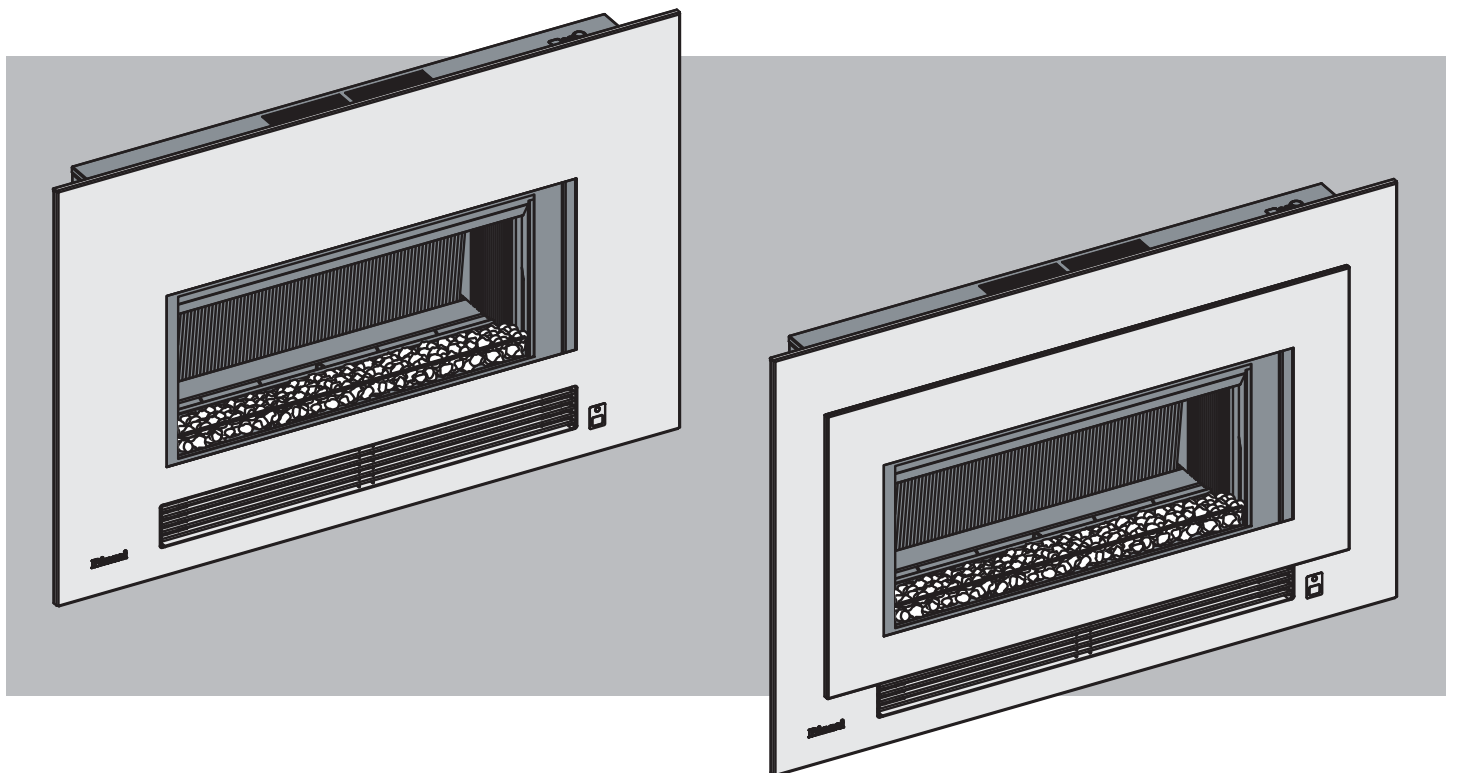


Rinnai

Power Flued Flamefire Gas Space Heater **RHFE-752ETR**



This appliance shall be installed in accordance with:

- Manufacturer's Installation Instructions
- Current AS/NZS 3000 & AS/NZS 5601
- Local Regulations and Municipal Building Codes

This appliance must be installed, serviced and repaired by an Authorised Person.



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



N10378



Quality
ISO 9001
SAI GLOBAL

**Quality
Endorsed
Company**

Lic 4983
Head Office Certified

Distributed and serviced
in Australia under a
Quality System certified
as complying with ISO
9001 by SAI Global

**Congratulations on the purchase of your Rinnai RHFE-752ETR Flamefire.
We trust you will have many years of comfort and enjoyment from your appliance.**

**BEFORE PROCEEDING WITH THE OPERATION OR INSTALLATION OF YOUR NEW HEATER
PLEASE READ THIS MANUAL THOROUGHLY AND GAIN A FULL UNDERSTANDING OF THE
REQUIREMENTS, FEATURES AND OPERATION OF YOUR NEW APPLIANCE.**

INSTALLATION RECORD

INSTALLERS / GAS FITTERS DETAILS

Installers Name: _____

Company Name: _____

Company Address: _____

Company Contact Details

Telephone: _____

Mobile Phone: _____

Certificate of Compliance / Certification Number: _____

Authorised Persons - Licence Number: _____

Installers Signature: _____

Installation Date: _____

APPLIANCE DETAILS

Model Number: _____

Serial Number: _____

Installation Address: _____

OPERATION MANUAL

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BEFORE YOU START

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 RHFE-752ETR has 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.

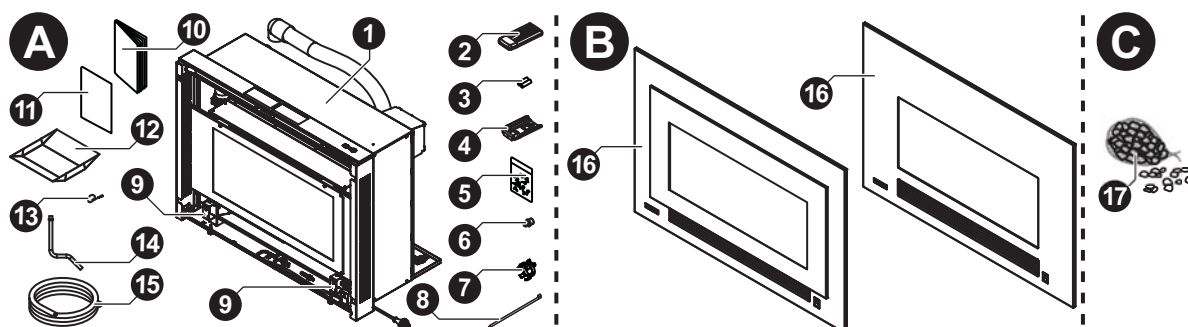
Please keep these instructions in a safe place for future reference.

FLUE INSTALLATION MANUAL

These instructions are to be used in conjunction with the Rinnai "Power Flued Flamefire Space Heater Co-axial Flue System Installation Manual" supplied with flue kits ASPDFK or ASPKIT03.

CARTON CONTENTS / ITEM CHECKLIST

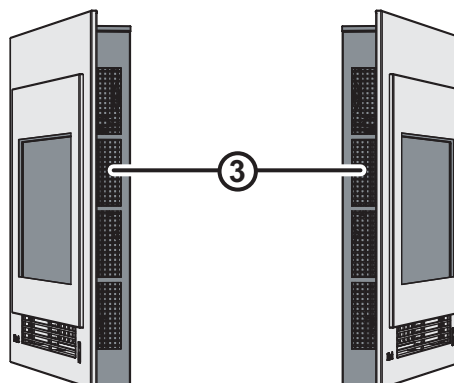
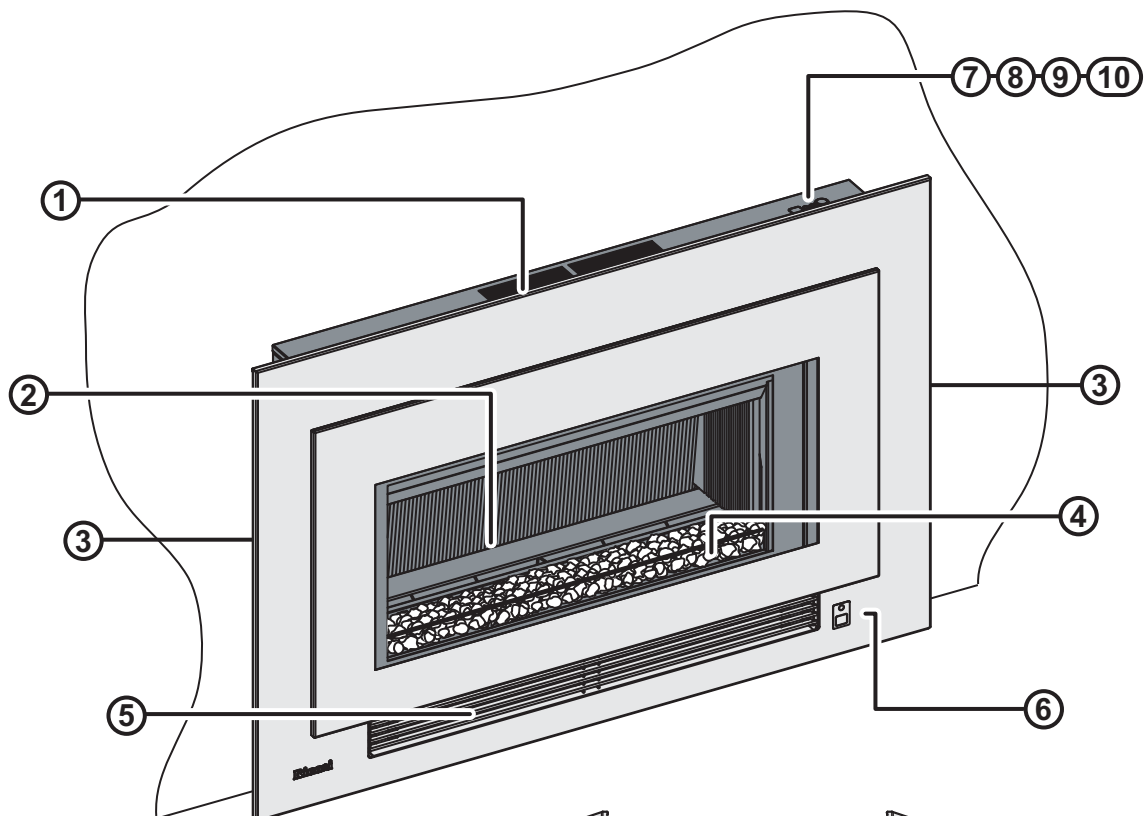
The components for RHFE-752ETR heater are supplied in 3 separate cartons, the following tables list which components are in each carton. Ensure that the components listed are present before proceeding with the installation.



Component Descriptions		Carton Contents		
		A Engine	B Fascia	C Burn Media
1	Rinnai RHFE-752ETR Engine.	●		
2	Remote Control.	●		
3	1.5V AAA Batteries (x2)	●		
4	Remote Control Mounting Bracket.	●		
5	Fixings: Screw 8x1 Truss PH ZP (x2), Screw M4 x 20 Pan Phil Zinc (x1).	●		
6	1/2" BSP x 5/8" UNF 3/8" Tube Flare.	●		
7	Flue Exhaust Lock (see Flue Installation Manual for details).	●		
8	Cable Tie 300mm	●		
9	Fascia Mounting Screws (x2 pre-installed in the engine fascia mounting brackets).	●		
10	This Operation and Installation Manual.	●		
11	Condensate Kit Instructions (use in conjunction with Flue Installation Manual).	●		
12	Condensate Tray (see Flue Installation Manual for details).	●		
13	Wire Tie (see Flue Installation Manual for details).	●		
14	Condensate tube (see Flue Installation Manual for details).	●		
15	Condensate Drain Hose (see Flue Installation Manual for details).	●		
16	Fascia (double or single fronted styles available separately).		●	
17	Mesh Bag Containing Burner Media.			●

ABOUT YOUR NEW RHFE-752ETR SPACE HEATER

GENERAL DESIGN LAYOUT



① AUTO OVERHEAT
DISCHARGE VENT

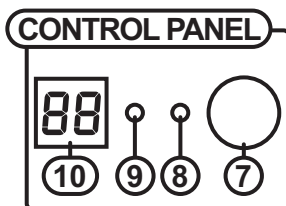
② DOUBLE GLAZED
FLAME WINDOW

③ ROOM AIR RETURN

④ BURNER MEDIA

⑤ LOUVRE, WARM
AIR DISCHARGE

⑥ RECEIVER WINDOW /
BLOCKAGE INDICATOR
Remote control receiver, Indicator
for filter/louvre blockages



⑦ ON/OFF BUTTON
Turns the heater On or Off.

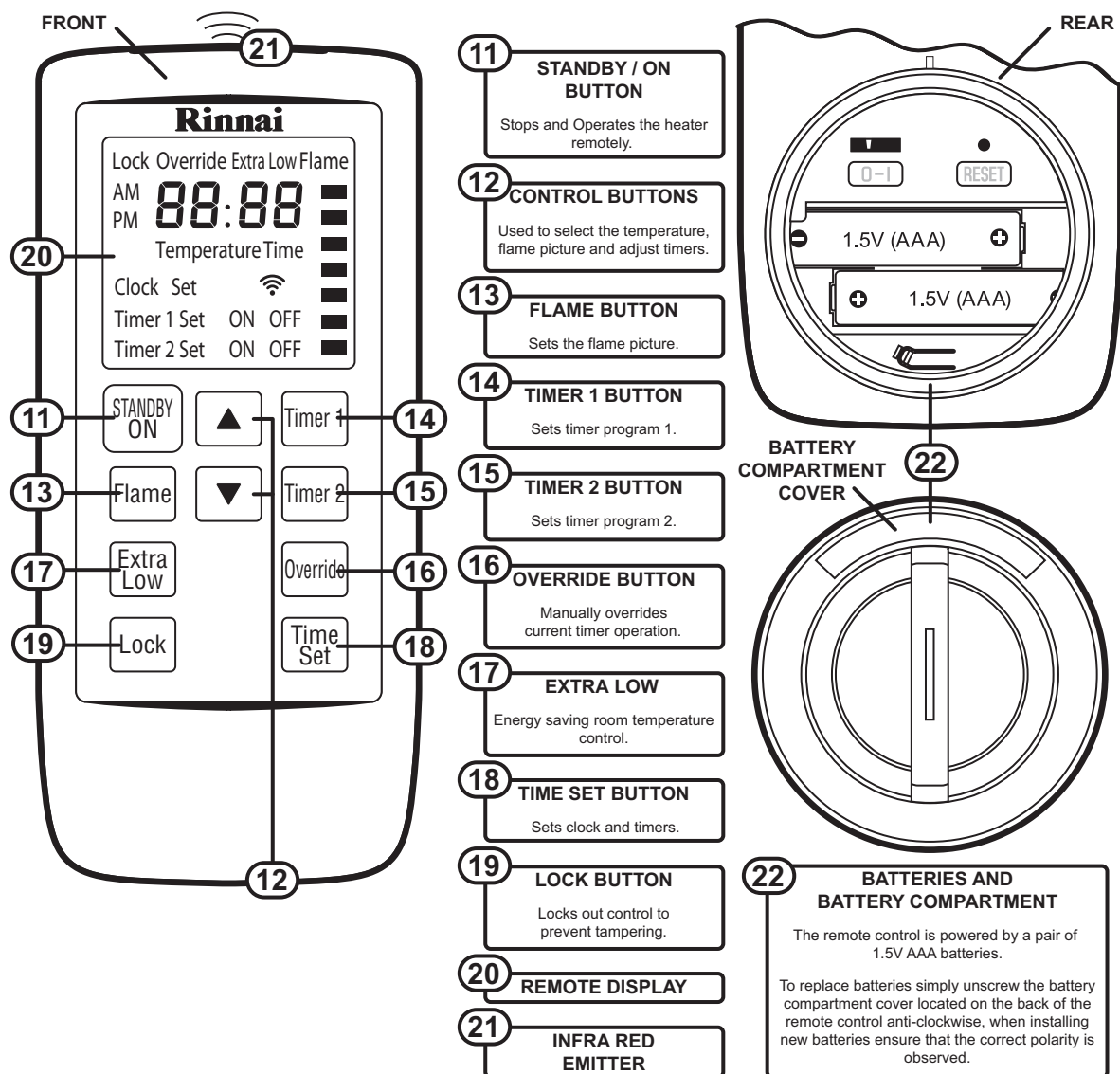
⑧ OPERATION INDICATOR
Indicates operation status

⑨ TIMER INDICATOR
Indicates timer program status.

⑩ ERROR DISPLAY
Displays error codes

ABOUT YOUR NEW RHFE-752ETR SPACE HEATER

REMOTE CONTROL GENERAL LAYOUT

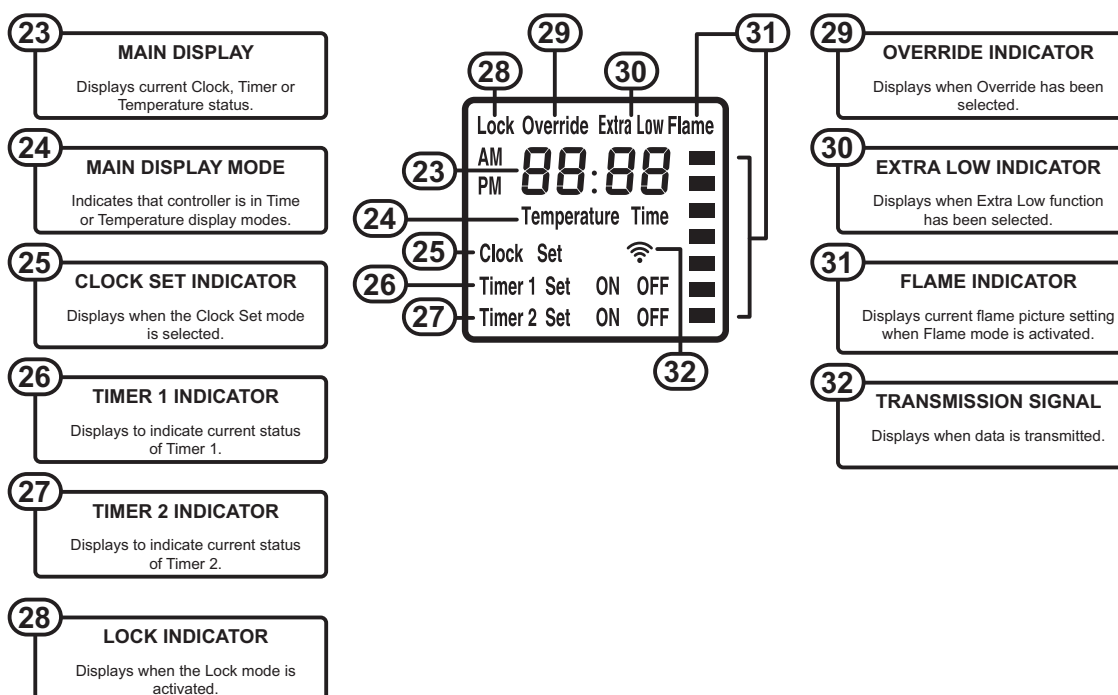


NOTE

- Use 2 x 1.5V AAA batteries. NEVER mix old and new batteries.
- Remove batteries if the remote control is not going to be used for a long period. This will help avoid damage from leaking batteries.
- When using Timers press Override to activate remote control functions.
- If the heater is operating in Override mode, using the STANDBY/ON button will cancel any future timer operations, these will have to be reset manually.
- 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 leaving the remote control in direct sunlight and do not place it close to the warm air discharge louvres of the heater.
- Avoid dropping the remote control or getting it wet.

ABOUT YOUR NEW RHFE-752ETR SPACE HEATER

REMOTE CONTROL DISPLAY



FEATURES

- **Room Sealed:** Air for combustion is taken from the outside and the flue products are exhausted to the outside. This means heater operation has no effect on the composition and quality of air in the room.
- **Push Button Ignition:** Only one touch of the STANDBY/ON switch is all that is required to operate the heater.
- **Lock:** When the Lock function is activated all controls other than the STANDBY/ON switch will be locked. Deactivating the lock releases the controls. If the lock is activated when the appliance is in STANDBY, all functions will be locked.
- **Memory:** The heaters micro-computer records preset temperatures, timer programming, and operational modes. Even in the event of a power failure, the need for reprogramming is minimised.
- **Dual Timer:** The Dual Timer allows you to program the appliance to operate for two separate periods each day. Once programmed the heater can then be controlled by selection of the Timer 1 and or Timer 2 functions.
The Dual Timer feature means that you can "Set and Forget" your heater. It will turn itself ON or to STANDBY at the times you have programmed until you cancel the Timer program.
- **Pre-Heat:** This function automatically operates the appliance before the programmed ON time of the Timer, in order to heat a room to the pre-set temperature by the programmed ON time.
- **Remote Control:** Full function cordless remote for the convenience of operating the heater from a distance.
- **Extra Low Function:** The Extra low function is an energy saving feature designed to control the room temperature economically. If the room temperature continues to rise above the set temperature on thermostat the main burner will turn down to its lowest setting. When the room temperature requires further heating the heater will automatically re-ignite to warm the room.

UNPACKING THE APPLIANCE:

Check for damage and missing parts. If the heater is damaged or missing any parts, contact your supplier for advice. Before installing the appliance, check it is labelled for the correct gas type (see label on top rear of heater). Refer to local gas authority for confirmation of gas type if you are in doubt.

SAFETY



WARNING

DO NOT MODIFY THIS APPLIANCE.

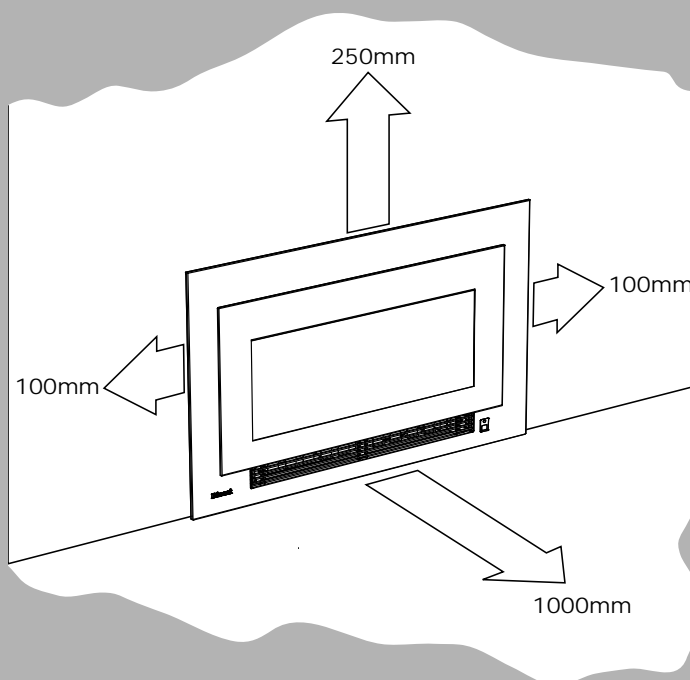
Failure to comply with these instructions could result in a fire or explosion, which could cause serious injury, death or property damage.

Improper installation, adjustments, service or maintenance can cause serious injury, death or property damage. Such work must be performed by an authorised person.



IMPORTANT

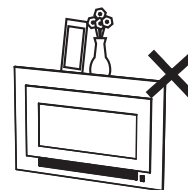
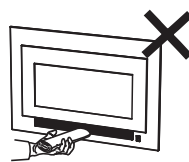
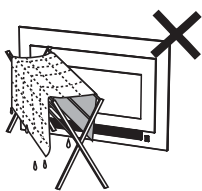
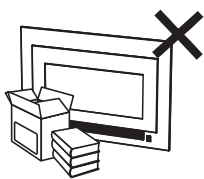
- a. The appliance must be installed in accordance with the local gas and electrical authority regulations.
- b. For information on gas consumption, see data plate on the appliance.
- c. This appliance must not be installed where curtains or other combustible materials could come into contact with it. In some cases curtains may need restraining.



The above diagram shows the clearances required around this heater whilst in operation.

- d. 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 the appliance, extending at least 750 mm in front of it.
- e. The appliance is not intended for use by young children or infirm persons without supervision.
- f. Young children should be supervised to ensure they do not play with the appliance.
- g. 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.

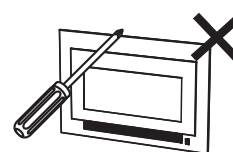
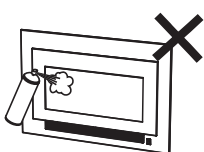
SAFETY



DO NOT restrict the warm air discharge by placing articles in front of the heater. This appliance must not be used for any purpose other than heating.

DO NOT allow anyone to post articles through the louvres or let flammable and combustible materials to come into contact with the heater.

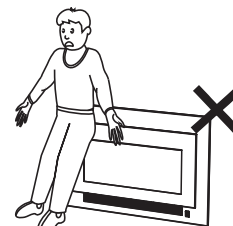
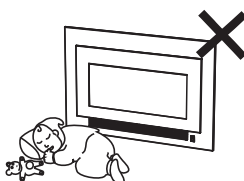
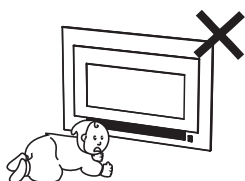
DO NOT place articles on or against this appliance, on the heaters top panel or obstruct the auto overheat discharge vent.



DO NOT spray aerosols in the vicinity of this appliance 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.

DO NOT store flammable materials near this appliance.

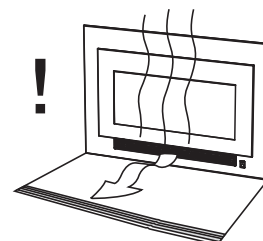
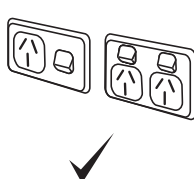
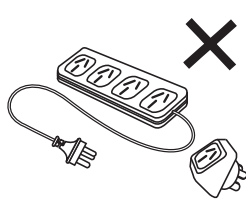
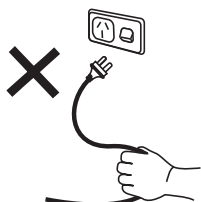
DO NOT modify this appliance.



Young children should be supervised at all times. Hand or body contact with the warm air discharge louvres and glass must be avoided.

DO NOT allow young children or the infirm to sleep directly in front of the heater.

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. Unplugging the heater will cause any timer operation to stop. Timer programs are stored in the memory of the remote control.

A dedicated 230~240V 50Hz 10 Amp power point must be used with this appliance. **DO NOT** use power boards or double adaptors to operate this appliance. The appliance **MUST NOT BE** located below a power Point.

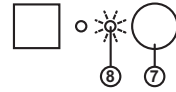
Heat emanating from the front of this appliance may over time affect the appearance of some materials used for flooring such as carpet, vinyl, cork or timber. This effect may be amplified if the air in the room contains cooking vapours or cigarette smoke. To avoid this possibility, it is recommended that a mat be placed in front of the appliance, extending at least 750 mm in front of it.

BASIC HEATER OPERATION

GENERAL NOTES ABOUT IGNITION

This appliance has a sealed combustion chamber that requires purging before gas is allowed to flow and the ignition sequence begins. As a result the combustion fan starts several seconds before there are any signs of ignition. The normal ignition sequence is as follows:

1. When the On/Off ⑦ button is pressed the Operation Indicator ⑧ LED will glow red and Combustion fan will rotate to purge the system.
2. Ignition sparker operates.
3. As soon as a spark is sensed, gas will flow to the main burner.
4. When the main burner has established the heater will automatically modulate between burner settings to achieve and maintain the default set temperature of 22°C.



NOTE

When using the heater for the first time or after long periods of non use, ignition may not occur the first time it is operated due to air in the gas pipes. If ignition does not occur within approximately 60 seconds the appliance will attempt to re-light, however if ignition continues to fail the unit will cease operation automatically. Try operating the heater again if this occurs.

The heater may make noises after ignition or extinction. This is due to expansion and contraction of the internal components and is normal page 13 for details.

The heater will not ignite if the ON/OFF button is pressed straight after extinction. After approximately 20 seconds “purge period” has passed the unit will automatically go into ignition mode.

OPERATION WITHOUT THE REMOTE CONTROL (AUTOMATIC MODE)

The remote control stores the clock, timer and temperature settings for the heater. The heater can be operated and stopped without the remote control by simply using the On/Off ⑦ button on the top panel of the heater. Operation in this manner is known as automatic mode. In automatic mode the default set temperature is 22°C. For operation in other modes the remote control must be used.

OPERATION WITH THE REMOTE CONTROL

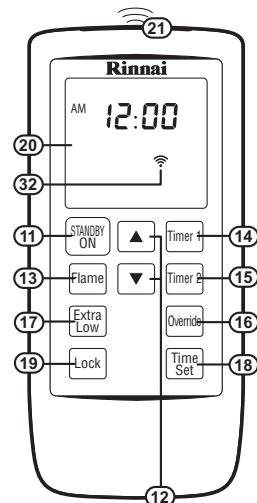
For the remote control functions to be available, the heater must be switched between standby and off using the remote control.

The remote control emits an Infra Red (IR) signal and must be aimed at the receiver unit located to the right of the warm air discharge louvre ⑤. The normal operating range is approximately 5 metres, up to an angle of approximately 40 degrees to the horizontal. This range may vary depending on the position of the installation and the strength of the remote controller batteries. The remote control transmits information to the heater whenever a button is pressed except as follows:

1. When the remote control display is de-activated and any button is pressed to restore the display
2. When the lock function is activated

When the timers are being set, timer information is transmitted only when the 'Time Set' button is pressed.

Signal transmissions are confirmed by a brief illumination of the Transmission Signal ③② Indicator on the Remote Display ②① and at the heater the Remote Control Indicator ⑥ located to the right of the warm air discharge louvre ⑤ will flash and a beep will sound to confirm that the settings have been received.



NOTE

When the remote control is not used for a period of approximately 5 seconds the display will then default to stand-by mode, displaying only the time.

To re-activate the remote control press any button on the keypad. This returns the display to the previous mode. No information is transmitted from the controller to the heater when re-activating the display.

BASIC HEATER OPERATION

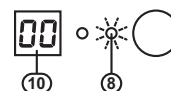
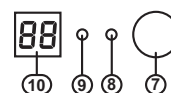
TURNING ON THE POWER

Press the On/Off (7) button located on the heater control panel once. The Operation Indicator (8) will illuminate and glow 'Red' and the ignition process will commence.

The heater will continue to operate in the automatic mode to achieve and maintain a default temperature setting of 22°C until an alternate command is received from the remote control.

If the main power is disrupted whilst the heater is operating, once the power is restored the heater will go into power failure mode. This is indicated by a pair of flashing zeros in the Error Display (10) window and a 'Green' flashing Operation Indicator (8).

To reset the heater, press the On/Off (7) button once. Press the STANDBY/ON (11) button a second time to switch the heater on.



To operate the heater in automatic mode without using the remote control, press the main power switch on the heater off and then on again. The heater will operate with a default set temperature of 22°C.

If the heater is turned off using the On/Off (7) button on the heater control panel when it is turned back on it will lose all timer and clock settings until the remote control is used to re-transmit this information.



DO NOT unplug the main power supply, to extinguish the flames as this may cause damage. The convection fan is required to continue operation for several minutes after extinction of the flames to assist cooling.

USING THE REMOTE CONTROL TO OPERATE THE HEATER

Turning The Heater On

When the heater is in standby mode (Operation Indicator (8) illuminated 'Green') pressing the STANDBY/ON (11) button will start the ignition sequence and the Operation Indicator (8) will glow 'Red' to indicate that the heater is now in operation.

Turning The Heater To Stand-By

Press the STANDBY/ON (11) button. This will extinguish all flames and the Operation Indicator (8) will glow 'Green' to indicate the appliance is now in stand-by mode.

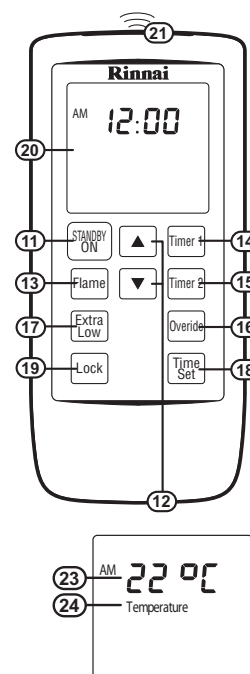
ADJUSTING THE TEMPERATURE

When in automatic mode, pressing the Up and Down (12) buttons will change the pre-set temperature by increments of 1°C with each press.

"Temperature" (24) will be displayed to confirm that the function has been initiated. The Remote Display will show the selected temperature (23) in degrees °C.

The temperature can be pre-set to:

- A. **L (Low)** – Continuous combustion on low.
- B. **16°C ~ 26°C (in 1°C steps)** – Thermostatic control to pre-set temperature selected. Combustion rate varies to maintain the selected temperature.
- C. **H (High)** – Continuous combustion on high.



BASIC HEATER OPERATION

FLAME FUNCTION

The flame function is used to select a desired flame picture and overrides the automatic mode. There are seven separate flame picture settings available.

While the heater is in operation press the Flame (13) button once to activate this function. The heater will automatically default to the last used flame picture setting. "Flame" and a series of seven short bars (31) (one bar for each of the seven flame picture settings) will be displayed to show that the flame function is in operation.

Use the Up and Down (12) buttons to select the desired flame picture. The number of bars illuminated correspond to the flame picture setting selected.

To return to automatic mode press the Flame (13) button a second time.



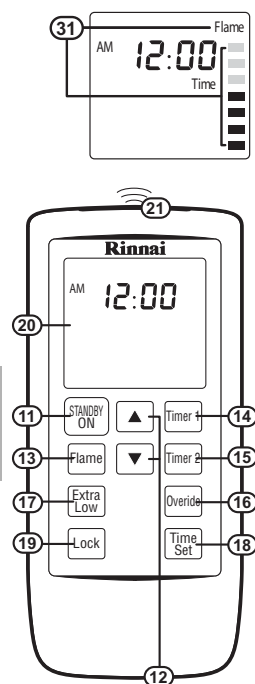
Should the room temperature reach 40°C whilst the flame function is activated the heater will switch off automatically. This is a safety feature.

REMOTE CONTROL BATTERIES

Use 2 x 1.5V AAA batteries. NEVER mix old and new batteries.

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

To replace batteries simply unscrew the battery compartment cover located on the back of the remote control anti-clockwise. When installing new batteries ensure that the correct polarity is observed, the polarity is engraved into the battery compartment. See the illustration on page 3.



PROGRAMMED HEATER OPERATION

PROGRAMMING THE CLOCK AND TIMERS

The clock must be set before the timers will operate. The clock may need to be re-set whenever the remote control batteries are changed. This heater has two timers which allow the heater to start and stop during two distinct periods each day. The set temperature during timer operation is the temperature which was selected when the heater was last used.

Clock Setting

1. Press the Time Set (18) button once. "Clock Set" (25) will be displayed to confirm that the function has been initiated. The Remote Display will show "AM 12:00" (23).
2. Use the Up and Down (12) buttons to set the desired "AM" or "PM" clock time. Then press the Time Set (18) button once.



If you do not want to set the timers at this point then press the Time Set (18) button 4 more times until the display returns to the time. If there is no button pressed for approximately 90 seconds then the screen will deactivate and any settings that have not been transmitted will be lost.

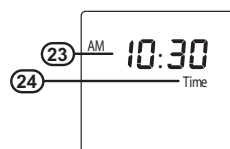
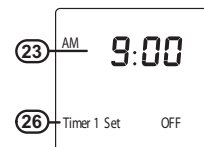
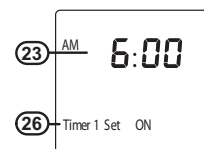
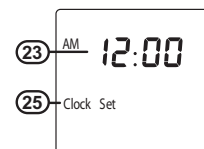
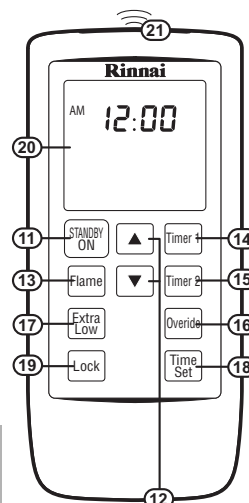
Timer Setting

3. "Timer 1 Set ON" (26) and "AM 06:00" (23) will be displayed. Use the Up and Down (12) buttons to set the desired "AM" or "PM" "ON" time. Press the Time Set (18) button once.
4. "Timer 1 Set OFF" (26) and "AM 09:00" (23) will be displayed. Use the Up and Down (12) buttons to set the desired "AM" or "PM" "OFF" time. Press the Time Set (18) button once.
5. To set-up Timer 2 repeat steps 3. and 4 above or just press the Time Set (18) button three times to exit the timer set-up.
6. The set On/Off timers will be displayed briefly to confirm settings.

When the programs have been received the Remote Display will revert to Time mode (23) and (24).



After battery replacement the clock and timers may need to be re-programmed.

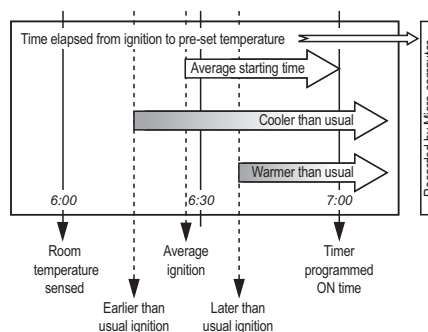


PRE-HEAT

This function operates automatically in conjunction with the Timers. When a Timer is selected, the heater may operate anywhere within an hour prior to the programmed ON Time.

This function is called Pre-heat as it ensures the room reaches the desired temperature by the programmed ON time. This is achieved by sensing the rooms temperature one hour prior to start.

The difference in room and set temperatures at the time of sensing the room temperature determines exactly how long before the programmed ON time the micro-computer will ignite the burner.



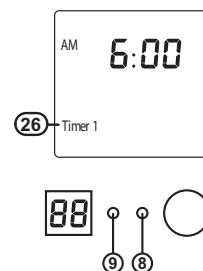
PROGRAMMED HEATER OPERATION

USING THE TIMERS

Prior to using timers ensure that the desired temperature has been set. See ADJUSTING THE TEMPERATURE on page 8.

One or both Timers can be used. While the heater is in operation press to start Timer 1 press the Timer 1 (14) button. To start Timer 2 press the Timer 2 (15) button. The display briefly shows the status of each Timer (e.g. Timer 1 ON Timer 1 OFF). If the current time is outside those programmed the heater will go in to stand-by mode and the Timer Indicator (9) will glow 'Green'.

To turn the Timer(s) off simply press the relevant Timer button again. The heater will return to stand-by mode and the Operation Indicator (8) will glow 'Green', if there are no timers set the Timer Indicator (9) will go out.



When operated by the Timer(s) the Flame Function is not available. If desired the flame picture can be controlled by raising or lowering the set temperature.

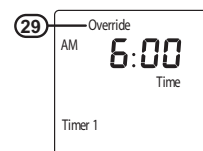
USING THE OVERRIDE FUNCTION

This function is used to manually override Timer programmed operation.

When the Override (16) button is pressed "Override" (29) will be displayed to confirm that the function has been selected. Whilst in Override mode all remote control functions except for the flame function are available until the next Timer event.

To return to Timer programmed operation press the Override (16) button a second time.

If the STANDBY/ON (11) button is pressed during Override operations the heater will revert to STANDBY and the Timer programs will be cancelled.



USING THE EXTRA LOW FUNCTION

The Extra Low function is useful in situations when the room temperature keeps rising even when the heater is on the lowest heat setting.

Extra Low Function 'OFF'

When the room temperature reaches the preset temperature with the Extra Low function 'OFF', the heater continues to operate with the main burner on low to provide a flame picture with minimal heat output. In some cases this may still cause the room to become warmer than desired.

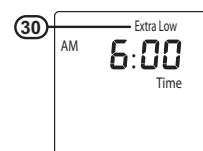
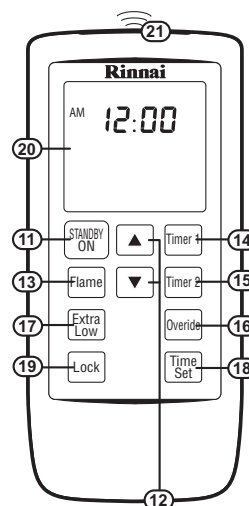
Extra Low Function 'ON'

When the room temperature exceeds the preset temperature with the Extra Low function 'ON' the burner will reduce to an extra low setting. The burner will return to normal to maintain the set temperature.

To switch the Extra Low function 'ON', press the Extra Low (17) button once.

"Extra Low" (30) will be displayed to confirm that the function has been selected.

To switch the Extra Low function 'OFF', press the Extra Low (17) button again.

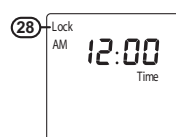


THE LOCK FUNCTION

By pressing the Lock (19) button all the functions of the remote control will be locked with the exception of the STANDBY/ON (11) button for the purpose of turning the heater to STANDBY only.

The Remote Control Display (20) will show "Lock" (28) in the top left hand corner.

To cancel the Lock function hold down the Lock (19) button for 3 seconds.



CARE AND MAINTENANCE

CLEANING

Your heater needs very little maintenance, however the following information will help you keep it looking good and working efficiently.



- **Unplug electrical cord before cleaning.**
- **DO NOT USE SOLVENTS.** All parts of the heater and remote control can be cleaned using a soft, damp cloth and a mild detergent.
- **DO NOT attempt to clean the heater while the appliance is hot or operating.**

FILTERS

The filters for this appliance are located on the Top ① and Side panels ③ of the appliance and consist of 2 metal mesh strips.

The build up of dust or other particles on these filter strips reduces the air flow through to the heater which in turn reduces heater's efficiency and can lead to the appliance shutting down.

Filter Care

Filters require cleaning regularly during the heating season to prevent these unnecessary cut-outs.

Cleaning filter strips:

Clean any dust and other debris from both faces of the filters with either a vacuum cleaner, a soft dry cloth or a soft brush. **NEVER** attempt to clean filters with water.

Heater shut down due to filter blockages

DO NOT wait for the Filter Blockage Indicator to come on before cleaning filters.

DO NOT continue to use the heater once this Indicator is flashing.

When an obstructive build up is detected the Blockage Indicator LED which is located above the Receiver Window ⑥ will begin to flash RED to let you know that there is a problem.

Once the Indicator is flashing if no action is taken the heater will eventually shut down to avoid overheating and a fault code of 14 will be displayed in the Error Display ⑩ window.

Returning the appliance to normal operation after a shut down

To restore to normal operation after a filter blockage shut down do the following:

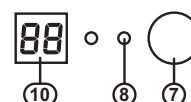
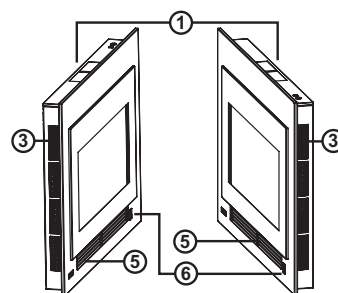
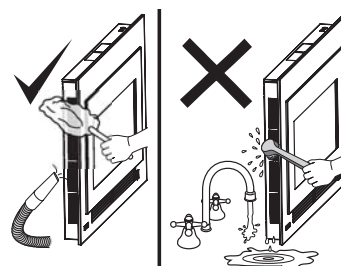
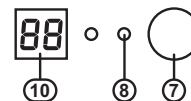
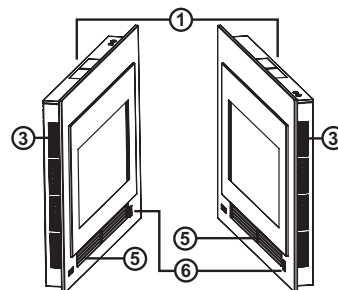
1. Press the On/Off ⑦ button once to turn off the heater.
2. Remove obstruction (see "Filter Care" on page 12).
3. Press the On/Off ⑦ button once to turn the heater back on.
4. Use the remote control to resume normal heater operation.

LOUVRES

It is important that the Louvres of the Warm Air Discharge ⑤ be kept clear of any obstructions as this will cause your heater to operate less efficiently.

When an obstruction is detected the Blockage Indicator LED which is located above the Receiver Window ⑥ will illuminate RED and the combustion state reduces to front burner, low operation only.

To restore normal operation remove the obstruction and use the remote control to resume normal heater operation



CARE AND MAINTENANCE

GENERAL HEATER CHARACTERISTICS

Before asking for a service call please check the following table as these characteristics are part of the normal operation of the appliance and do not indicate a fault.

CHARACTERISTIC	→	EXPLANATION
At ignition:		
Warm air does not start when the burner lights.	→	The room air fan is started automatically after a short delay. This is to allow the heat exchanger to warm up, helping to avoid cold draughts.
Smoke or strange smells are produced on the first up operation after installation.	→	This is caused by grease, oil or dust on the heat exchanger when new. This will stop after a short time.
Sharp clicking noises at ignition, or when the unit thermostat modulates to a lower or higher setting, or shuts down.	→	This is simply expansion and contraction noise from the heat exchanger and is normal.
During combustion:		
Clunking noise when the thermostat operates	→	This is the sound of the solenoid gas valves opening and closing to regulate the gas flow and is normal.
When the appliance is turned off:		
Convection fan continues to run after turning off.	→	This is to remove residual heat from the heat exchanger and stops once the appliance cools.
Other points:		
Steam is discharged from the flue terminal.	→	High efficiency appliances tend to discharge water vapour on cold days. This is normal.
Heater does not start when the STANDBY / ON button is pushed, thermostat is on High (H).	→	Check that the appliance On / Off button is ON. Check Timer(s). Timer(s) programmes must be turned off or overridden for manual operation.
Timer(s):		
Timer(s) do not operate at set time.	→	Timer(s) may either be inactivated or incorrectly programmed. Please confirm Timer(s) are set correctly. See page 10 for correct Timer(s) operation.
Timer operates for a short period and then cuts out.	→	Room temperature may be higher than the set temperature. Increase set temperature if desired. Cancel the Auto Off function.

SERVICE

Rinnai recommend that this appliance and installation be inspected and serviced every 2 years.

If the power supply cord or any other component of the heater are damaged, they must be replaced by Rinnai or a suitably qualified person.

Any service or repair work should only be carried out by an authorised person. Rinnai has service and spare parts departments nationally, see back cover for contact details.



Service calls for general cleaning, maintenance and wear and tear are not necessarily covered under the warranty. Service calls of this nature may be chargeable.

Faults caused by insufficient gas supply, gas quality, installation errors or operation errors are not covered by the Rinnai warranty. Refer to Warranty Card in this manual.

Appliances incorporating a live fuel effect and designed to operate with luminous flames may exhibit slight carbon deposition on burner media. Slight deposition is acceptable.

CARE AND MAINTENANCE

TROUBLE SHOOTING CHECKLIST

Use the following chart to help determine whether a service call is required, however if you are unsure about the way your heater is operating, contact Rinnai or your local agent.

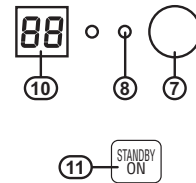
Fault Condition → Probable Cause	No Display on remote	No ignition or control panel indicators	Burners fail to ignite	Combustion stops during operation	Smell of gas	Remote control doesn't work	Possible Remedy ↓
Not plugged in or turned off.		●	●			●	Plug in power cord or press On/Off (7) button.
Mains power failure.		●	●	●			Use power failure reset procedure on page 7.
(Initial Install) Air in gas pipe.			●				Installer to purge air from gas supply.
Filter obstructed.				●			Remove and clean filters.
Gas escape.					●		Isolate gas supply, call Rinnai service, page 28.
On Timer set.						●	Use the Override as described on page 11.
Lock set.						●	Cancel Lock as described on page 11.
Gas supply turned off.			●	●			Turn gas supply on at the meter or cylinder.
Flat batteries.	●						Replace remote control batteries 2 x 1.5v (AAA).
Remote Control lock-up due to mis operations such as the remote signal being out of range, incorrectly aimed or obstructed.						●	Press the STANDBY/ON (11) button.

ERROR CODES

Your Rinnai space heater is also fitted with self diagnostic electronics that monitor the appliance during start-up and operation.

Should a fault occur the heater will shut down, the fault that has caused the shut down will be indicated by a pair of flashing digits in the Error Display (10) window and a 'Green' flashing Operation Indicator (8).

Refer to the table below for probable cause and the suggested remedy.



Code	Probable Cause	Suggested Remedy
00	Mains power failure	To reset the heater, press the On/Off (7) button twice or use the remote control and press the STANDBY/ON (11) button once for stand-by mode, press the STANDBY/ON (11) button a second time to set the heater to On.
11	Ignition failure	Check gas supply is turned on, switch the heater to Standby and then On again. If ignition failure continues to occur a Service call will be required.
12	Incomplete combustion	As above
14	Filter Blockage / Overheat	Clean filters, if error continues service call.
16	Room overheat	Lower room temp to below 40°C.
31	Room temperature sensor faulty	Service call.
32	Overheat temperature sensor faulty	Service call.
33	Overheat temperature sensor faulty	Service call.
53	Spark sensor faulty	Service call.
61	Combustion fan motor faulty	Service call.
71	Solenoids faulty	Service call.
72	Flame detection circuit fault	Service call.
73	Communication error	Service call.

INSTALLATION MANUAL

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INSTALLATION GENERAL

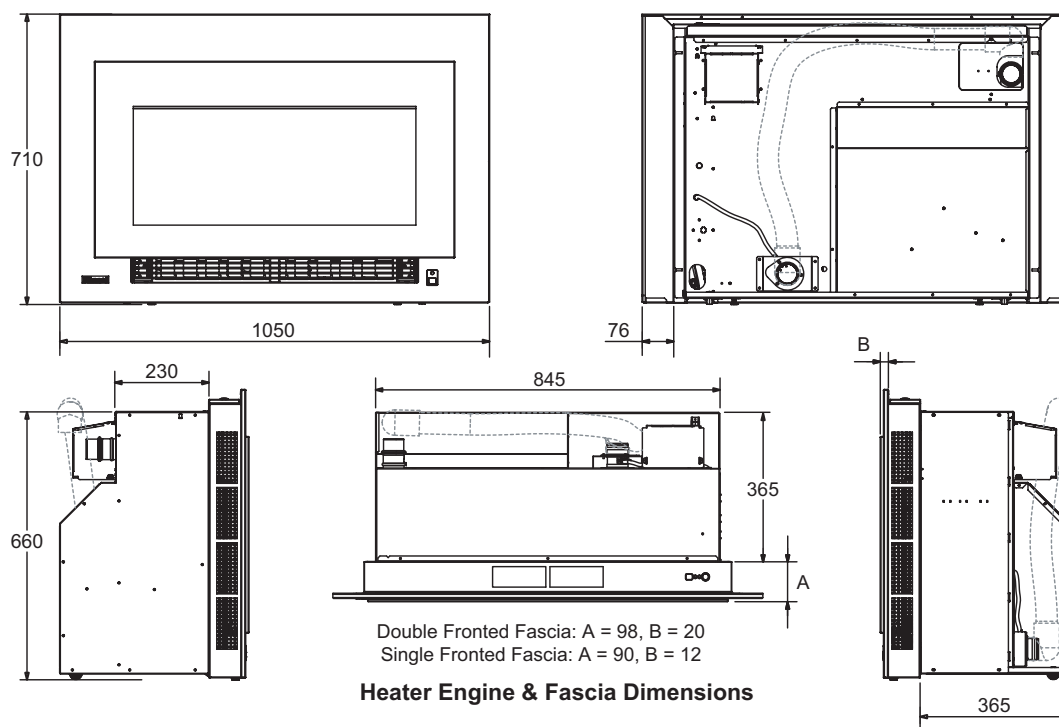
PRODUCT SPECIFICATIONS

Model: RHFE-752ETR

General description:	Inbuilt, glass or steel fronted, ceramic log space heater with forced convection heating and power flue system.		
Gas input rate:		Natural Gas	Propane
	Low (MJ/hr):	8	8
	High, Extended flue / Direct flue (MJ/hr):	28 / 31.5	28 / 31.5
Gas control:	Electronic control		
Burners	Flame burner		
Gas Supply Pressure:	(kPa)	1.13 - 3.5	2.5 - 3.5
Gas Connection:	1/2" BSP x 5/8" UNF 3/8" flare		
Flue System:	Fan assisted, twin chamber coaxial flue system, provides air for combustion to the appliance and allows expulsion of combustion products to atmosphere. Results in 'room sealed' appliance.		
Convection Fan:	Three speed radial flow fan		
Combustion system	Multi port burners		
Burner Media:	Quartz Pebbles or Glass Beads		
Ignition system:	Continuous spark electronic ignition		
Operation:	Push button electronic / Remote control		
Safety devices:	Overheat thermistor Flame failure sensing system Thermal fuse	Overcurrent fuse Spark detector Air temperature thermistor	
Combustion method:	Naturally aspirated burner		
Installation type:	Inbuilt only		
Weight:	70 kg		

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

APPLIANCE DIMENSIONS



HEATER LOCATION

When positioning the heater the main variables governing the location are Flueing and Warm Air Distribution.

This heater must not be installed where curtains or other combustible materials could come into contact with it. In some cases curtains may need restraining.

ENCLOSURE REQUIREMENTS

As the Rinnai RHFE-752ETR has a cool outer casing it can be installed into existing Masonry fireplace or into a decorative fireplace constructed from combustible materials such as wood or plaster.

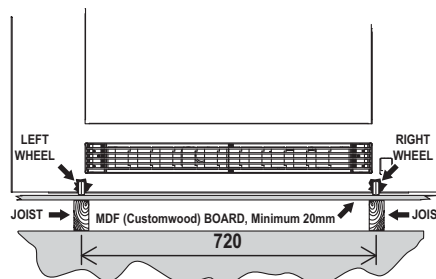


For all installations, ONLY Rinnai ASP & ES Flue components MUST BE used. The Rinnai RHFE-752ETR MUST NOT be flued into 'natural draft' flue system or via a chimney.
Consult the Rinnai "Power Flued Flamefire Space Heater Co-axial Flue System Installation Manual" supplied with flue kits ASPDFK or ASPKIT03 for detailed flue installation instructions.

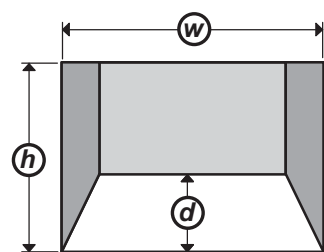
A pair of wheels located at the rear the heater allows it to slide in and out of the enclosure for ease of commissioning and maintenance. As such the heater must be positioned on a flat and level surface that allows free movement.

In a masonry fireplace, use a slurry of sand and cement to level the base as required.

In a decorative fireplace, if the appliance is elevated from the ground, a base must be constructed using a board with supporting joists as shown.



Enclosure Dimensions		
(w)	Width	860 mm
(h)	Height	660 mm
(d)	Depth	450 mm *
*Enclosure depth for 'down and out' flueing applications is a minimum of 500 mm. See Rinnai "Power Flued Flamefire Space Heater Co-axial Flue System Installation Manual" supplied with flue kits ASPDFK or ASPKIT03 for details.		



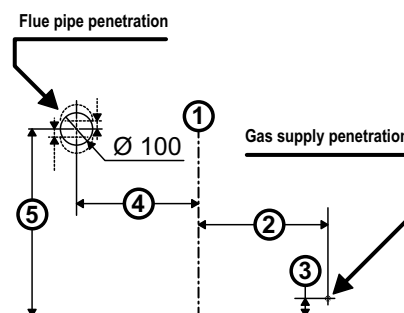
The enclosure dimensions specified are critical to the successful installation of this appliance and must be strictly adhered to.

WALL PENETRATION REQUIREMENTS

Mark the location of the gas supply (consumer piping) and flue pipe penetrations from the centreline ① of the heater enclosure using the following dimensions:

- ① Centreline of enclosure ② 400 mm right of centreline
- ③ 55 mm from base of enclosure ④ 378 mm left of centreline
- ⑤ 580 mm from base of enclosure plus or minus 25mm

Consideration must be given to the position of any studs, noggins or other components of the wall structure.



Ensure the penetration points are marked accurately as this is critical for successful appliance installation.

The penetration for the flue pipe only needs to be made for 'Direct' flue installations, where the flue terminal is located directly to the rear of the appliance.

If no flue pipe penetration is required the markings are still useful for indicating the correct position of the flue transition within the enclosure for extended horizontal flue applications.

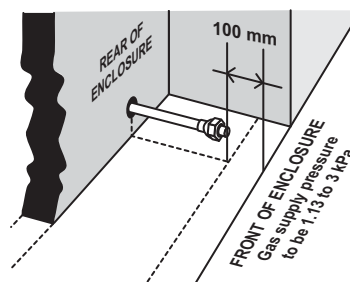
HEATER LOCATION

GAS SUPPLY

The gas supply terminates inside the heater and enters the appliance from the rear. To ensure correct positioning, terminate the gas supply so that it is 100 mm in from the front of the enclosure opening.



Gas pipe sizing must consider the gas input to this appliance as well as all other gas appliances in the premises. The gas meter and regulator must be specified for the total gas rate. Suitable sizing chart such as the one in AS/NZS 5601 should be used.



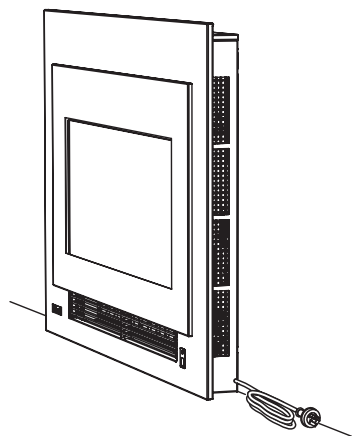
Purging The Gas Supply

All foreign materials such as filings must be purged from the gas supply, as they may cause the gas control valve to malfunction.

ELECTRICAL SUPPLY

This heater has a power cord with a three pin plug supplied. The power cord passes through a slot in the lower right of the appliance. If a left hand entry is required contact Rinnai for details.

Rinnai recommend the heater be plugged into a 240V, 10A earthed power point. The power point must be a maximum of 1500 mm to the side of the heater (it must not be above the heater). Alternatively the appliance can be direct wired if the power supply is to be concealed.

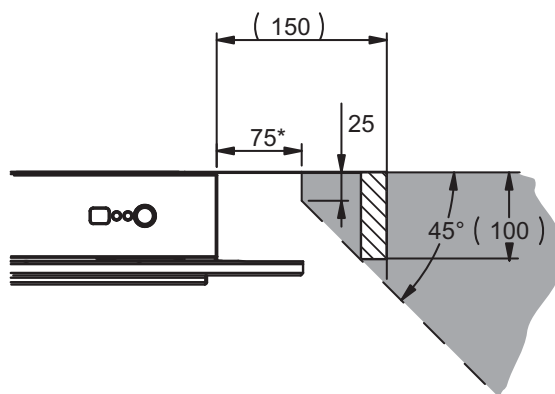


Consult a qualified electrician if direct wiring is required as it must comply with the requirements of AS/NZS 5601 and AS/NZS 3000 and any other relevant local regulations.

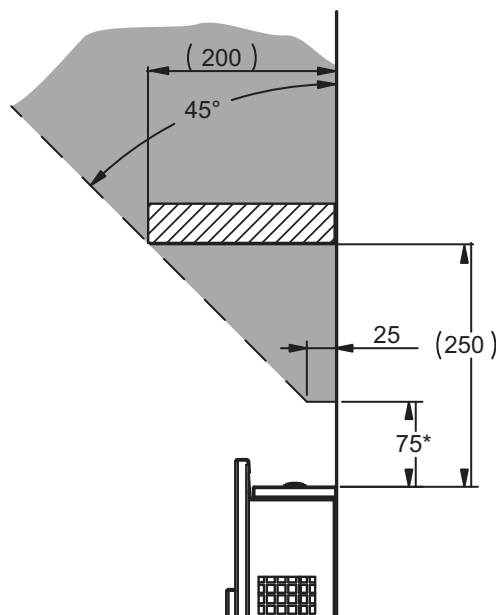
MANTLE INSTALLATIONS

A mantle is permitted providing the following clearances are met.

Top View



Side View



Mantles are allowed within the shaded areas



* 75 mm is the minimum clearance required for access to the heater controls and to allow cleaning / servicing of the filters.

FLUE INSTALLATION

TYPES OF FLUE INSTALLATIONS



Consult the Rinnai “Power Flued Flamefire Space Heater Co-axial Flue System Installation Manual” supplied with flue kits ASPDFK or ASPKIT03 for detailed flue installation instructions. Use only Rinnai RHFE-752ETR flue components with this appliance.

Option	Components	Order Codes	
① Direct	'Direct Flue' Kit	ASPDFK	
② ③ ④ Vertical Extension	'On Wall' Kit Co-axial Pipe 900mm* Roof Cowl	ASPKIT03 ESPIPE900 ESROOFCOWL	
② ⑤ Vertical Extension	'On Wall' Kit Co-axial Pipe 900mm* Bends (2 x 45°) Roof Cowl	ASPKIT03 ESPIPE900 ESBEND ESWTKIT	
③ ④ ⑥ Vertical Extension	'Direct Flue' Kit Co-axial Pipe 900mm* Bends (2 x 45°) Condensate Trap Kit Roof Cowl	ASPDFK ESPIPE900 ESBEND ESCONDK ESROOFCOWL	
③ ⑤ ⑥ Vertical Extension	'Direct Flue' Kit Co-axial Pipe 900mm* Bends (2 x 45°) Condensate Trap Kit Wall Terminal Kit	ASPDFK ESPIPE900 ESBEND ESCONDK ESWTKIT	
④ Sideways Extension	'On Wall' Kit Co-axial Pipe 900mm* Wall Terminal Kit	ASPKIT03 ESPIPE900 ESWTKIT	
⑤ Down & Out Extension	'On Wall' Kit Co-axial Pipe 900mm* Bends (2 x 45°) Wall Terminal Kit	ASPKIT03 ESPIPE900 ESBEND ESWTKIT	
* Order number of lengths as required			



Flue is NOT to be terminated under the floor or in a roof space.

'Down & Out' and vertical 'through roof' flue installations are permitted ONLY when the flue terminal is located externally.



For horizontal installations there must be a continuous fall of at least 2° to the termination point to drain condensate.

All terminations exceeding a vertical height of 1.5 metres must incorporate a condensate trap.

'Down & Out' flue systems must have a continuous fall of at least 2° to the termination point to drain condensate. Flue terminal must be at least 300 mm above the ground in accordance with AS/NZS 5601 - Fig. 6.2.

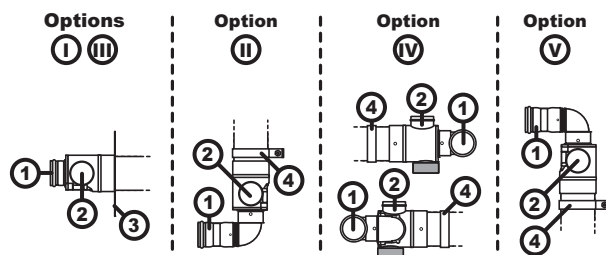
FLUE SYSTEM TRANSITION CASTING

The flue system transition casting provides a connection between the flue system and the heater's flue spigot and air intake hose.

A minimum 5 mm clearance from combustible materials to the transition casting is required.

This clearance is provided automatically when the 'stand off' brackets ④ that are supplied are used.

Flue system transition casting components are: ① transition casting flue outlet, ② transition casting air inlet and ③ Wall plate.



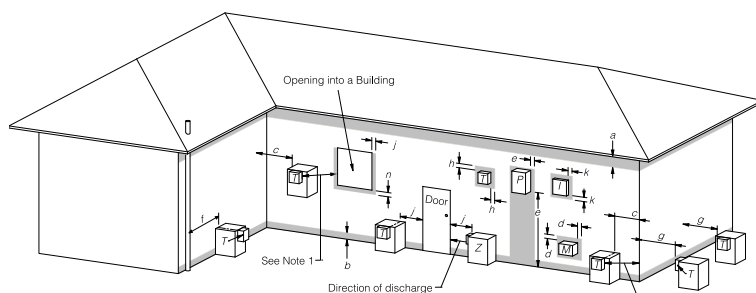
FLUE INSTALLATION

FLUE TERMINAL LOCATION



The flue terminal should be positioned away from flammable materials. The RHFE-752ETR flue terminal is 'Fan Assisted' with a maximum input of 32 MJ/h

Ensure that the location of the flue terminal can comply with the requirements of AS/NZS 5601 - Fig. 6.2 which is reproduced below.



T = Flue terminal Z = Fan assisted flue appliance only M = Gas meter P = Electricity meter or fuse box I = Mechanical air inlet
Shading indicates prohibited areas for flue terminals

Ref.	Item	Min. clearances (mm)	
		Natural draft	Fan assisted
a	Below eaves, balconies and other projections:		
	• Appliances up to 50 MJ/h input	300	200
	• Appliances over 50 MJ/h input	500	300
b	From the ground, above a balcony or other surface *	300	300
c	Front a return wall or external corner *	500	300
d	From a gas meter (M) (see 5.11.5.9 for vent terminal location of regulator) (see Table 6.6 for New Zealand requirements)	1000	1000
e	From an electricity meter or fuse box (P) †	500	500
f	From a drain pipe or soil pipe	150	75
g	Horizontally from any building structure* = or obstruction facing a terminal	500	500
h	From any other flue terminal, cowl, or combustion air intake †	500	300
j	Horizontally from an openable window, door, non-mechanical air inlet, or any other opening into a building with the exception of sub-floor ventilation:		
	• Appliances up to 150 MJ/h input *	500	300
	• Appliances over 150 MJ/h input up to 200 MJ/h input *	1500	300
	• Appliances over 200 MJ/h input up to 250 MJ/h input *	1500	500
	• Appliances over 250 MJ/h input *	1500	1500
	• All fan-assisted flue appliances, in the direction of discharge	-	1500
k	From a mechanical air inlet, including a spa blower	1500	1000
n	Vertically below an openable window, non-mechanical air inlet, or any other opening into a building with the exception of sub-floor ventilation:		
	• Space heaters up to 50 MJ/hr input	150	150
	• Other appliances up to 50 MJ/hr input	500	500
	• Appliances over 50 MJ/h input and up to 150 MJ/h input	1000	1000
	• Appliances over 150 MJ/h input	1500	1500

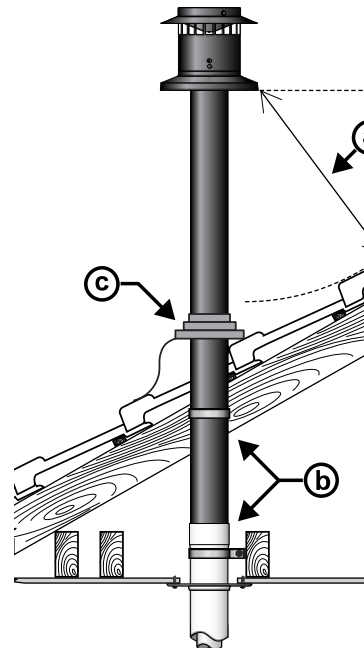
* - unless appliance is certified for closer installation

† - Prohibited area below electricity meter or fuse box extends to ground level.

NOTES:

- Where dimensions c, j or k cannot be achieved an equivalent horizontal distance measured diagonally from the nearest discharge point of the terminal to the opening may be deemed by the Technical Regulator to comply.
- See Clause 6.9.4 for restrictions on a flue terminal under a covered area.
- See Figure J3 for clearances required from a flue terminal to an LP Gas cylinder. A flue terminal is considered to be a source of ignition.
- For appliances not addressed above acceptance should be obtained from the Technical Regulator.

FIGURE 6.2 (in-part) MINIMUM CLEARANCES REQUIRED FOR BALANCED FLUE TERMINALS, FAN-ASSISTED FLUE TERMINALS, ROOM-SEALED APPLIANCE TERMINALS AND OPENINGS OF OUTDOOR APPLIANCES



- (a) Minimum clearance 500 mm to nearest part of roof.
- (b) Minimum clearance 25mm to combustible materials.
- (c) Decktite or lead collar flashing.



AS/NZS 5601 was current at the time of printing but may have been superseded. It is the installer's responsibility to ensure that requirements of the current version of AS/NZS 5601 are met.

When installing the condensate trap kit (ESCONDK) the included condensate tray MUST BE fitted. Consult the Rinnai "Power Flued Flamefire Space Heater Co-axial Flue System Installation Manual" supplied with flue kits ASPDFK or ASPKIT03 for installation instructions.



The flue system must be fully assembled and secured in place before the heater is installed into the enclosure.

HEATER INSTALLATION

1. UNPACKING THE APPLIANCE

The heater components are supplied in three main cartons. These cartons contain the heater body assembly, the fascia and the burner media for the contents of each carton refer to "CARTON CONTENTS / ITEM CHECKLIST" on page 1.

Check for damage and missing parts. If the heater is damaged or missing any parts, contact your supplier for advice. Before installing the appliance, check it is labelled for the correct gas type (see label on top rear of heater). Refer to local gas authority for confirmation of gas type if you are in doubt.

Remove the heater body assembly from the engine carton and position in front of the enclosure opening.



The heater does not come supplied with flue components. These are purchased separately. ONLY Rinnai RHFE-752ETR flue components can be used with this appliance.

2. CONNECTING THE APPLIANCE TO THE CONSUMER PIPING



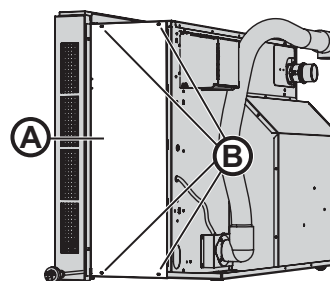
240 VOLTS, RISK OF ELECTRICAL SHOCK! Isolate the electricity supply before removing any panels.

Remove the right-hand side access panel (A) by removing the four retaining screws (B).

Extend the flexible gas connection (C) through the gas fitting access point (D) to the outside of the heater body.

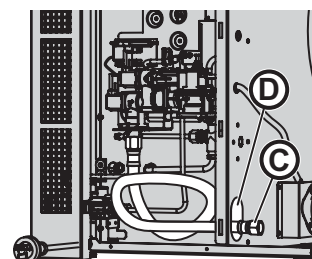
Position the appliance in front of the enclosure so that the end of the consumer piping aligns with the gas fitting access point (D).

Securely connect the flexible gas connection (D) to the consumer piping. Test all connections for gas leaks.



Use a soapy solution to test all gas connections. If a leak is present bubbles will form at the leak point. When finished remove any residue with a rag. Prevent any soapy solution from coming in contact with the electrical components.

Replace the right-hand panel (A) and secure with the four retaining screws (B).



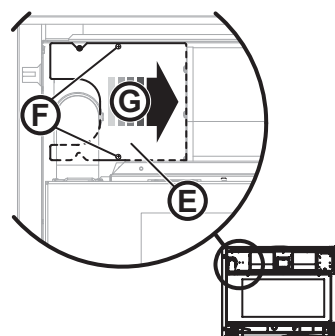
3. OPENING THE FLUE SYSTEM ACCESS PANEL

Unscrew the flue system access panel (E) (two screws) (F) located inside the top left-hand corner of the appliance, slide this panel to the right behind the convection fan (G).

Remember to position the air inlet hose so that it can still be accessed once the appliance is moved into the enclosure.



Tie a piece of string to the air hose and pass this through the flue system access opening. This will allow the air inlet hose to be pulled up into position as required.



HEATER INSTALLATION

4. HEATER BODY INSTALLATION

Carefully move the appliance body into the enclosure cavity ensuring that both the consumer piping and flue transition are aligned with their access openings.

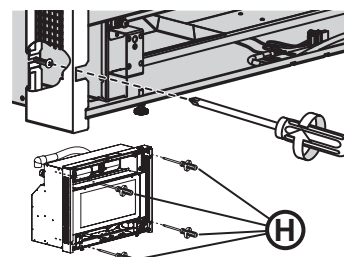
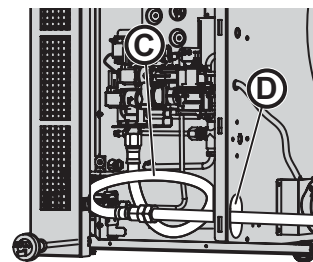
As the appliance is pushed home ensure that the flexible gas connection ③ coils freely inside the appliance and that the consumer piping penetrates through the centre of the gas access point ②.

Securing The Heater Body

Once the heater is in position open both air return louvre doors to gain access to the appliance mounting points ④.

The upper and lower mounting points (four in total) are located on each side of the appliance.

Secure heater body through these points using appropriate fixings.



5. CONNECTING THE FLUE SYSTEM TO THE APPLIANCE



Only Rinnai RHFE-752ETR flue components **MUST** be used with this appliance.

Connections between the heater and the flue system **MUST BE** made in accordance with the Rinnai “Power Flued Flamefire Space Heater Co-axial Flue System Installation Manual” supplied with flue kits ASPDFK or ASPKIT03.

Ensure the flue spigot of the heater is properly secured to the flue connection on the flue system transition casting using the clip and clamp provided.

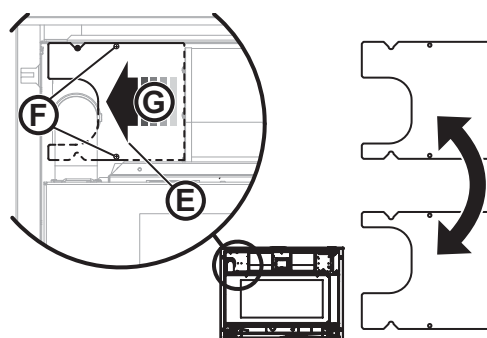
If this joint is not secured properly products of combustion could disperse into the room being heated which may result in a dangerous condition.

Ensure the elbow of the air intake hose from the heater is properly secured to the air connection on the flue system transition casting using the cable tie provided and that the rubber seal is placed on the unused air intake connection of the transition piece.

6. CLOSING THE FLUE SYSTEM ACCESS PANEL

Once the flue and air connections are secured slide ③ the flue system access panel ⑤ back into position and fasten ⑥ (two screws).

The hole in the flue system access panel is offset and can be reversed (flipped) as shown to align the position of the heater flue spigot with the flue system transition casting.



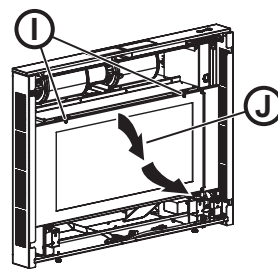
HEATER INSTALLATION

7. INSTALLING BURNER MEDIA

Removing Combustion Chamber Glass

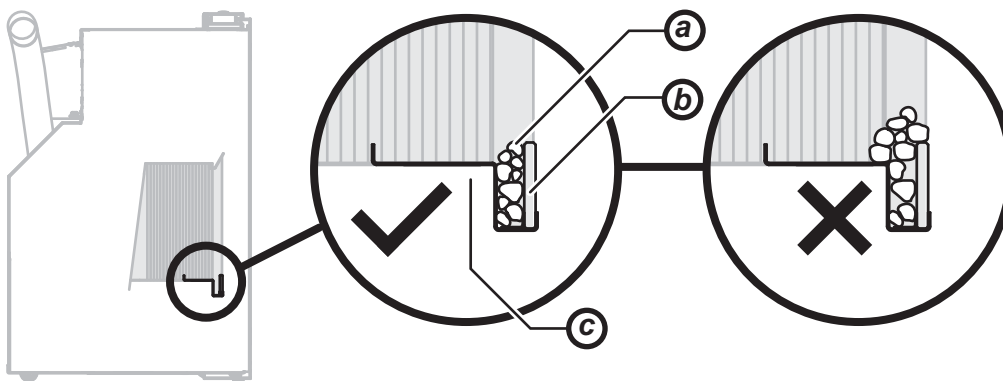
Before the burner media can be installed the combustion chamber glass panel needs to be removed as follows:

- I. Remove the two retaining screws ① that secure the combustion chamber glass panel ② to the heater engine.
- II. Then Rotate and lift the combustion chamber glass ② clear of the combustion chamber and place in a safe location until required.



Placing of Burner Media

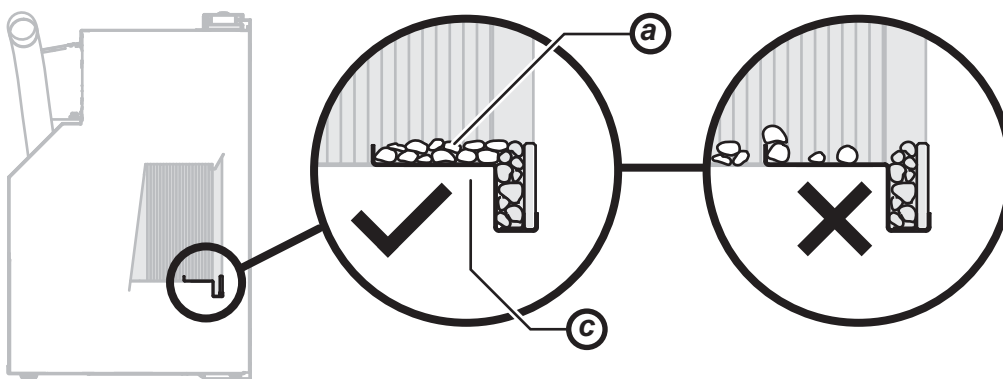
- I. Place burner media ③ in the gap between the glass retaining wall ④ and the stainless steel burner media shelf ⑤ until it has been completely filled.



DO NOT place the burner media on top of or above the level of the glass retaining wall.

Place burner media evenly and **AVOID** any large gaps between the burner media.

- II. Place the remaining burner media ③ evenly onto the stainless steel burner media shelf ⑤.



DO NOT place the burner media above the level of glass retaining wall and avoid gaps.

DO NOT place **ANY** burner media onto the burner plates.

Place burner media evenly and **AVOID** any large gaps between the burner media.

HEATER INSTALLATION

8. COMMISSIONING

Extended Flue

The gas pressures of the appliance are factory pre set for 'extended flue' installations (page 19 Options ②, ③, ④ and ⑤) and will normally not require adjustment and you may proceed to Step 9.

Direct Flue

If the appliance is to be used with a 'direct' flue system (page 19 Option ①), then gas pressures will need to be adjusted in accordance with the commissioning instruction sheet.

The commissioning instruction sheet ① is located in a plastic pouch on the bottom inner left hand panel below the combustion chamber glass panel ②.

Remove the top panel ③ by unscrewing the two securing screws ④, once these are removed the top panel can then be lifted clear of the engine.

Remove the the small access panel ⑤ on the right edge of the combustion chamber glass panel ② by unscrewing the two securing screws ⑥

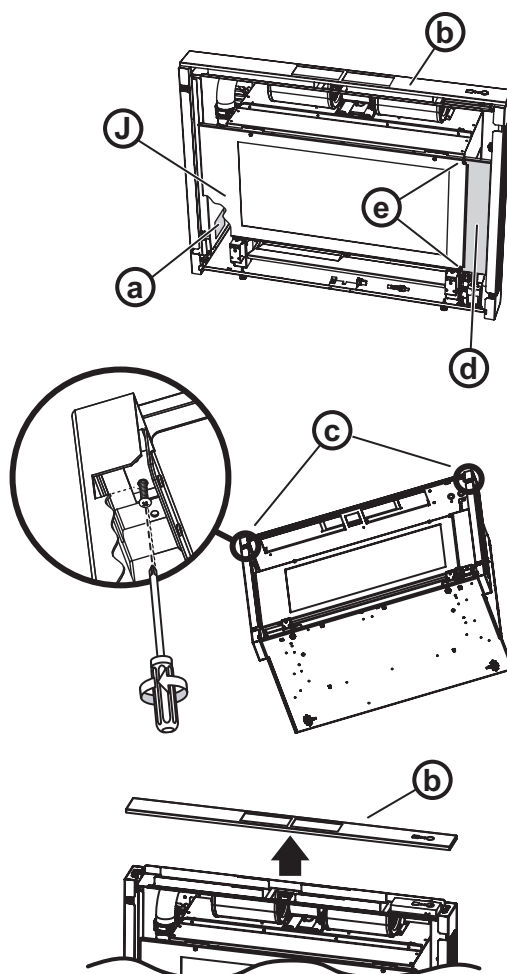
Follow the commissioning instructions to complete the gas pressure adjustments.

Check for the full and correct operation of the appliance.

Replace the top panel ③ and secure with screws ④.

Replace the side panel ⑤ and secure with screws ⑥.

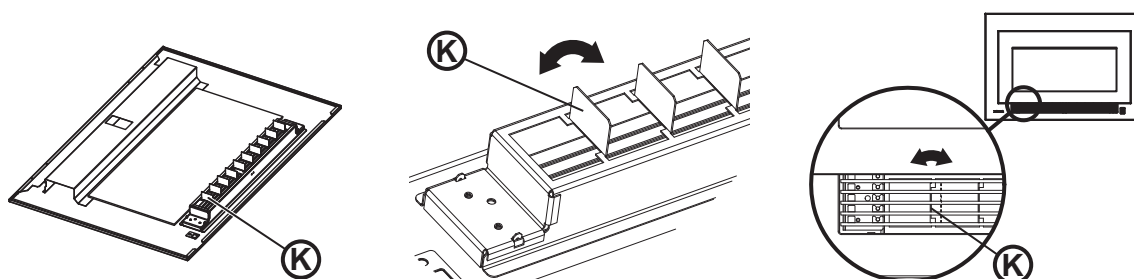
Return the commissioning instruction sheet to its plastic pouch and proceed to step 9.



9. SETTING AIR GUIDE VANES (AIR FLOW CONTROL)

The air guide vanes ⑦ allow the installer to set and adjust the horizontal air flow distribution of the appliance.

This is done by carefully bending the air guide vanes ⑦ to the either the left or right as required with a screwdriver or a similar object.



DO NOT repeatedly adjust the air guide vanes (more than 5 times) as this may cause the metal of the vanes to fracture or break.

DO NOT attempt to adjust the air flow direction while the appliance is in operation or hot as this can result in burn injury.

The horizontal louvres (which direct vertical air flow) are fixed and cannot be adjusted.

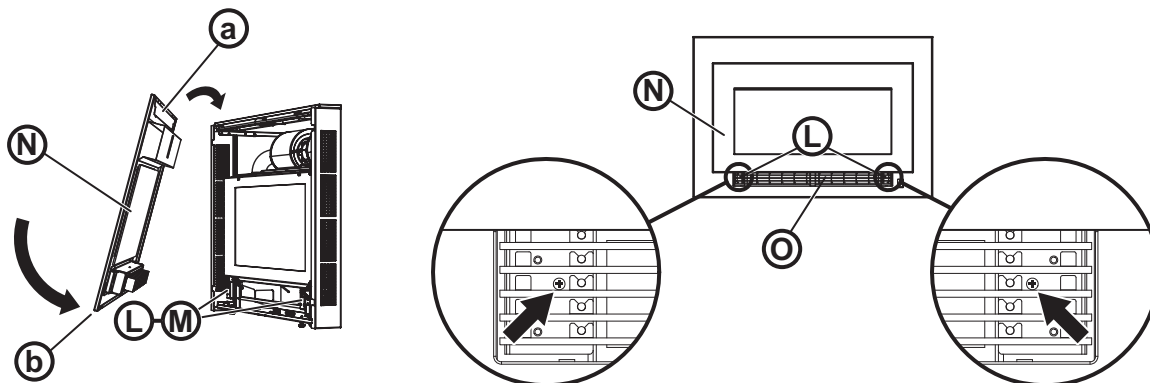
HEATER INSTALLATION

10. INSTALLING THE FASCIA PANEL

Remove **DO NOT DISCARD** the two fascia retaining screws (L) shipped installed in the lower fascia mounting brackets (M) of the heater engine.

Mount the fascia (N) by hooking the top of the fascia (a) to the body and rotating the bottom (b) in towards the engine body.

Using the fascia retaining screws (L) secure the fascia to the heater engine through the front of the warm air discharge louvre (O).



11. INSTALLATION AND COMMISSIONING CHECKLIST

- Complete the 'Customer Record' on page ii and the Final Checklist (Step 12.) below.
- Instruct customer on functions and operation of the heater and remote control.
- Ensure the customer understands the content of this manual.



Advise the customer that during the initial burning period of approximately 2 hours, some smoke and smell may be experienced. During this period the heater should be operated on 'High' and the space being heated should be well ventilated.

- For protection of young children or the infirm a secondary guard is required.
- Ensure this Operation and Installation manual is left with the customer.



Ensure the Customer understands that:
No part of this appliance should be permanently removed.
Paper or other material must not be burnt in this appliance.
Young children and the infirm should be supervised at all times.

12. FINAL CHECKLIST

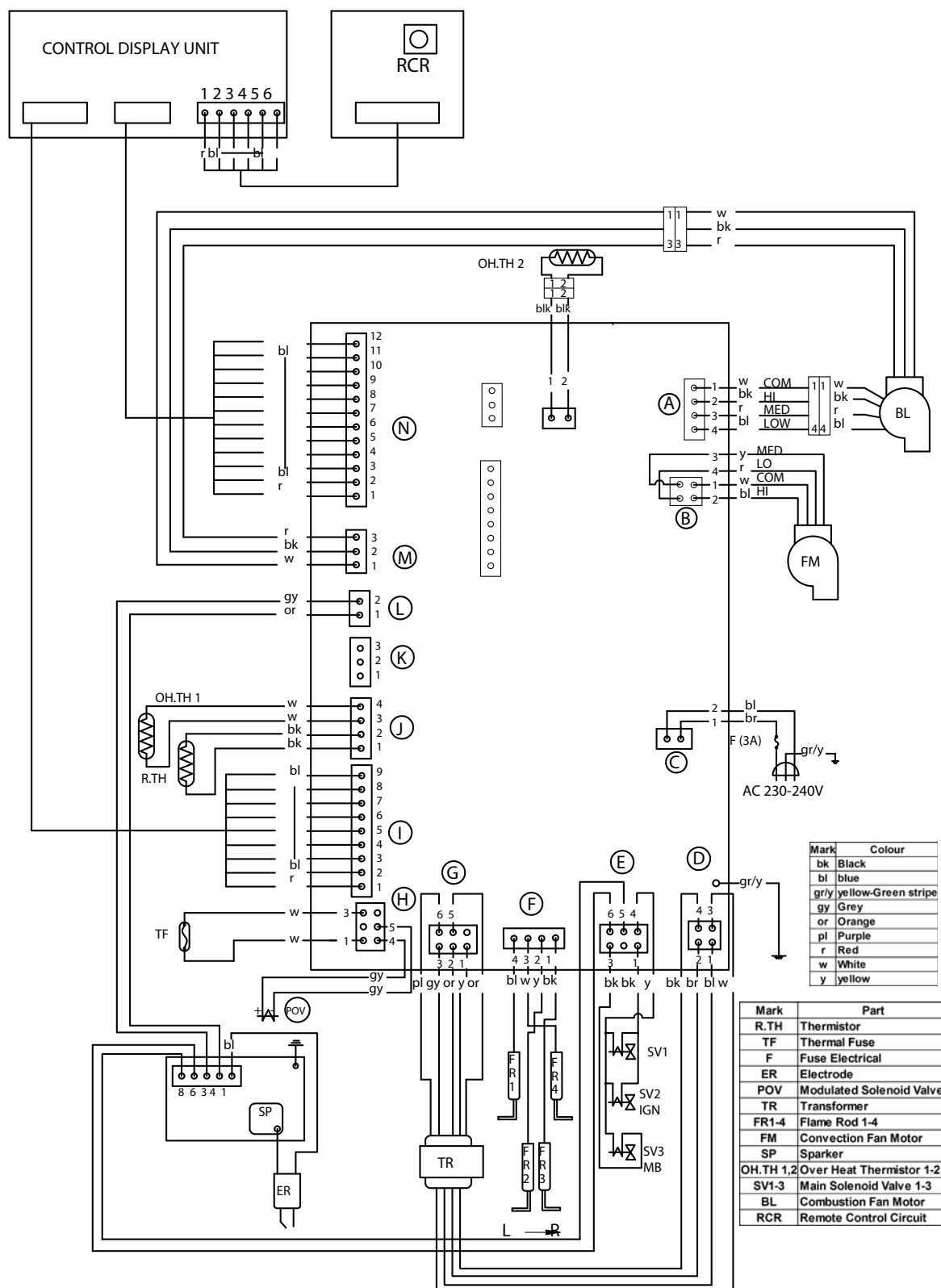
(To be completed by certified Gas Installer)

NO / YES

1. Appliance positioned in a suitable location (clearances, combustible clearances, mantels and surrounds etc).	<input type="checkbox"/>	<input type="checkbox"/>
2. Is a Rinnai approved flue system installed & tested in accordance with the instructions?	<input type="checkbox"/>	<input type="checkbox"/>
3. Gas pressure checked and set?	<input type="checkbox"/>	<input type="checkbox"/>
4. Has the burner media been installed as per instructions?	<input type="checkbox"/>	<input type="checkbox"/>
5. Appliance tested for correct operation and to ensure no gas leaks?	<input type="checkbox"/>	<input type="checkbox"/>
6. Customer instructed on operating procedure and safety requirements	<input type="checkbox"/>	<input type="checkbox"/>
7. Is the end-user fully aware of operating procedure?	<input type="checkbox"/>	<input type="checkbox"/>

TECHNICAL INFORMATION

WIRING DIAGRAM



NOTES

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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 requires service, please call our National Help Service Line. Rinnai recommends that this appliance be serviced every 2 years.

Internet: www.rinnai.com.au E-mail: enquiry@rinnai.com.au

National Help Lines

Spare Parts & Technical Info

Tel: 1300 555 545*

Fax: 1300 300 141*

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