

Rinnai

REFERENCE GUIDE



Heating

Experience Our Innovation



CONTENTS

- 02 Introduction
- 04 Range Overview

SELECTING THE RIGHT HEATER

- 06 Heater selector
- 07 Important tips

FEATURES

- 08 Generic heating features and functions

SPECIFICATIONS

- 10 Portable Heaters
- 11 Flued Heaters
- 12 Gas Log Flame Fires

FLUEING

- 13 Aspiration Gas Log Flame Fire
Symmetry Gas Log Flame Fire
- 14 Royale Gas Log Flame Fire
Slimfire Gas Log Flame Fire
- 15 Sapphire Gas Log Flame Fire
Energysaver® Power Flueing

OTHER

- 16 Service & Warranty

Experience our Innovation

For 40 years Australians have been enjoying the comfort, convenience and reliability of Rinnai gas appliances. Our innovative products are designed with the environment in mind, with low emission technology and high efficiencies, as well as a host of other great features.

Rinnai is committed to ongoing innovation - delivering efficient, well designed and engineered lifestyle solutions offering a host of benefits including ambience, versatility, control and reliability. Backed with extensive warranties and after sales service teams, Rinnai is proud to be the No.1 choice for gas space heating in Australia

Through innovation, we will endeavour to continue offering superior ranges of home appliances that provide a clear insight into what the future holds for Australian homes.

About this Brochure

This 'Heater Reference Guide' is to be used in conjunction with the consumer brochure. The contents of this brochure are more of a technical nature and it has been produced in relevant technical sections rather than by specific product pages as in the consumer brochure.

It is designed to be a quick reference guide to questions that may be asked to ensure selection of the correct Rinnai heating appliance for an application. If you need to find a dimension you go to the specification tables, if you need to find what a specific feature is, you go to the features and functions pages where all features of all heaters are listed.

Need additional help?

Please contact the Rinnai HelpLine on 1300 555 545
Monday to Friday 8.00am – 5.30pm EST

Associations & Certificates





Range Overview - Portable Heaters

Portable Heaters are a highly efficient low cost and flexible home heating alternative. They require no installation and can be stored away when not used. There are 3 forms of heating available - Radiant heat, Convection heat and combined Radiant and Convection heat.

Convectors

- Convection heat
- Advanced low emission burner technology
- Fully thermostatic set'n'forget operation
- Easy to use as a manual or programmable appliance

HANDY HINT

Best positioned away from you for most comfortable operation
Cool to touch cabinet allows it to be positioned closer to furniture
Fan assisted warmth circulates around the room



Radiants

- Radiant heat
- Ideal for spot heating - feel the warmth
- Simple battery ignition - no need for a power point
- Simple & easy to operate manual settings

HANDY HINT

Must be positioned closer to you as there is no fan
Needs to be kept away from furniture



Radiant Convectors

- Radiant and Convection heating
- High efficiency powerful heaters
- Easy operation - manually adjustable for comfort

HANDY HINT

Best of both heating types - Radiant & Convected warmth
Circulates heat throughout your room



Important Installation Guidelines - Portable Heaters

The installation of Portable gas heaters is restricted in some States of Australia. Restrictions sometimes include:

- Minimum room sizing (volume of room in cubic metres)
- Minimum ventilation requirements
- Limited to a certain gas type (Victoria LPG only)
- Maximum heater size 18 MJ's on Natural Gas and 25 MJ's on LPG (South Australia)
- Maximum 2.5ng/J NO₂ emissions (Victoria)
- Not permitted in new installations/homes (Victoria)

Some other key points that should be noted include:

- Portable gas heaters cannot be installed in bedrooms, bathrooms or hallways
- The gas hose & power cord cannot be positioned through a doorway into an adjoining room
- Portable heaters cannot be operated from an LPG gas cylinder in the same room
- It should be noted that minimum room sizing varies between thermostatically controlled Convectors and manually controlled Radiant heaters
- All installation of bayonet points, room sizing & ventilation is to be in accordance with the Australian Standard AS5601 – Gas Installations

Range Overview - Flued Heaters

Flued Heaters utilise flueing to ensure there are no indoor emissions. They can offer powerful heat output and there are many energy efficient product varieties. Flued heaters utilise 2 forms of heating - Convection heat or Radiant and Convection heat.

Gas Log Flame Fires

- Radiant and Convection heat
- Powerful heaters that enhance the feel of a home
- Variety of styles and flueing options
- Freestanding, Inbuilt & False Fireplace options



HANDY HINT

Sizing is really only critical if the Gas Log Fire is the primary heating source. If required for a decorative look only – select a model with a Flame feature only or Flame Override button

Energysavers

- Convection heat
- Highly energy efficient with full set'n'forget operation
- Powerful 'room-sealed' heaters for optimum indoor air quality
- Range of sizes with flexible power flue installation options



HANDY HINT

**Great option for those who are sensitive to air quality
Humidifier tray offers the ability to enhance indoor air comfort**

Flued Space Heaters

- Radiant and Convection heat
- Powerful heat output in both thermostatic or manual operation models
- Suits standard 'off the shelf' flueing – supplied by the installer



HANDY HINT

Offer cosy radiant warmth whilst still providing the benefit of convected heat. Ideal for replacement of older space heaters – easy changeover

Important Installation Guidelines - Flued Heaters

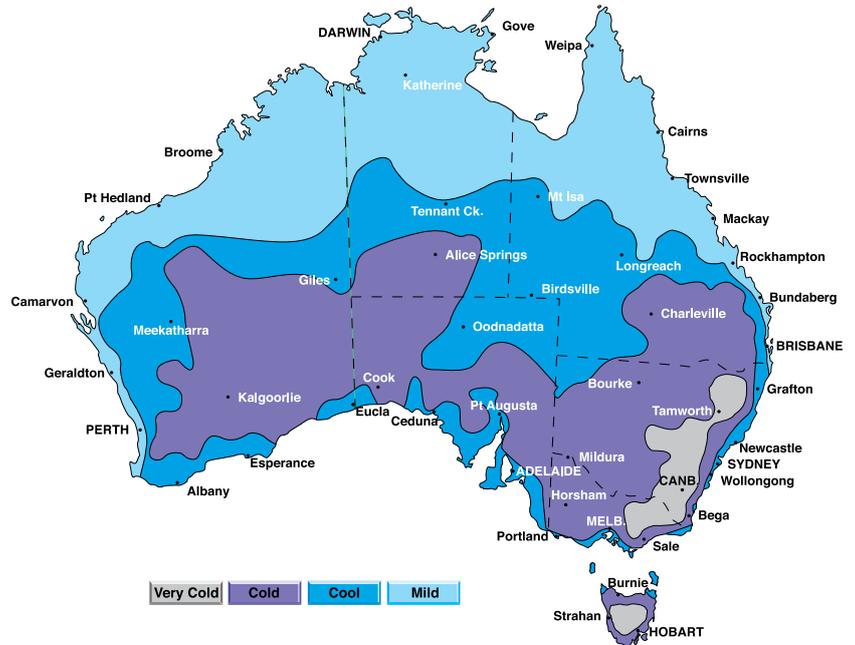
All Flued gas heaters must be installed by a licensed plumber/gas fitter.

Other guidelines for Flued heaters include:

- It is mandatory to use Rinnai proprietary flueing for all Rinnai Energysaver® & Gas Log Flame Fire heaters. Use of unauthorised flueing will not only compromise performance and void warranty, but could have serious safety related consequences
- All Flued Space Heaters (Ultima II, Spectrum & 2001) use standard 'off-the-shelf' flueing components supplied by the installer
- Room sizing is only dependant on the heat load required
- If in doubt, it is best to slightly oversize a Flued Heater and let the thermostat do its work
- Installation of Flued Heaters is limited to the flexibility of the flueing system and therefore heaters cannot always be positioned where desired
- Some States of Australia require that a certificate of compliance is given to the end-user for both new and changeover installations
- All installations of Flued gas heaters must comply with the Australian Standard AS5601 – Gas Installations

step 1 climate

Pictured on the right is a climate map of Australia that shows four winter climate zones relevant to Rinnai Heaters; Mild, Cool, Cold and Very Cold. It is important that you choose the correct zone that suits an application, as it directly relates to the performance of the heater. Detailed State maps can be found on the 'heater selector' page of our website: www.rinnai.com.au.



step 2 heating area

It is also important that you consider the size of the heating area. This includes adjacent rooms through permanently open doorways and hallways. On pages 10-12 you will find the approximate maximum area that the unit will heat based on the climate zones (ie. Step 1).

Calculate your selected Rinnai Heater's Capacity			
1. Selected Heater		4. 'Heats up to' Capacity (see specifications)	m ²
2. Climate/Zone		5. Less Heat Loss (see specifications)	%
3. Total area you are going to heat (length x width)	m ²	6. Adjusted Capacity	m ²

↑ Your area should be less than the Adjusted Capacity ↑

step 3 heat loss

Not all homes will have all of the features listed in the table to the right. Consequently, this will affect the heating capacity. Place a ✓ alongside each of the design features if they are relevant to your home. Everywhere there is a ✓, an adjustment to the 'Heats up to' capacity will need to be made.

Please note that this is only a guide and individual house designs and locations may vary.

Contact the Rinnai Helpline if you require further assistance 1300 555 545.

Heat Loss Factors		Deduct	Example
<input checked="" type="checkbox"/> No Ceiling Insulation	-10%	_____ %	
<input type="checkbox"/> House built on stumps (not a slab)	-5%	_____ %	-5%
<input type="checkbox"/> No carpets on floors	-5%	_____ %	-5%
<input type="checkbox"/> No drapes on windows	-5%	_____ %	
<input type="checkbox"/> Uncurtained window area exceeding 15.0m ²	-10%	_____ %	
<input type="checkbox"/> Ceiling height exceeding 2.4m			
<input type="checkbox"/> If Yes, height 2.5 - 2.8m	<input type="checkbox"/> -3%	_____ %	
	2.8 - 3.0m	<input type="checkbox"/> -5%	_____ %
	3.0m +	<input type="checkbox"/> -7%	_____ %
<input type="checkbox"/> Reversible Ceiling Fan (positive)	+5%	_____ %	
<input type="checkbox"/> HEAT LOSS FACTOR	TOTAL	_____ %	-10%

As an example, you wish to purchase a Slimfire gas log flame fire, live in the 'Cool' zone, and have an area to heat of 65m². The recommended 'Heats up to' capacity for this model is 68m², however you also have no carpets on the floor and a house built on stumps. The heat loss total percentage is -10% (-5% + -5% = -10%) which is deducted from the 68m² (the capacity of your heater) as a % to reduce it to 61m². This will no longer heat your desired 65m². The next model up is the Royale Inbuilt with a 'Heats up to' capacity of 93m², less the 10% heat loss = 84m², which will adequately heat the area.

**calculate on-line
in 3 easy steps**

Important Tips for heater selection

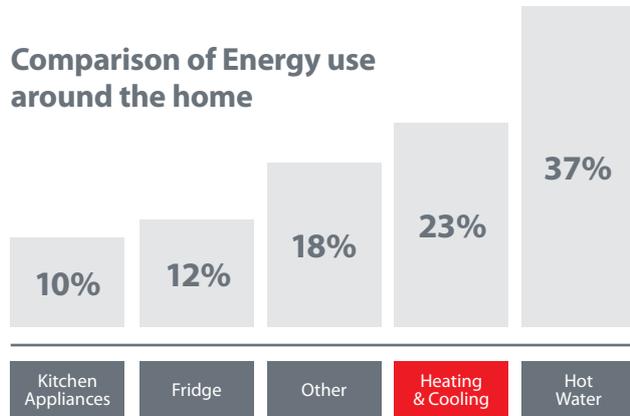
Energy Star Ratings

Energy Star ratings are an industry wide independent rating that gives an indication of how efficiently a heater operates... the more stars the greater the efficiency. Typically Portable gas heaters have around 5.9 Stars with the majority of flued heaters around 4.0 to 4.5 Stars. Some older type heaters are not as efficient, however they still perform extremely well with large heat outputs.

The Environment

In Australian homes, heating & cooling amounts to around 23% of household energy use – second only to hot water. Gas is one of the most greenhouse friendly fuel sources available and selection of a Rinnai gas heater can assist with our global need to reduce carbon emissions. In addition, the better insulated your home, the less work the heater needs to do, the less gas you will use and the less impact on the environment.

Comparison of Energy use around the home



Source: Department of Environmental & Climate Change NSW

Heating Sizing

It is very important that careful consideration is given to selecting the correct model/size of any heater. Critical factors such as the area to be heated, along with specific design and insulation characteristics of a home must all be considered. On the opposite page there is a heater selector relating to correct sizing or you can use our on-line version at www.rinnai.com.au.

In general heater sizing should be based on the kW output of the heater. As a very rough guide to heating performance (based on our heating zones):

Very Cold Zone:	1 kW output will heat approx 8.5m ²
Cold Zone:	1 kW output will heat approx 10m ²
Cool Zone:	1 kW output will heat approx 13m ²
Mild Zone:	1 kW output will heat approx 16m ²
i.e. a 7.3 kW output heater in a Cool Zone will heat approx 95m²	

HANDY HINT

The MJ input of heaters should not be used for comparison. The kW output is the only true 'apples for apples' method.

As an example, a 25MJ input, 5.9 Star heater has a larger heat output than a 25MJ 3.1 Star heater.

Running Costs

Rinnai gas heaters are designed to be highly efficient, and when used correctly, are a very economical form of home heating. The running cost of gas heaters compare very well to other forms of heating. Straight electric heating is by far the most expensive, with both gas heaters and electric reverse cycle heaters comparatively less expensive.

When comparing differing forms of heating in relation to running costs, it is important that the comparison is based on the same kW output of heat. Once we are comparing 'apples with apples', the calculation of the running cost is then based on the energy used (kW input) to achieve that output. The actual tariffs that are charged are listed on energy bills.

Generic Heating Features & Functions

There are many differing features that are available with Rinnai gas heating appliances. The following pages give an overview of each feature, the benefits gained and a brief explanation of how they work. For a specific list of which features apply to a particular product, please refer to the specifications starting on page 10.

Thermostatic Heat Control

Often referred to as set'n'forget, thermostatic control means that the heater will modulate up and down to ensure a set temperature is maintained, for greater comfort.

Manual Heat Control

This applies to heater models that have a number of predetermined settings that you can select from. Some heaters have a Low/Med/High option while others can have up to 6 manual settings.

Timers

Models with timers have one of the following:

Dual Weekday & Weekend Timers

Set the heater to come on and off in the mornings & evenings for the weekdays Monday to Friday. Additionally, different times can be set for the weekend when people prefer to get up a little later.

Dual Timers

Set the heater to come on and off in the mornings & evenings (or any other selected dual periods). Timers are set separately allowing you to operate with both, just one or none at all.

Multiple Timers (4 Periods)

Where 4 periods per day can be set at varying temperatures. Ideal for mornings when waking and coming home of an evening, with the other 2 periods usually set as a minimum desired temperature during the day and overnight. In addition, each day of the week can have a different setting, making these timers the most flexible available

Delay ON Timer

This is a countdown timer that allows you to select in how many hours/minutes you wish the heater to switch on. It allows you to select up to 9 ½ hours in 30 minute increments or up to 24 hours in 60 minute increments. Delay ON timer is typically set before going to bed and when leaving in the morning to come on when you get up and return from work.

Delay OFF Timer

This is also a countdown timer but the set period is fixed at either 30 or 60 minutes. Once activated the heater will automatically shut off after this period. Typically used in the mornings when people get out of bed, it ensures that if they rush out the door they won't leave the heater on all day!

Delay Timer (FDT)

This feature is only available with the "FDT" range of Energysaver Power Flued heaters and is usually only used for commercial application such as schools etc. Factory ordered & preset, the delay timer automatically shuts the heater off after a predetermined (programmed) time of either 1, 2, 3, 6, 8, 10 or 12 hour intervals. As an additional feature, a central relay timer can be programmed to operate multiple heaters.

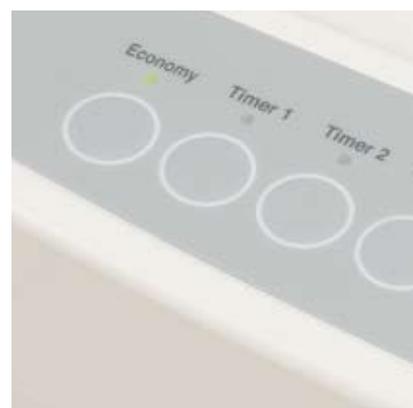
Please contact Rinnai on 1300 555 545 for further information on Delay Timer (FDT) programming

Preheat Feature

This function will automatically operate the appliance before the programmed start time of the timer, in order to heat a room to the pre-set temperature by the programmed start time. This means that the heater may activate up to 1 hour prior to the programmed start time.

Economy Button

The Economy (ECON) function is an energy saving feature. It gradually reduces the heat settings once the room has maintained the set temperature for a period of 1 hour. Many people operate heaters at a higher temperature initially when they are cold, but forget to turn them down later.



Auto Off Button

The auto-off feature found on some of our Gas Log Flame Fires, Energysavers® and Space Heaters is only relevant when the minimum heat setting of the heater still has too much heat output to maintain the set temperature. If the auto-off button is activated, the heater would turn off rather than continue to heat the room above the set temperature. In simple terms, the auto-off needs to be activated (displayed) in order for the heater to be fully thermostatically controlled.

Override Button

The override button is only used when a heater has programmed timers set. It allows you to manually activate the heater outside of the programmed times without disruption to the settings (i.e: if someone comes home early from work/school).

Flame Button

The Flame button is only found on selected Gas Log Flame Fires and it allows the user to override the thermostat and maintains a constant flame picture. Basically it is used when just the ambience of a fire is required.

Child Lock or Lock Button

A feature that ensures that little wandering hands cannot activate or play with the heater. If the lock is activated when the appliance is turned OFF then all functions are locked. If the lock is activated when the heater is in operation, then only the OFF button will function. There are two types of child lock activations:

1. Single button which must be held down for about 3 seconds until there is a beep
2. Some models require the user to push 2 buttons simultaneously to lock and unlock the feature

Either method is difficult for young children to accidentally activate.

Lockable Panel

The commercial Energysaver® FDT models have a key lockable control panel lid. This is primarily to ensure that programmed times and/or temperature settings are not adjusted by the public.



Filter Indicator Light

When the fan filters become covered with dust, the filter indicator will flash. The filters on all heaters should be vacuumed at regular intervals to optimise heating effectiveness.

Additional Safety features

Over heat switch

When the heater gets too hot during operation (for example when the filters or air outlet louvres are blocked) this device turns the gas off automatically

Flame failure sensor

This device automatically cuts off the gas supply to the heater in the event of a gas failure

Oxygen depletion sensor

If the oxygen level in the room drops below a pre-set limit, this device cuts the gas supply to the heater. This feature is standard with all portable heaters.

Tilt switch

Only found on portable heaters, the tilt switch will immediately cut the gas supply if the heater is accidentally knocked over. For additional safety, the fan will continue to operate ensuring the heater is cooled as well.

Power failure

In the event of a power failure or power cut, the gas valves on thermostatic models will automatically close and shut off the gas supply.

Portable Heating Specifications

Model		Avenger 25Plus (Gas & Electric)	Capella 18Plus (Gas & Electric)	Avenger 25	Dynamo 15	Enduro 13	Econoheat 850	Cosyglow 650	Granada 252	Titan 151
										
Dimensions (mm)	H	570	570	485	495	495	410	405	540	540
	W	610	610	610	490	490	505	440	620	620
	D	245	245	245	245	245	250	250	220	220
Colours		White or Platinum Silver					Platinum Silver		Off White or Platinum Silver	
Gas Type		Available in both Natural Gas and LPG								
Low NOx		Yes	Yes	Yes	Yes	Yes	No	No	No	No
Gas Hose Length (mm)		1500								
Electric Cord Length (mm)		1500					No cord		1500	
Gas Input MJ/h	Low	8.5	8.5	8.5	6.0	6.0	7.0	5.5	8.0	7.5
	High	25	18	25	15	13	15	11	25	15
kW Output		8.2	6.6	6.2	3.8	3.3	3.5	2.9	6.0	3.7
'Heats up to' Capacity (m ²)	Very Cold	70	55	53	32	28	31	23	52	31
	Cold	83	66	63	38	33	35	28	57	34
	Cool	113	89	85	52	45	47	37	76	46
	Mild	128	102	97	59	51	54	42	87	53
AS4553 Efficiency Star Rating		5.8	5.8	5.8	5.8	5.8	5.9	5.9	5.9	5.9
AS4553 Emissions Star Rating NG/LPG		3.8/3.5	4.6/4.1	3.8/3.5	3.8/3.5	3.6/3.5	2.8/3.0	2.1/2.1	2.3/2.5	2.0/1.6
Thermostatic or Manual Control		Thermostatic					Manual 2 Settings	Manual 2 Settings	Manual 3 Settings	Manual 2 Settings
Dual Weekday & Weekend Timers		Yes	Yes							
Dual Timers				Yes	Yes					
Delay ON Timer						Yes				
Delay OFF Timer (60 Minute)						Yes				
Preheat Feature		Yes	Yes	Yes	Yes					
Economy Mode		Yes	Yes	Yes	Yes	Yes				
Auto Off Mode		Yes	Yes							
Override Button		Yes	Yes	Yes	Yes					
Child Lock or Lock Button		Yes	Yes	Yes	Yes	Yes				

240V power is required with all models with the exception of Radiant only heaters. A power cord & plug are fitted.
 Dimensions are subject to production tolerances and may vary slightly from those given.
 Rinnai Australia Pty. Ltd. Reserves the right to make modifications and change specifications without notice.
 We will however endeavour to communicate any major changes well before implementation.

Flued Heating Specifications

Model		Energysaver®						Ultima II		2001		Spectrum	
		309FT	556FDT	559FT	557FTR	1004FTR	1004FDT	Inbuilt	Console	Inbuilt	Console	Inbuilt	Console
													
Dimensions (mm)	H	695	554	582	750	670	670	653	653	650	650	650	650
	W	465	750	760	550	930	930	910	910	910	910	910	910
	D	257	250	257	250	330	330	164	404	125	302	125	302
Inbuilt Cavity Dimensions (mm)	H	-	-	-	-	-	-	605-635	-	605-635	-	605-635	-
	W	-	-	-	-	-	-	710-805	-	710-805	-	540-805	-
	D	-	-	-	-	-	-	Min. 330	-	Min. 270	-	Min. 270	-
Colours		White	White	White	White or Silver	White		Beige or Gunmetal		Beige or Brown			
Gas Type		NG/ LPG	NG Only*	NG/ LPG	NG/ LPG	NG/ LPG	NG Only*	NG/ LPG		NG Only*			
Gas Input MJ/h	Low	6	9	9	9	11	11	15		15		7	
	High	13	23	23	23	37	37	30		30		28	
kW Output		2.9	5.4	5.2	5.4	8.6	8.6	7.0		5.2		5.2	
'Heats up to' Capacity (m ²)	Very Cold	27	47	47	47	75	75	59		45		41	
	Cold	32	56	56	56	89	89	70		53		49	
	Cool	42	74	74	74	119	119	95		70		65	
	Mild	49	85	85	85	138	138	109		81		75	
AS4553 Efficiency Star Rating		4.6	4.3	4.3	4.2	4.3	4.3	4.4		1.0		2.1	
AS4553 Emissions Star Rating NG & LPG		6.0	6.0	6.0	6.0	6.0	6.0	6.0		6.0		6.0	
Thermostatic or Manual Control		Thermostatic										Manual 3 Settings	
Dual Timers		Yes		Yes	Yes	Yes							
Delay Timer (FDT)		Yes	Yes	Yes			Yes						
Dual Weekday & Weekend Timers								Yes	Yes				
Preheat feature		Yes		Yes	Yes	Yes		Yes	Yes				
Economy Mode		Yes		Yes	Yes	Yes		Yes	Yes				
Auto Off Mode		Yes											
Override Button		Yes		Yes	Yes	Yes		Yes	Yes				
Child Lock or Lock Button		Yes	Key	Yes	Yes	Yes	Key	Yes	Yes				

* LPG conversions are available at an additional cost and are made to order

240V power is required with all models and a power cord & plug is fitted. In most cases this cord is on the right hand side.

To hide the power cord, it is permissible to have the unit 'hardwired' behind wall cavities as long as it is in accordance with the Standard AS/NZS3000 and done by a qualified electrical tradesperson such as an electrician. In short, this means that it must be wired with an accessible double pole isolation switch.

Dimensions are subject to production tolerances and may vary slightly from those given.

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Gas Log Flame Fire Specifications

Model		Aspiration		Symmetry	Royale ETR		Slimfire	Sapphire			
											
Style		Slimline Metal	Radius Glass	Inbuilt	Free-standing	Inbuilt	Inbuilt	Masonry	Zero Clearance	Console	Plinth
Visual Dimensions (mm)	H	675	675	640	755	695	645	660	660	760	837
	W	900	900	1110	650	910	750	865	865	865	865
	D	90	126	13	560	167	335	462	462	425	425
Inbuilt Cavity Dimensions (mm)	H	660	660	845	N/A	595-675	550-630	600	650	N/A	N/A
	W	860	860	1100-1125	N/A	600-800	595-700	695	800	N/A	N/A
	D	450*	450*	Min 600	N/A	Min. 405	Min. 360	370	420	N/A	N/A
Colours		Metallic Black or Stainless Steel	Black	Black	Metallic Black	Metallic Black	Metallic Black or Stainless Steel	Black outer frame with Stainless Steel inner frame			
Gas Types		NG Only [#]		NG Only [#]	NG/LPG			NG/LPG			
Gas Input MJ/h	Low	8	8	19	8	8	7.7	14	14	14	14
	High	31.5 [†]	31.5 [†]	33	35	33	25	30	30	30	30
kW Output		6.0	6.0	7.5	7.4	6.6	5.0	6.97	6.97	6.97	6.97
'Heats up to' Capacity (m ²)	Very Cold	47	47	67	66	58	42	60	60	60	60
	Cold	56	56	80	79	69	50	70	70	70	70
	Cool	74	74	108	106	93	68	95	95	95	95
	Mild	85	85	124	122	109	77	108	108	108	108
AS4553 Efficiency Star Rating		4.0 ^{††}	4.0 ^{††}	4.2	2.5	2.6	2.8	4.1	4.1	4.1	4.1
AS4553 Emissions Star Rating NG & LPG		6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Thermostatic or Manual Control		Thermostatic					Manual 3 Settings	Manual/Remote Thermostat*			
Dual Timers		Yes	Yes		Yes	Yes					
Multiple Timers (4 Periods)				Yes				Yes, with optional remote control			
Preheat Feature		Yes	Yes		Yes	Yes					
Auto Off Mode		Yes	Yes	Yes	Yes	Yes		Yes**	Yes**	Yes**	Yes**
Override Button		Yes	Yes		Yes	Yes					
Flame Function		Yes	Yes		Yes	Yes		Yes**	Yes**	Yes**	Yes**
Child Lock or Lock Button		Yes	Yes		Yes	Yes					

Please note:

[#]Lpg conversions are available at an additional cost and are made to order

^{*}Suitable for direct, vertical or horizontal flueing. 500mm required for down and out flue applications. See installation instructions for full details

[†]31.5 MJ/h when installed with a direct flue. Gas input 28MJ/h when installed with an extended flue

^{††}4.0 Stars when installed with a direct flue. Increases to 5.2 Stars when installed with an extended flue

[‡]4.0 Star Rating when installed in a sound brick or masonry fireplace without a flue

240V power is required with all models and a power cord & plug is fitted. In most cases this cord is standard on the right hand side of the appliance. The Royale & Slimfire Flame Fires also allow you to have the electrical cord on either the right or left hand side.

To hide the power cord, it is permissible to have the unit 'hardwired' behind wall cavities as long as it is in accordance with the Standard AS/NZS3000 and done by a qualified electrical tradesperson such as an electrician. In short, this means that it must be wired with an accessible double pole isolation switch.

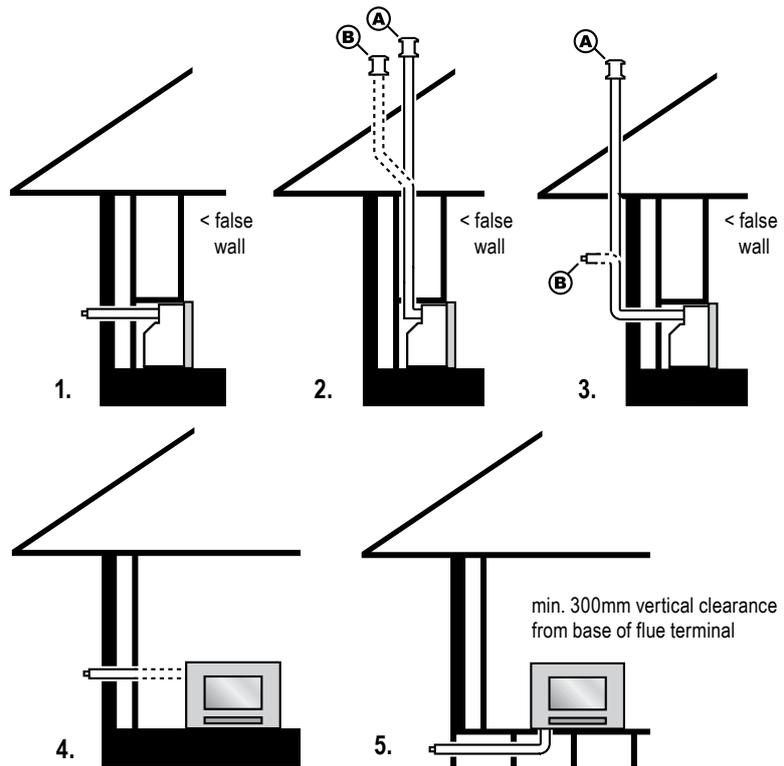
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Flueing

Aspiration Gas Log Flame Fire Power Flueing

	Description	Order Code
1	Direct Flue Kit	ASPDFK
2A	Vertical 'On Wall' Kit* Co-Ax Pipe 900mm [†] Roof Cowl	ASPKIT03 ESPIPE900 ESROOFCOWL
2B	Vertical 'On Wall' Kit* Co-Ax Pipe 900mm [†] Bend (2 x 45°) Roof Cowl	ASPKIT03 ESPIPE900 ESBEND ESROOFCOWL
3A	Direct Flue Kit Co-Ax Pipe 900mm [†] Bend (2 x 45°) Condensate Trap Roof Cowl	ASPDFK ESPIPE900 ESBEND ESCONDK ESROOFCOWL
3B	Direct Flue Kit Co-Ax Pipe 900mm [†] 2 Sets of Bends (2 x 45°) Condensate Trap Wall Terminal Kit	ASPDFK ESPIPE900 ESBEND x 2 ESCONDK ESWTKIT
4	Vertical 'On Wall' Kit* Co-Ax Pipe 900mm [†] Wall Terminal Kit	ASPKIT03 ESPIPE900 ESWTKIT
5	Vertical 'On Wall' Kit* Co-Ax Pipe 900mm [†] Bend (2 x 45°) Wall Terminal Kit	ASPKIT03 ESPIPE900 ESBEND ESWTKIT



Fascias	Order Code	Fascias	Order Code	Installation Clearances
Slimline Metallic Black Fascia	FLFASPFBB	Radius Glass Black Fascia	FLFASPFBBG	Sides of appliance 100mm
Slimline Stainless Steel Fascia	FLFASPFSS			Above appliance 250mm
				In front 1000mm

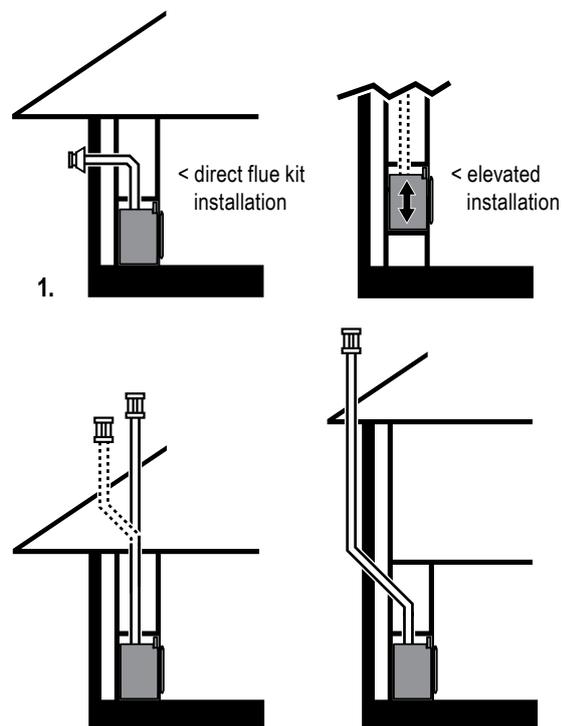
*includes condensate trap †order lengths as required

Symmetry Gas Log Flame Fire

The Direct Flue Kit covers the majority of installations. Separate components are available for other installations as shown.

Description	Order Code
1. Direct Flue Kit	SYMDFK
Individual Components	
90mm Flue Length	RDV903
230mm Flue length	RDV907
300mm Flue length	RDV906
600mm Flue length	RDV904
1200mm Flue length	RDV902
275-370 (adjustable) Flue length	RDV911B
90° Elbow	RDV990G
45° Elbow	RDV945G
High Wind (Roof) Terminal Cap	RDV991
Square Horizontal (Wall) Cap	RDV984

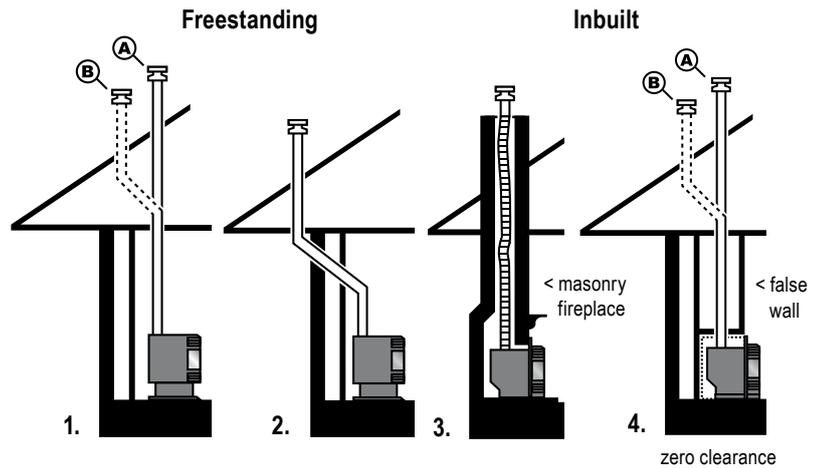
Installation Clearances	
Sides of appliance	400mm
Above appliance	400mm
In front	1000mm



Symmetry flueing combinations vary for each installation. Please refer to the installation instructions or online at www.rinnai.com.au

Royale ETR Gas Log Flame Fire

	Description	Order Code
1A	Vertical Twin Skin Flue Kit (3.6m)	FLFKIT05*
1B	Vertical Twin Skin Flue Kit (3.6m) Twin Skin Offset	FLFKIT05* FLFBEND*
2	Thru-wall Twin Skin Flue Kit (3.6m) inc. 1x900mm Powder Coated & 3x900mm Galvanised Twin Skin Flues, Cowl & Wall Penetration Kit	FLFKIT03*
3	Flexiliner Flue Kit (5.0m)	FLEXLINER05
4A	Vertical Twin Skin Flue Kit (3.6m)	FLFKIT05B
4B	Vertical Twin Skin Flue Kit (3.6m) Twin Skin Offset	FLFKIT05B FLFBENDB



Inbuilt Zero Clearance Frame Dimensions (See installation instructions for full details)	745mm H x 810mm W x 440mm D (min.)	Metallic Black Zero Box	ZEROR1
		Titanium Zero Box	ZEROR2T

Freestanding Accessories	Order Code	Inbuilt Accessories	Order Code
450mm Twin Skin Flue	FLF0450M*	Flue Adaptor Plate	FLFAD
900mm Twin Skin Flue	FLF0900M*	50mm Plinth	FLFRP*
45° Twin Skin Offset	FLFBEND*	45° Twin Skin Offset	FLFBENDB
900mm Galvanised Flue Ext Twin Skin	FLFEXT03	40mm External Top Surround (Black Only)	FLFRSEXTB

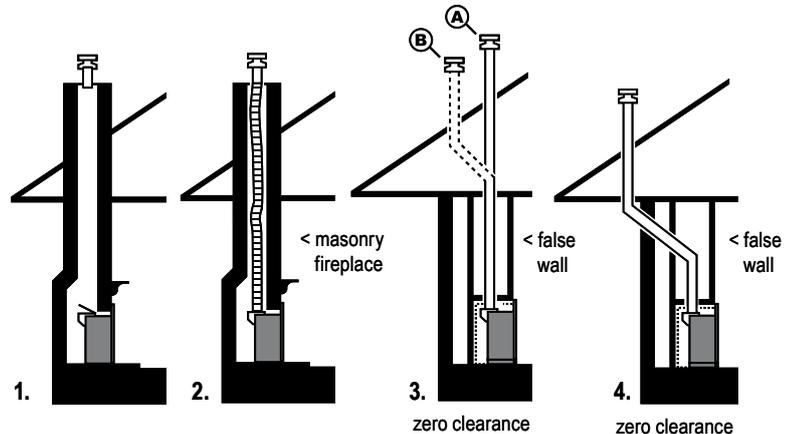
Installation Clearances	
Sides of appliance	400mm
Above appliance	400mm
Back of draft diverter	100mm
In front	1000mm

For Thru-Wall double storey applications, please order the 3.6 metre Thru-Wall Twin Skin Kit (FLFKIT03) and additional lengths of 900mm Galvanised Flue Extensions (FLFEXT03) as required

*Nominate Metallic Black or Titanium

Slimfire Gas Log Flame Fire

	Description	Order Code
1	No Flue	N/A
2	Flexiliner Flue Kit	FLEXLINER03
3A	Vertical Twin Skin Flue Kit	FLFKIT05
3B	Vertical Twin Skin Flue Kit Twin Skin Offset	FLFKIT05 FLFBEND
4	Vertical Twin Skin Flue Kit Thru-wall Twin Skin Flue Kit	FLFKIT05 FLFKIT03



Inbuilt Zero Clearance Frame Dimensions (See installation instructions for full details)	675mm H x 685mm W x 370mm D (min.)	Metallic Black Zero Box	ZEROS
		Titanium Zero Box	ZEROS2

Fascias	Order Code	Accessories	Order Code	Installation Clearances
Metallic Black Fascia	FLFSFB	Fluebox Adaptor	FLFAD1	
Stainless Steel Fascia	FLFSFSS	50mm Plinth (Masonry Fireplaces only)	FLFSP#	From sides of glass 300mm
		90mm Ext Top 3-sided Surround (Black only)	FLFSBEXT	In front 1000mm

Sided Fascia	
Inspiration 3 Sided Fascia - Duracote	INSP3FD
Inspiration 3 Sided Fascia - Black	INSP3FD
Inspiration 4 Sided Fascia - Duracote	INSP4FD
Inspiration 4 Sided Fascia - Black	INSP4FB

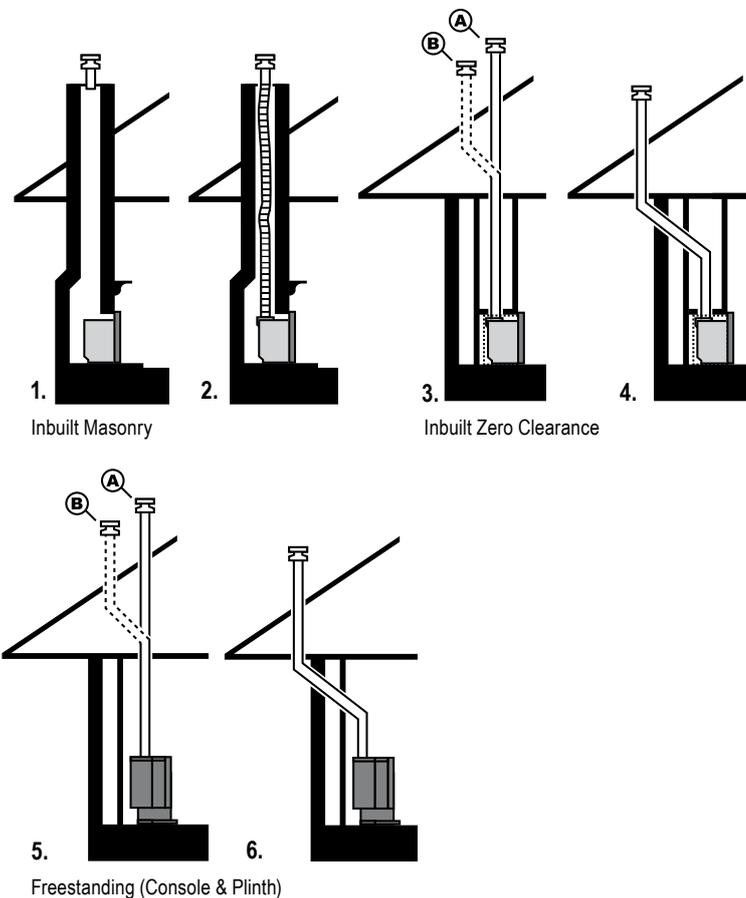
Mantles	
Inspiration Mantle - Cherry	INSPMC
Inspiration Mantle - Beech	INSPMB

Console Kit	
Extends protrusion of the Slimfire by 300mm. Kit includes sides, top and base plinth. All other components supplied by installing plumber	
Metallic Black Console Kit	FLFSCB
Stainless Steel Console Kit	FLFSCSS

*Nominate Metallic Black or Stainless Steel

Sapphire Gas Log Flame Fire

	Description	Order Code
Inbuilt	1 No Flue	N/A
	2 Flexiliner Flue Kit (5.0m)	FLEXILINER05
	3A Vertical Twin Skin Flue Kit (3.6m)	FLFKIT05G
	3B Vertical Twin Skin Flue Kit (3.6m) Twin Skin Offset	FLFKIT05G FLFBENDG
	4 Vertical Twin Skin Flue Kit Thru-wall Twin Skin Flue Kit	FLFKIT05G FLFEXT03BG
Freestanding	5A Vertical Twin Skin Flue Kit (3.6m)	FLFKIT05G
	5B Vertical Twin Skin Flue Kit (3.6m) Twin Skin Offset	FLFKIT05G FLFBENDG
	6 Vertical Twin Skin Flue Kit Thru-wall Twin Skin Flue Kit	FLFKIT05G FLFEXT03BG

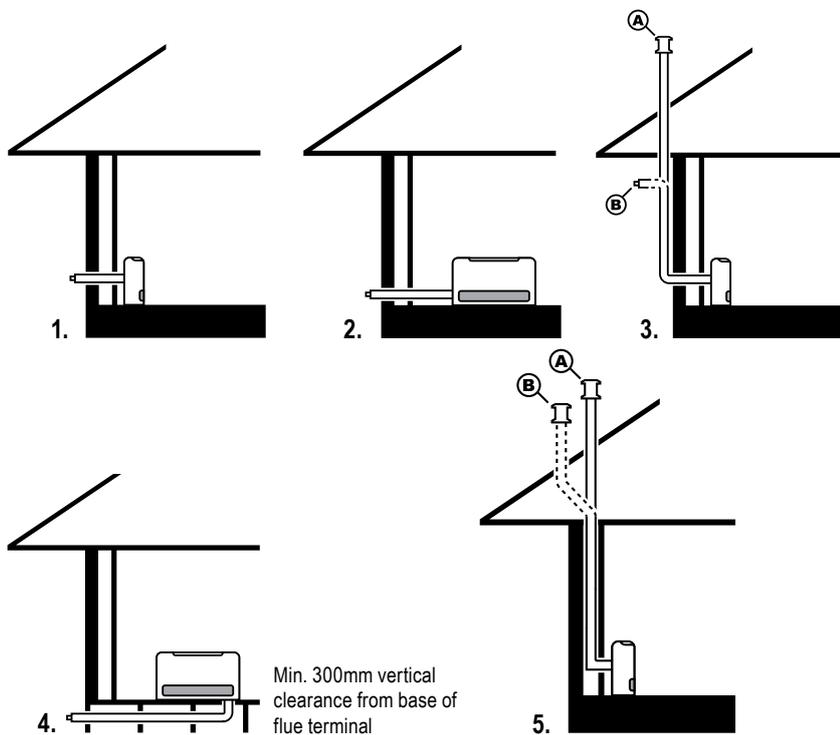


Accessories	Order Code
450mm Twin Skin Flue	FLF0450MG
900mm Twin Skin Flue	FLF0900MG
1200mm x 145mm Twin Skin Flue	FLFEXT03
Remote Control Accessory	SAPRM
Spigot Assembly (Zero Clearance & Freestanding)	SAPFSSA

Inbuilt Zero Clearance Cavity Dimensions	650mm H x 800mm W x 420mm D (min.)	Zero Box	SAPZEROLR
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Energysaver® - Power Flueing

	Description	Order Code
1	Direct Flue Kit	ESDFK
2	Direct Flue Kit Co-Ax Pipe 900mm* Wall Plate Back Spacer Kit	ESDFK ESPIPE900 ESPLATE See below right
	Direct Flue Kit Co-Ax Pipe 900mm* 90° Bend (2 x 45°) Condensate Trap Roof Cowl	ESDFK ESPIPE900 ESBEND ESCONDK ESROOFCOWL
3B	Direct Flue Kit Co-Ax Pipe 900mm* 2 x 90° Bends (4 x 45°) Condensate Trap Wall Terminal Kit	ESDFK ESPIPE900 2 X ESBEND ESCONDK ESWTKIT
4	Direct Flue Kit Wall Terminal Kit Co-Ax Pipe 900mm* 90° Bend (2 x 45°) Back Spacer Kit	ESDFK ESWTKIT ESPIPE900 ESBEND See below right
5A	In Wall Flue Kit Includes: Condensate Trap Roof Cowl 4 x Co-Ax Pipe 900mm	ESFKITIW
5B	Bends (2 x 45°) In Wall Flue Kit Includes: Condensate Trap Roof Cowl 4 x Co-Ax Pipe 900mm	ESBEND ESFKITIW



Back Spacer Kits*		
Model	Colour	Order Code
Energysaver 308	White	ESBSKA
Energysaver 556	White	ESBSKB
	Platinum Silver	ESBSKSB
Energysaver 557	White	ESBSKSC
	Platinum Silver	ESBSKSC
Energysaver 1004	White	ESBSKD
Optional Flue Guard		FGM01

Installation Clearances	
Sides of appliance	50mm
Above appliance	300mm
In front	1000mm

*Order lengths as required

#A Back Spacer Kit is required in all installations that are either sideways or down and out (2 & 4)

*includes condensate trap *order lengths as required

Rinnai Service - Need help with installation?

In most situations Rinnai retailers can assist with the installation of our appliances. Should this not be the case, Rinnai has an installation service available direct to the end-user.

Any gas installation, and in particular where flueing is also required, is a specialist process and requires trained professional installers to ensure safe and efficient operation of the appliance. Our Rinnai installers are not only very familiar with our products, but are fully insured and OH&S compliant. Be confident in your installation by employing Rinnai Service.

For further information, please call **1300 555 545**

Rinnai Heating Products Warranty

Table 1		Flued Heaters	Portable Radiant Heaters	Portable Convactor Heaters
		Ultima II, 2001 Spectrum Energysaver® Aspiration Sapphire Royale Slimfire Symmetry	Titan 151 Granada 252 Cosyglow 650 Econoheat 850	Avenger 25 Avenger 25Plus Capella 18 Capella 18Plus Dynamo 15 Enduro 13
Domestic Use	Heat Exchanger	10 years pro rata ⁽¹⁾	10 years pro rata ⁽²⁾	10 years pro rata ⁽³⁾
	Fan	2 years	3 years	5 years
	All other parts	1 year	3 years	5 years
	Free Labour	1 year	3 years	5 years
Commercial Use	Heat Exchanger	1 year	1 year	1 year
	Fan	1 year	1 year	1 year
	All other parts	1 year	1 year	1 year
	Free Labour	1 year	1 year	1 year

(1) Full replacement costs in the first year, reducing 10% per year thereafter

(2) Full replacement costs in the first 3 years, reducing 15% per year thereafter

(3) Full replacement costs in the first 5 years, reducing 20% per year thereafter

DEFINITIONS

Domestic use:

The warranty periods in the table above that are allocated under "Domestic Use" are based on the heating requirements of a typical domestic dwelling.

Commercial use:

The warranty periods that are allocated under "Commercial Use" are for applications other than domestic use and include premises such as commercial and industrial buildings, hotels, motels, caravan parks, cafes, schools and sporting complexes, but not limited to these.

Full warranty conditions including exclusions, are available with each appliance and can be viewed online at rinnai.com.au



RINNAI AUSTRALIA PTY. LTD

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10-11 Walker Street Braeside VIC 3195

For further information visit

www.rinnai.com.au or call 1300 555 545