button.

To alter the temperature at anytime while the heater is operating, simply press the \triangle or ∇ button.



Some fluorescent lights may interfere with the transmission of remote control signals, in this case changing the position from which you are operating the remote control may help.

Avoid getting the remote control wet, or dropping it.

The remote control works within 5 metres and at an angle of 40° to the receiver which is located on the lower front edge of the heater.

Only use the battery type specified (CR2032).

Remove the battery if control is not going to be used for a long period. This will help avoid damage from leaking batteries.

If the Timer(s) have been selected, and the heater is in standby mode, and the OFF button on the Remote Control is pressed, the Timer(s) will be deactivated.

CUSTOMER INFORMATION - SETTING THE CLOCK

Setting the Clock

When the appliance is first plugged in or after a power failure, the digital display will show --:--

As an example, let's set the clock to 10:35 am;

Press the SET TIMES button once, the Clock indicator will flash.

Press and hold the "▲" button; the minutes will begin to change first then the time will change by whole hours.

Release the button when AM 10:00 shows on the Digital Display. Confirm that you have selected AM, a small indicator on the left hand side of the Digital Display indicates the AM setting.

Press and hold the "▲" button again, release the button when AM 10:35 shows. If you go past AM 10:35, then the "▼" button can be used to change the time settings in reverse.

Press the Timer Set button five times to lock in and complete setting the time. The Clock and Timer indicators will go out. A small indicator on the Digital Display will flash to show that the Clock is operating.

Programming the ON / OFF Timers

Before programming the Timers you must ensure that the clock has been set to the correct time.

As an example, let's program Timer 1 to heat the room by 7:10 am and finish at 9:00 am.

Press the Set Times button twice. The Digital Display will show AM 6:00. Timer 1 indicator will flash.

Press the "▲" button until AM 7:00 appears, release the button, then press it again until AM 7:10 appears. (Press the "▼" button if you go past AM 9:00).

Press the Set Times button three times to lock in the program time. The Digital Display will show the current time. A small indicator on the Digital Display will flash to show that the display has returned to the clock.

Timer 2 is programmed in the same way, remember to ensure that the Timer 2 indicator is flashing when you program in the desired setting. The Timers can be programmed to operate for any two periods in any 24 hours.

Turn to the next page to operate the dual timer. The programmed time must be selected and locked-in within one minute of the On Timer indicators flashing otherwise the programmed times will not be retained in the system memory.

OPERATING THE TIMERS

Operating the Timers

Before operating the Timer(s), the clock time must be correct and a starting time and finishing time for the Timer(s) must be programmed. See page 5. The two Timers operate in the same way. This heater does not commence operation at the programmed starting time. It will attempt to heat a room by the programmed starting time. See Pre-heat, for further explanation.

To select the Timer(s) to commence heating.

Check the time shown on the Digital Display is correct.

Check the ON and OFF times, for both Timers if necessary.

Press the ON/OFF button to operate the heater. The ON indicator will glow green and the heater will begin to operate.

Select the desired temperature setting.

Press the Timer 1 and/or Timer 2 button(s). The timer indicator(s) will glow and the heater will remain on standby until one hour prior to the time programmed into the selected Timer(s) is reached. When this time is reached, the Timer indicator will flash and the heater will operate. The ON indicator glows red when the heater commences operation. Actual start time will depend on temperature selected and current room temperature. (see pre-heat for further details).

Set and Forget Operation

Your heater can be operated to alternate between Timers automatically during cold weather by selecting Timer 1 and Timer 2 together. Both Timer indicators will glow. The appliance will remain on standby at intervals between the programmed finishing and starting times of each Timer. While the heater is operating during programmed intervals the Timer indicator will flash.

If there is a power failure, the system memory will retain the Timer programs, and the clock will stop at the time the power goes off. The clock will start again when the power comes back on, but the time will be slow by the duration of the power failure. To set the clock to the correct time after the power has come back on, simply follow the instructions on page 4.

Preheat

This function operates automatically in conjunction with either of the timers. When a timer is selected, the heater may operate anywhere within an hour prior to the programmed starting time of the timer.

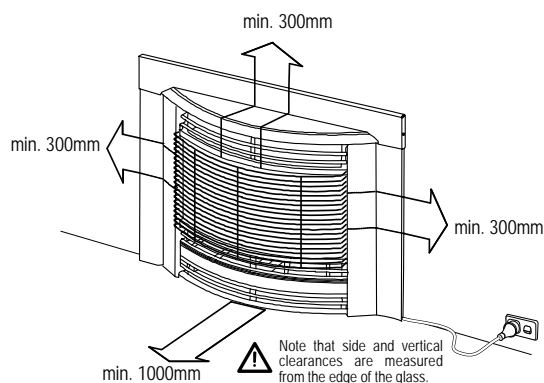
The preheat function will attempt to preheat the room by the programmed ON time

This function is called pre-heat due to the way it operates. The room temperature is sensed one hour before reaching the programmed time of either timer.

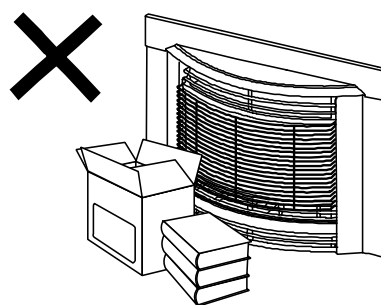
The temperature differential at the time of sensing the room governs how long before the program ON time the microcomputer will operate the heater and ignite the burner.

CUSTOMER INFORMATION - SAFETY POINTS

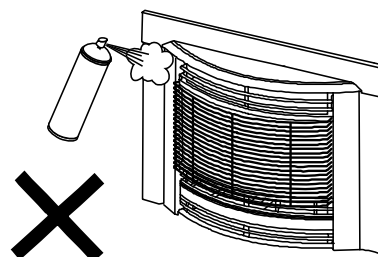
Clearances must be maintained.



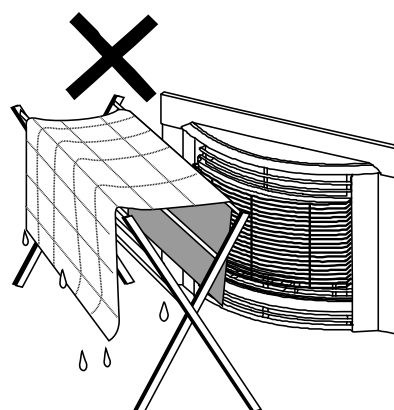
Do not restrict the warm air discharge by placing articles in front of the heater.



Do not spray aerosols whilst the heater is operating. Most aerosols contain butane gas, which can be a fire hazard if used near the heater when it is in use.

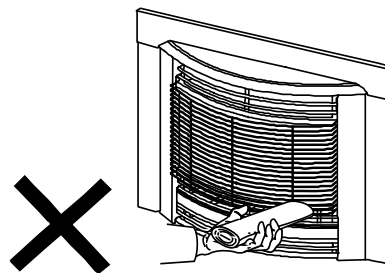


This appliance must not be used for any purpose other than heating.

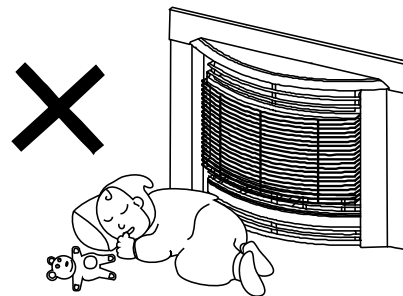


CUSTOMER INFORMATION - SAFETY POINTS

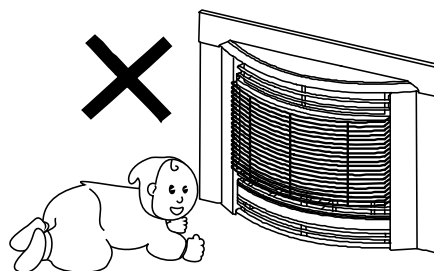
Do not allow anyone to post articles through the louvres.



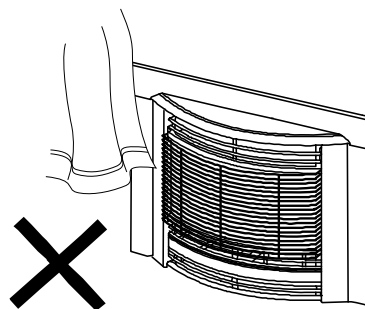
Do not allow young children or the infirm to sleep directly in front of the heater.



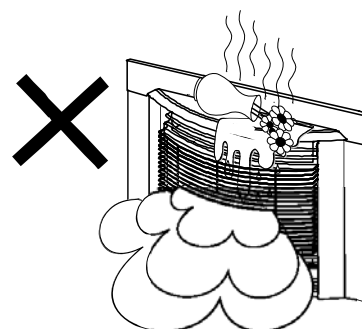
Young children should be supervised at all times. Hand or body contact with the louvres must be avoided.



Do not allow curtains or other flammable or combustible materials to come into contact with the heater.

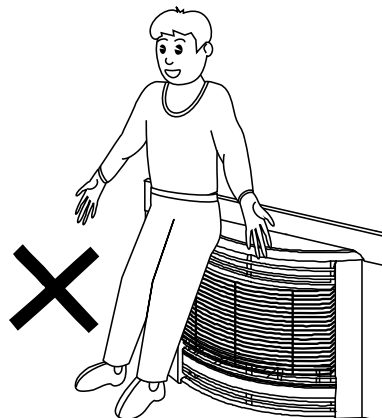


Do not place containers of liquid on top of the heater. Liquid spillage can cause extensive damage to the appliance.

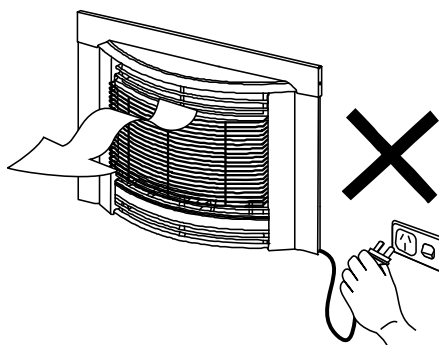


CUSTOMER INFORMATION - SAFETY POINTS

Do not allow anyone to sit on or lean against the appliance.



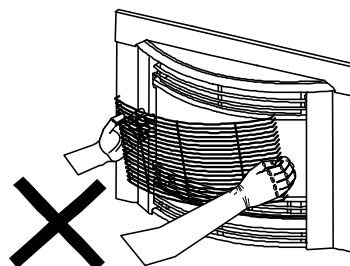
Do not unplug the heater while it is in operation or while the fans are still cycling.
Do not turn the heater off by unplugging it from the wall.



Do not remove the Dress Guard.

The dress guard is fitted to this appliance to reduce the risk of fire or injury from burns and no part of it should be permanently removed.

For protection of children or the infirm, a secondary guard is recommended.



DO NOT CONNECT TO AN LPG GAS CYLINDER INDOORS.

DO NOT PLACE ARTICLES ON OR AGAINST THIS APPLIANCE.

DO NOT USE OR STORE FLAMMABLE MATERIALS NEAR THIS APPLIANCE.

DO NOT SPRAY AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHILE IT IS IN OPERATION.

CUSTOMER INFORMATION - ERROR CODES

ERROR CODE MESSAGE

The Flame Fire ETR has the ability to check its own operation continuously. If a fault occurs, an Error Message will flash on the Digital Display of the control panel. This assists with diagnosing the fault, and may enable you to overcome a problem without a service call. Please quote the code displayed when enquiring about service.

Error Code	Probable Cause	Comments
11	<ul style="list-style-type: none"> Ignition Failure 	<ul style="list-style-type: none"> Check gas is turned on. Service call if repeated
12	<ul style="list-style-type: none"> Flame Failure 	<ul style="list-style-type: none"> Check gas is turned on. Service call if repeated
14	<ul style="list-style-type: none"> Overheat 	<ul style="list-style-type: none"> Service call
16	<ul style="list-style-type: none"> Room Overheat 	<ul style="list-style-type: none"> Lower room temperature to less than 40°C.
31	<ul style="list-style-type: none"> Room temperature Sensor Faulty 	<ul style="list-style-type: none"> Service call
32	<ul style="list-style-type: none"> Room temperature 	<ul style="list-style-type: none"> Service call
33	<ul style="list-style-type: none"> Overheat temperature Sensor faulty 	<ul style="list-style-type: none"> Service call
70	<ul style="list-style-type: none"> Faulty ON / OFF switch 	<ul style="list-style-type: none"> Service call .
71	<ul style="list-style-type: none"> Faulty Solenoids 	<ul style="list-style-type: none"> Service call
72	<ul style="list-style-type: none"> Faulty Flame Rod 	<ul style="list-style-type: none"> Service call
73	<ul style="list-style-type: none"> Communication error 	<ul style="list-style-type: none"> Turn heater OFF, then ON again
99	<ul style="list-style-type: none"> Flue Block 	<ul style="list-style-type: none"> Service call
--:--	<ul style="list-style-type: none"> Power Failure 	<ul style="list-style-type: none"> Turn heater OFF, then ON again

In all cases, you may be able to clear the Error Message simply by turning the heater OFF, then ON again. If the Error Message still remains or returns on the next operation, please contact your nearest service contact and arrange for a service call.

CUSTOMER INFORMATION - TROUBLE SHOOTING

SYMPTOM	POSSIBLE CAUSES	SOLUTION
Burner will not light	<ul style="list-style-type: none"> No power present No gas present Power cut Air in gas supply pipe Ignition failure 	<ul style="list-style-type: none"> Ensure power cord is plugged in and turned on. Ensure gas supply is turned on. Re-ignite when power is restored. Purge air (installer). Repeat lighting procedure (refer operating instructions page 2).
Smell of gas	<ul style="list-style-type: none"> Leaking gas 	<ul style="list-style-type: none"> Turn off gas at meter and call installer.
Fan not working	<ul style="list-style-type: none"> No power supply to fan Faulty fan 	<ul style="list-style-type: none"> Call Rinnai Service Dept. / Agent.
Small soot deposit	<ul style="list-style-type: none"> Normal operation 	<ul style="list-style-type: none"> No action required.
Severe soot deposits forming on Glass or Logs	<ul style="list-style-type: none"> Inadequate flue system Incorrect gas pressure Log misalignment 	<ul style="list-style-type: none"> Call Rinnai Service Dept. / Agent.
Condensation on glass	<ul style="list-style-type: none"> Normal operation 	<ul style="list-style-type: none"> Allow heater to warm up.
Streaky lines on glass	<ul style="list-style-type: none"> Normal operation 	<ul style="list-style-type: none"> For cleaning call Rinnai Service Department / Agent.
Digital Error Message on Control Panel	<ul style="list-style-type: none"> Electronic fault detected 	<ul style="list-style-type: none"> See Error Message page 9.

• NOTE:

If you have any other faults or problems, please refer to your installer or a Rinnai Customer Care Centre Consultant on 1300 555 545.

• IMPORTANT:

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

• SERVICE:

Rinnai has a service and spare parts network with personnel who are fully trained and equipped to give the best service on your Rinnai appliance.

If your appliance needs service, please ring one of the service contact numbers located on the back of this instruction booklet.

Rinnai recommends that this appliance should be serviced annually by a qualified service technician, including inspection of the flue system.

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CUSTOMER INFORMATION - IMPORTANT POINTS

Unpack the heater and check for damage. **DO NOT INSTALL DAMAGED HEATER.** If the heater is damaged, contact your supplier for advice. Before installing the heater, check the label for the correct gas type (see rating plate, front right hand side of bottom panel). Refer to local gas authority for confirmation of the gas type if you are in doubt.

Included in the carton

Customer operation information, roll of sealing foam, ceramic log set and granules.

Before installing this product, please read this manual carefully.

IMPORTANT POINTS

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

1. The appliance must be installed in accordance with the local gas and electrical authority regulations.
2. For information on gas consumption, see data plate on the appliance.
3. Ensure that the area in which the appliance is installed has adequate fixed ventilation, this fixed ventilation must be provided as per AS/NZS 5601 Clause 5.4 to 5.4.5.
4. DO NOT connect to an LPG Gas cylinder indoors.
5. This appliance must not be installed where curtains or other combustible materials could come into contact with it. In some cases curtains may need restraining.
6. This appliance is not designed to be built directly into a combustible opening.
7. Heater must not be located below a power socket-outlet.
8. The local gas and electrical authorities will be able to advise on local regulations.
9. Heat emanating from the front of this appliance may over time affect the appearance of some materials used for flooring such as carpet, vinyl, cork or timber. This effect may be amplified if the air in the room contains cooking vapours or cigarette smoke. To avoid this possibility, it is recommended that a mat be placed in front of this appliance, extending at least 750 mm in front of it.
10. The appliance is not intended for use by young children or infirm persons without supervision.
11. Young children should be supervised to ensure they do not play with the appliance.
12. If the supply cord, gas hose or glass are damaged or require replacing, they must be replaced by the manufacturer or the manufacturers agent or similarly qualified person in order to avoid a hazard.
13. Do not allow articles to be posted through the louvres or openings.
14. Do not spray aerosols near this heater whilst it is in use. Most aerosols contain butane gas which can be a fire hazard if used near this heater when in use. Use of aerosols, paint, polishes etc whilst this heater is in use may cause unpleasant smells.
15. Do not operate/install this heater in places where painting is taking place, or in places such as hair dressing salons, where there may be a lot of fluff and dust, and where aerosols are used.
16. Do not unplug the heater while it is still in operation or the fan is operating.
17. Do not turn off heater by unplugging it at the wall.
18. Do not place articles on or against this appliance.
19. Do not place clothes racks etc. directly in front of the heater.
20. Do not store flammable materials near the heater. Combustible materials must not be allowed where the heater could ignite them.
21. The heater may emit smoke when first started which may take up to 2 Hours to disappear. This is part of the burning in process and normal, ensure adequate ventilation during this period.
22. The guard is fitted to this appliance to reduce the risk of fire or injury from burns and no part of it should be permanently removed, for protection of young children or the infirm, this secondary guard is required.

CUSTOMER INFORMATION - SPECIFICATIONS

Model:	IB35ETRN (NG) IB35ETRL (Propane)
Description:	Rinnai Inbuilt Radiant/Convactor, glass fronted, ceramic log space heater with forced convection & natural draft flue system.
Output:	33 MJ/hr Natural Gas and Propane.
Gas Control:	Rinnai Electronic Control Valve
Burners:	Ceramic Logs, Ember bed and Heat burner
Gas Inlet:	15 mm. Copper Flare Connection.
Test Point Pressure:	Natural Gas 0.95 kPa; Propane: 2.00 kPa.
Flue:	Natural Draught
Flue Termination:	In fireplace not applicable. When fitted with Flue Kit (Zero Clearance Box). Fig. 5.3 of AS/NZS 5601.
Ignition:	Electronic spark
Power Supply:	240 V 50 Hz unit is supplied with 3 pin plug and supply lead, replace only with Rinnai P/N. 90179599 (Aust). 6765B (NZ).
Fan:	Tangential 2 speed, Watt Rating 90W.
Rating Plate location:	Bottom panel, front right hand side
Weight:	54 Kgs.

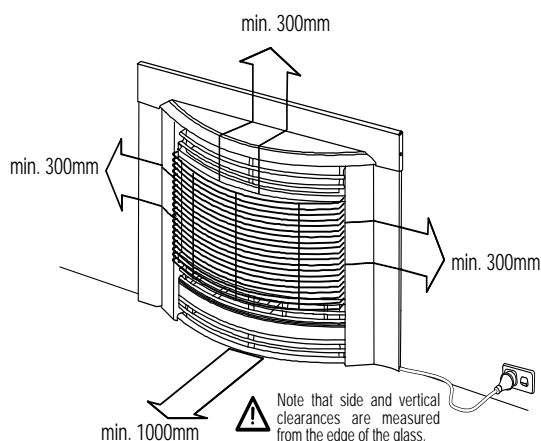
INSTALLERS INFORMATION - LOCATION

The following pages contain information relating to Installation and Service. 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 AS/NZS 5601. Only Rinnai flue components can be used.
2. Warm air distribution.
3. Ensuring that the area in which the appliance is installed has adequate fixed ventilation, this fixed ventilation must be provided as per AS/NZS 5601.
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 diagram below for minimum clearances required.

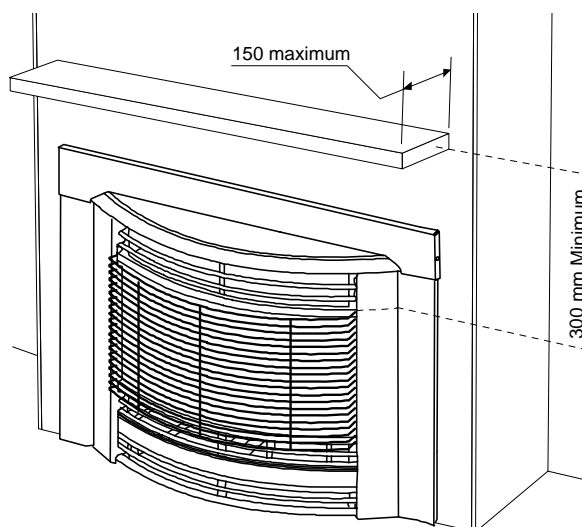


5. The heater is not designed to be built into bookcases or shelves. For combustible opening installations a Rinnai zero clearance kit must be used and is available from your gas appliance retailer.
6. This heater must be mounted on a hearth not less than 50mm thick and at least the width and depth of the heater. The hearth surface must be flat and level to support the entire heater or zero clearance box. If the heater or zero clearance box base are not properly supported noise and vibration may result.
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 opening.

• Mantles

A mantle is permitted providing the clearances below are met.



10. Check that room ventilation complies with local regulations.
11. This 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. Rinnai recommend the heater 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). Alternatively - unit can be direct wired if the power supply is to be concealed.



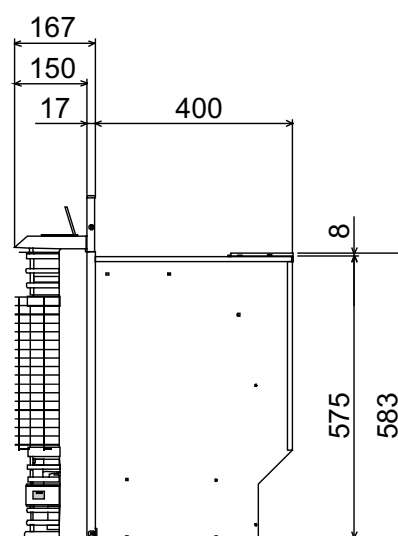
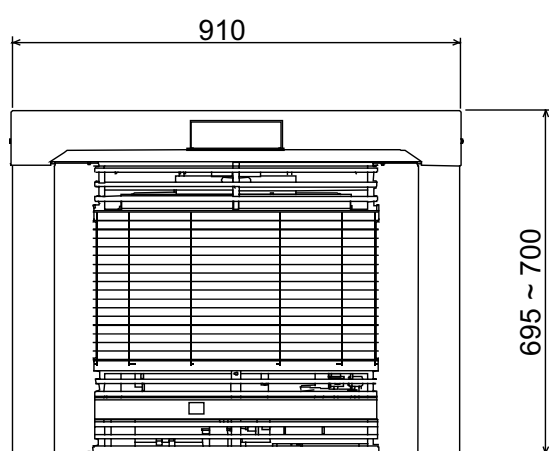
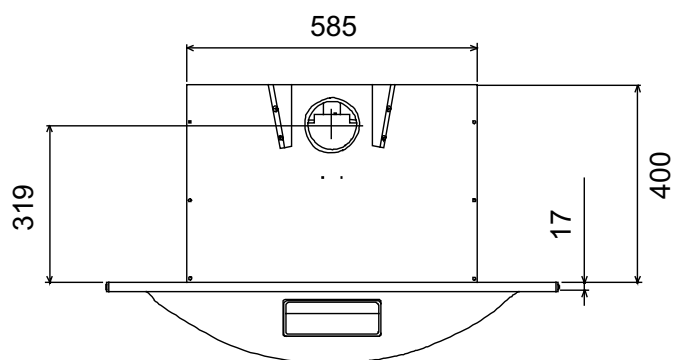
Consult a qualified electrician if direct wiring is required as it must comply to AS/NZS 5601 and AS3000.

TECHNICAL SPECIFICATION

Model:	Inbuilt Royale - ETR Flame Fire IB35ETR		
Description:	Rinnai ETR Inbuilt Radiant/Convactor, glass fronted, ceramic log space heater with forced convection and natural draught flue system		
Gas input rate:		Natural Gas	Propane
	Pilot and 'Low':	8 MJ/hr	8 MJ/hr
	Medium:	25 MJ/hr	25 MJ/hr
	High:	33 MJ/hr	33 MJ/hr
Gas Control:	Rinnai electronic control		
Burners	Ember bed and flame burner		
Test Point Pressure:		0.95 kPa	2.00 kPa
Gas Connection:	1/2" compression flare		
Flue terminal:	The flue must terminate to atmosphere vertically above the roof in line to comply to AS/NZS 5601. Rinnai Appliance warranty conditions will be voided if non Rinnai Flue components are fitted. Rinnai are <u>NOT CERTIFIED</u> for use with non Rinnai Flueing components.		
Fan:	Tangential 2 speed, power rating 47 Watts		
Combustion system	Multi port burner		
Logs:	Ceramic		
Ignition system:	Continuous spark electronic ignition		
Operation:	Push button to light pilot and burners		
Safety Devices:	Touch pad control. Thermostatically controlled to light pilot and burners. Able to select the following features: - Timer - Auto Off function - Flame function - Child lock		
Combustion method:	Naturally aspirated burner		
Installation type:	Inbuilt only		
Weight:	54 Kgs.		
Flue requirement:	A Rinnai approved flue system is mandatory for this appliance, to be installed in accordance with AS/NZS 5601.		

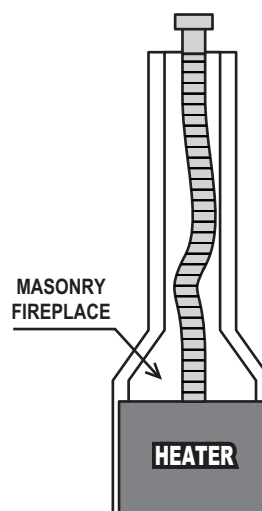
The manufacturer reserves the right to change or modify specifications without notice.

INSTALLERS INFORMATION - DIMENSIONS



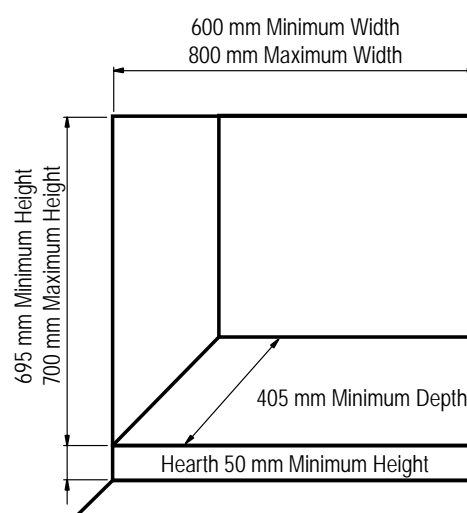
INSTALLATION INTO MASONRY FIREPLACE & CHIMNEY

A Rinnai Flexible Flue Liner Kit (Flexliner01) is **mandatory** in all masonry fireplace and chimney installations.



1. Check Dimensions of Fireplace

- Check dimensions of fireplace and if necessary bring them to the dimensions shown.
- If the fireplace opening is larger than the heater, a 100mm wide decorative surround Part no. for the External top panel FLFRSEXT (Black only) and these panels are available from your local gas appliance retailer.



2. Check conditions of fireplace/chimney

The chimney must be physically checked first and must meet the following set criteria along with local regulations. Failure to meet these criteria will not only void the product warranty but may affect the performance of the product.

- All loose/broken bricks must be replaced or repaired ensuring the chimney is of sound construction and does not leak.
- Any under floor air supply to the fireplace must be completely sealed off to prevent secondary air draw.
- Total flue length **MUST NOT** be less than 3 metres and flue cowl must terminate above the chimney in accordance with AS/NZS 5601.
- The chimney must be swept clean and be free of soot and creosote that may have built up if previously used for a solid fuel fire.
- The hearth surface must be flat and level to support the entire heater. If the heater is not properly supported noise and vibration may result.

3. Install Flue

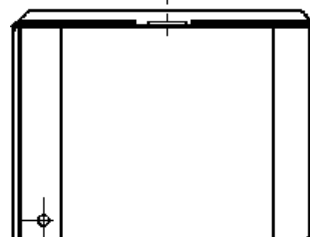
For installations into a masonry fireplace a Rinnai Flexible Flue system is required. (Flexliner01). Rinnai rigid flame fire flueing is not suitable. Assemble flue in accordance with the instructions supplied with the flue kit. At this point do not connect the flue spigot to the heater.

INSTALLATION INTO MASONRY FIREPLACE & CHIMNEY

4. Apply sealing strips to back of heater

- Peel protective backing off the foam strips supplied with the Heater.
- Attach strips to rear of casing as shown. The strip is intended to form a seal between the heater and the fireplace.
- If an adequate seal cannot be formed with this strip an other means of sealing must be used. (eg.non combustible insulation), between the fireplace and the heater body.

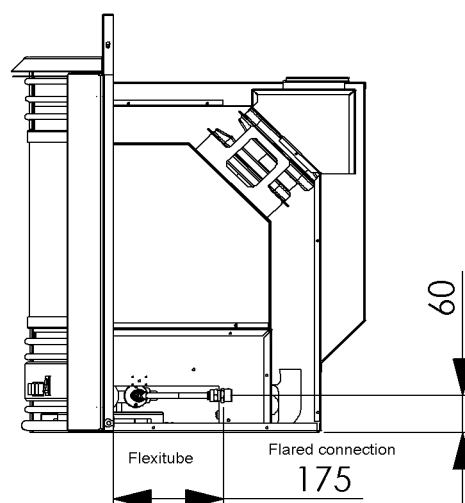
SEALING STRIPS



Rear View

5. Run Gas Supply

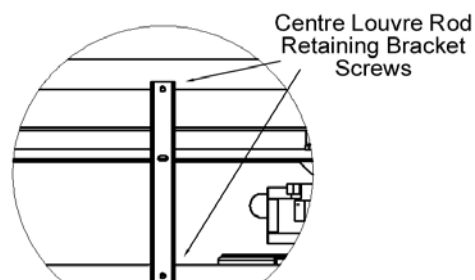
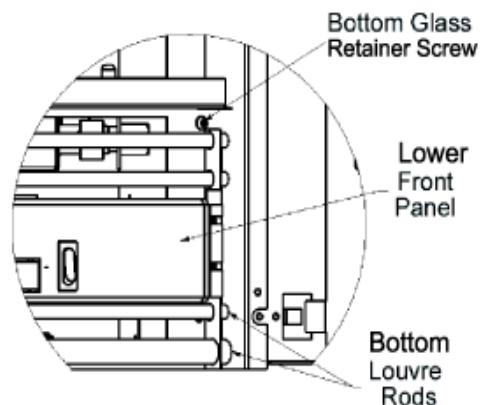
- For pipe sizing refer to your local gas installation codes.
- Copper supply should be run leaving a 1/2" flared connection at the position shown.
- Attach the stainless steel flexitube supplied to the flare connection.



6. Install decorative surround to the face of the fireplace (Part No. SFFRB) If required.

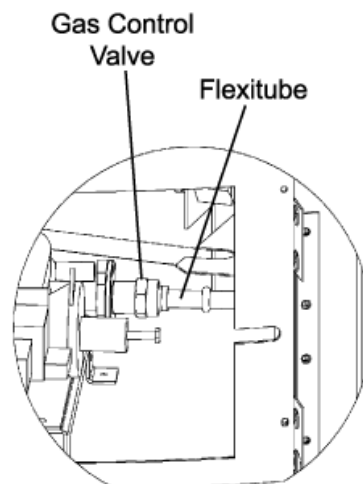
Preparation for Heater installation

1. Open both side panels.
2. Remove two screws on both sides of the top glass retainer, lift retainer and remove from heater.
3. Loosen screws on bottom glass retainer.
4. Carefully lift glass out of bottom channel.
5. Carefully remove log packaging (Refer to page 24 for log installation).
6. Remove the front and middle burners by undoing the left hand end screws. Slide the burners to the left, and lift out (Caution: Do not misplace the aeration sleeve from the burner venturi).
7. Slide out and remove the bottom louvre rods, which are held in place by tension.
8. Remove the screws from both ends of the lower front panel (Caution: 240V switch attached to panel).
9. Remove the top and bottom screws from the centre louvre rod-retaining bracket.



INSTALLATION INTO MASONRY FIREPLACE & CHIMNEY

10. Slide out the fan partition tray exposing the gas control and flare connection.
11. Slide the heater carefully into position, while feeding the stainless steel flexi-tube through the gas supply access opening at right hand rear.
12. Bend the flexi-tube and connect to the gas control valve. Note: All foreign materials such as filings and swarf must be purged from the gas supply before connection as they may damage the gas controls.
13. Attach flue pipe to heater flue spigot in accordance with Flexible Flueing instructions.
14. Seal and secure the heater to the fireplace. There are pre-drilled holes in the heater surround behind the doors. Drill additional holes if the existing ones are not in suitable positions.



NOTE: on completion of work a gas leak test must be carried out.

Use a soapy solution on all gas connections. Leaks will be visible when the soapy solution forms bubbles.

When finished wipe soapy solution with a rag to remove residue.

- 7. Log Installation** - for Log installation details, please refer to page 24.

Replace and refit all parts that have been removed in reverse order.

- 8. Commissioning** - for Commissioning details, please refer to page 27.

INSTALLATION IN TO A COMBUSTIBLE OPENING

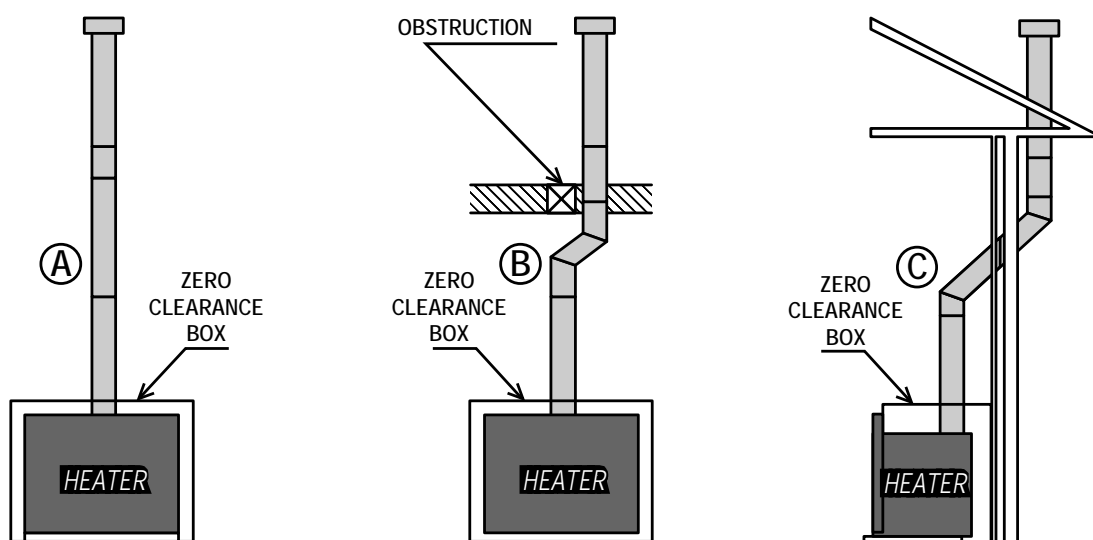
Rinnai understands that not all households have an existing masonry fireplace. Rinnai offers the option of installing the Flame Fire Royale into a decorative fireplace for either a single storey or two storey home. All you need is a flat wall which can be either external or internal and a zero clearance box. A Rinnai Rigid flue MUST also be installed (Part No. FLFKIT05 / FLFTWKIT). Flexible flue kits are not suitable.

The Zero clearance box can be installed hard against the combustible timber framework of the mock fireplace due to the air gap created beneath the appliance with the use of the plinth panel, and the air gap between the outer panel of the Flame fire and the Rinnai Zero clearance box. (Part No. ZEROR). Only this Zero Clearance Box must be used for these installations.

Rinnai Flame Fire Rigid Flueing allows the air to be drawn in through the louvres in the plinth panel, pass around the sides and back of the Flame fire heater and be drawn away through the outer skin of the flue. The resulting air flow will keep the Zero clearance box panels at a safe operating temperature.

Refer to Rinnai Flueing Installation Manual for Rinnai Flame Fire Heaters.

Available flueing options as follows:



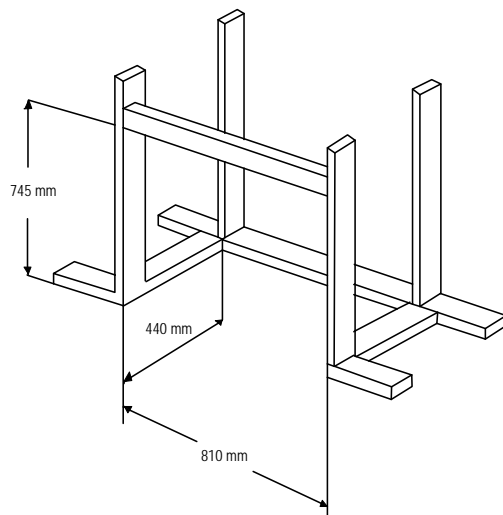
INSTALLATION IN TO A COMBUSTIBLE OPENING

Steps for Installation:

1. Determine the preferred location of the heater.
 - Check roof space for any flue obstructions.



2. Construct frame in accordance with the dimensions shown:



3. Install Rinnai Zero Clearance Box (ZEROR)

- 'Zero clearance' means the panels of metal from the zero clearance box can be in contact with any combustible material.
- The hearth surface must be flat and level to support the zero clearance box.
If the zero clearance box base is not properly supported noise and vibration may result.

Kit contains:

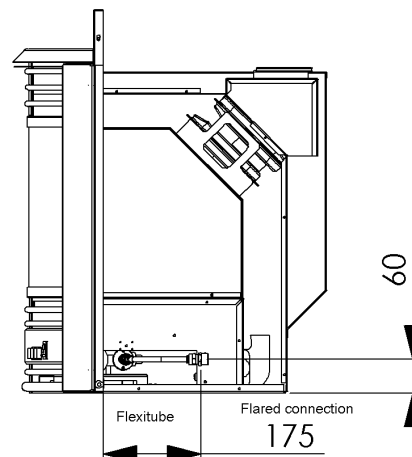
- Zero Box
- Supporting Plinth
- Complete decorative Surround
- Installation Instructions



INSTALLATION IN TO A COMBUSTIBLE OPENING

4. 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. Attach the stainless steel flexitube supplied to the flared connection.



5. Install Rinnai Flame Fire Rigid Flueing as per the instructions supplied with the flue kit, taking careful note of the following:

Flue termination above the roof must comply with AS/NZS 5601.

Vertical flue length must be no less than 3.0 metres.

The inner and outer flues must be supported independently of the heater to comply with AS/NZS 5601



6. Apply plaster and paint.



7. Assemble the plinth and base supports.

Slide the plinth and base supports and heater into the zero clearance box, making sure the plinth is located correctly between the heater and the zero clearance box.

8. Slide the slip socket onto the inner flue spigot of the heater and tighten to seal. Refer flueing instructions for details.

9. Attach gas supply.

Note: All foreign materials such as filings must be purged from the gas supply, before connection as they may damage the gas controls.

Note: on completion of work a gas leak test must be carried out.

Use a soapy solution on all gas connections. Leaks will be visible when the soapy solution forms bubbles.

When finished wipe soapy solution with a rag to remove residue.

INSTALLATION IN TO A COMBUSTIBLE OPENING

10. Install top decorative surround to face of fireplace.



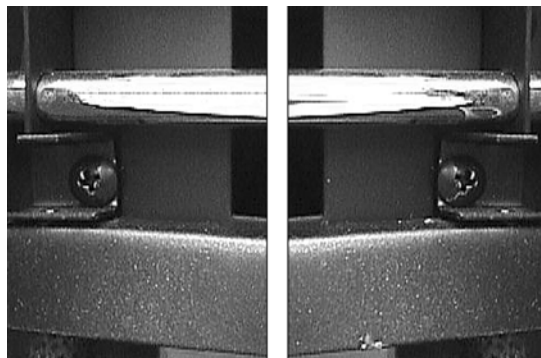
11. **Log Installation** - for log installation details, please refer to page 24.

12. **Commissioning** - for Commissioning details, please refer to page 27.

INSTALLERS INFORMATION - LOG INSTALLATION

1. The log set is packed inside the heater and the packaging must be removed prior to installing the log set in its correct position

- Open both side panels.
- Remove fastenings on both sides of the top glass retainer.
- Lift retainer away from heater.
- Loosen screws on bottom glass retainer.
- Carefully lift glass out of bottom channel.
- Carefully remove log packaging.



The log set is supplied in one piece with two holes underneath for location onto the pins inside the heater.

2. Place the log set into the heater ensuring that the locating pins enter the two locating holes on the bottom face of the logset, if not already attached.



3. Gently place loose ember bed material in front of the Front Log. Do not pour as dust particles from the plastic bag as it may block the burner ports.

Level it with a pencil or screw driver and remove excess material. Note: The ember bed material must be placed **after** the logs are fitted. If the logs are to be removed for any reason, the ember bed material must be removed first and replaced after the logs are refitted. Any material that prevents the logs sitting flat on the burner top can upset the burning pattern and performance of the heater.



4.

- Replace glass and top glass retainer, tighten bottom glass retainer screws.
- Note: Fit glass so that the join/gap in the glass seal is at the bottom.
- Take care not to damage seals.
- Reinstall side panels.

Note: When first lighting the heater, the logs need to be burnt in, which may take approximately 2 hours. The flame colour may change after the initial burning in period.

1. To check burner pressure



- Turn OFF and disconnect the 240V power supply connection.
- Turn ON Gas supply.
- Refer to Data Plate or the Technical Specification section in this manual for burner pressures.
- Open right hand side front cover panel (Remove 1-screw located under the front of the panel).
- Remove 240V electrical cover.
- Remove test point screw and attach manometer to test point, the test point is on the lower right hand side of the valve assembly.
- Connect the 240V power supply. Caution with the electrical panel open 240V terminals will be exposed.
- Light heater, turn to High heat setting, wait 8 minutes and check pressure.
- If adjustments are necessary, the regulator is situated on the lower right hand corner and should be set to the pressures on the data-plate.
- Disconnect the 240V power supply.
- Remove manometer and replace test point screw, check for gas escapes at test point screw.
- Replace electrical cover and secure side panel.
- Reconnect the power supply.
- Turn the heater on and off a few times to check ignition.
- All burner aerations are factory preset and cannot be adjusted.

- If you are unable to get the unit to operate correctly, refer to Trouble Shooting on page 10 before contacting your local service contacts listed on the back page of this booklet.
- It may take approximately 2 hours of operation for the logs to achieve their full flame pattern and glow.

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. Refer to AS/NZS 5601.

2. Commissioning

Installation and Commissioning Checklist

Complete the Installation Checklist and the Installer details on page 27 and make sure that this instruction book is left with the customer.

Instruct Customer

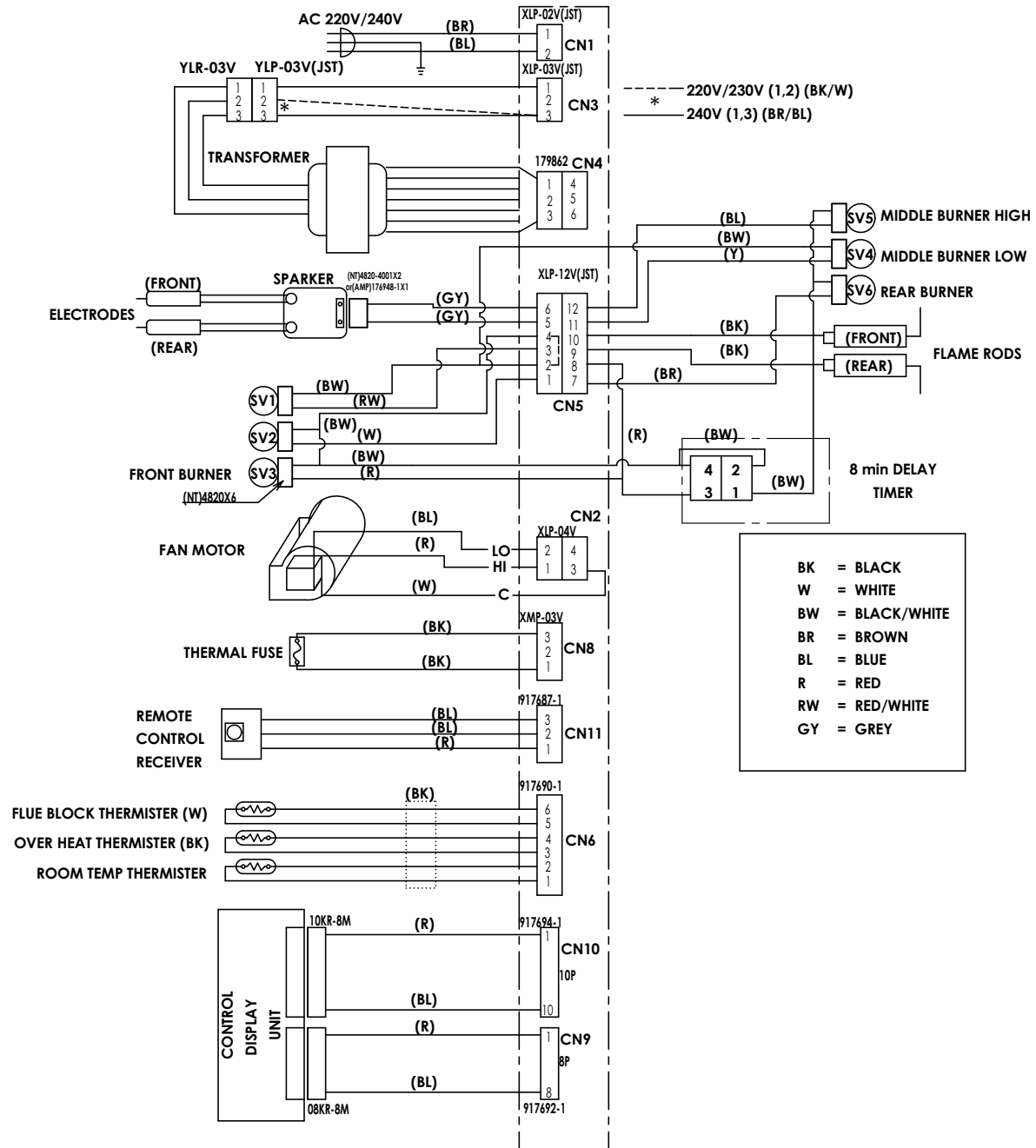
Make sure the customer understands the instructions and the operation of the appliance.

Advise that :

- **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.**
- **For protection of young children or the infirm, a secondary guard is recommended.**
- **This appliance is designed to operate with luminous flames and may exhibit slight carbon deposits.**
- **During the initial burning in period, (approx. 2 hours) some smoke and smell may be experienced during this period, the heater should be run on the High position in a well ventilated room.**

INSTALLERS INFORMATION - WIRING DIAGRAM

WIRING DIAGRAM ETR WITH DELAY CIRCUIT



If the supply cord is damaged or requires replacing, it must be replaced by the manufacturer or the manufacturers agent or similarly qualified person in order to avoid a hazard. The supply cord must only be replaced with a genuine Rinnai spare part. (Part No. 90182065)

INSTALLATION / COMMISSIONING CHECKLIST

(To be completed by certified Gas Installer)

	<u>NO</u>	<u>YES</u>
Model: _____	<input type="checkbox"/>	<input type="checkbox"/>
1. Was a fireplace inspection carried out? (i.e. clearances, combustibles etc).	<input type="checkbox"/>	<input type="checkbox"/>
2. Was a Rinnai flue system installed in accordance with the instructions?	<input type="checkbox"/>	<input type="checkbox"/>
3. Have specified gas pressures been checked and set?	<input type="checkbox"/>	<input type="checkbox"/>
4. Are decorative logs located correctly?	<input type="checkbox"/>	<input type="checkbox"/>
5. Have ember granules been placed and free of dust and powder?	<input type="checkbox"/>	<input type="checkbox"/>
6. Has the appliance been test fired for correct operation? (All Burners light without delay)	<input type="checkbox"/>	<input type="checkbox"/>
7. Is the end-user fully aware of operating procedure?	<input type="checkbox"/>	<input type="checkbox"/>
8. Is the hearth surface flat and level to support the entire heater or zero clearance box?	<input type="checkbox"/>	<input type="checkbox"/>

INSTALLERS / GAS FITTER DETAILS

Company name: _____

Installers name: _____

Address: _____

Phone: _____ Mobile: _____

Certificate of Compliance / Certification Number: _____
(* where applicable)

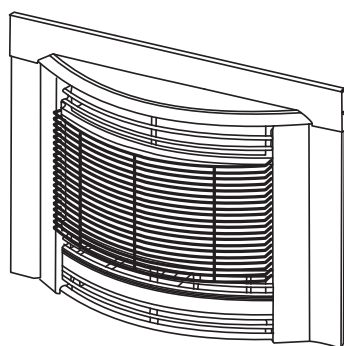
Authorised Persons – Licence Number: _____

Signed: _____ Date: _____

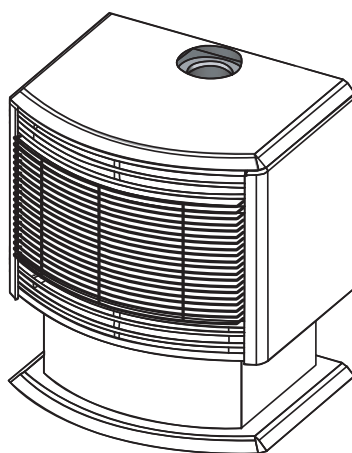
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Rinnai

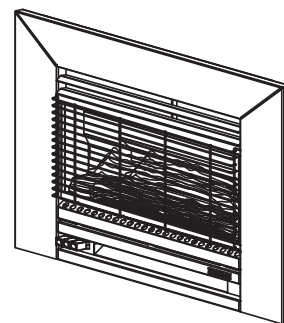
The Rinnai Flame Fire Heater Family



**Inbuilt Royale
IB35 / IB35ETR**



**Freestanding Royale
FS35 / FS35ETR**



**Inbuilt Slimfire
IB25**

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National Help Line

Spare Parts & Technical Info
Tel: 1300 555 545*
Fax: 1300 555 655*

*Cost of a local call Higher from mobile or public phones.

Internet: www.rinnai.co.nz E-mail: sales@rinnai.co.nz

24 Hour Service

Tel: 0800 746624 (0800 Rinnai)