Gas fireplaces
Specification guide

Rinnai

Important

Rinnai is constantly improving its products, and as such, information and specifications are subject to change without notice. For the most up-to-date information, go to www.rinnai.co.nz.

Help is here
For more information about buying, using, and servicing of Rinnai appliances call 0800 RINNAI (0800 746 624).

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Contents

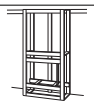
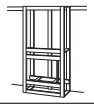
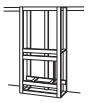
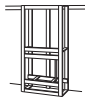
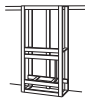
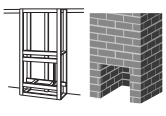
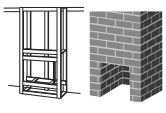
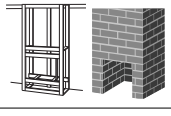
Product specification pages

Appendices

Servicing statement
Gas fires require regular maintenance and servicing. For reliable operation Rinnai gas fires should be serviced every two years, including inspection of the flue system.

Gas fireplace range

Rinnai gas fires are designed and made in New Zealand. Blending functionality and style, a Rinnai gas fireplace will be the focal point in any room.

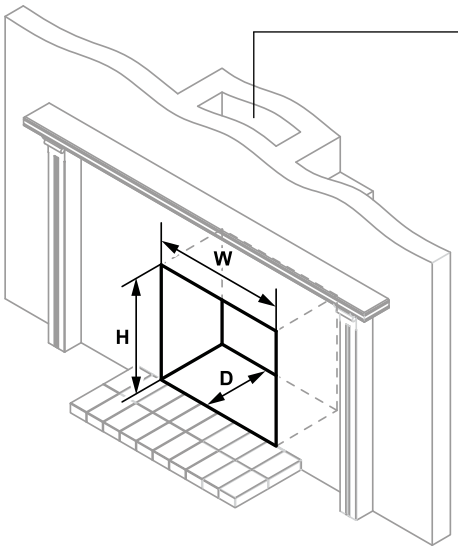
	Suitable for	Flue type	Input (MJ/h)	Output (kW)	Efficiency on high
Linear 800 FlameTech 		Power flue	15-35	3.5-7.7	77%
Linear 1000 FlameTech 		Power flue	15-35	3.5-7.7	75%
Linear 1000 		Power flue	15-34	3.6-7.4	75%
Linear 1500 		Power flue	14-40	3.3-8.5	75%
Linear Indoor-Outdoor 		Power flue	model dependent	model dependent	model dependent
Arriva 752 		Power flue	8-31.5	1.8-7.0	79-89%
Evolve 952 		Power flue	10-34	2.3-8.1	86%
Evolve 1253 Plus 		Power flue	17-34	4.0-8.4	88%
Symmetry RDV3611 		Direct Vent	19-33	3.8-7.5	80%
Novo Freestander, and Cube 		Direct vent	14-30	3.6-6.6	77%
Novo Inbuilt 		Direct vent	14-30	3.6-6.6	77%
Ember 600 		Direct vent	12-23	2.5-5.0	77%
Ember 700 		Direct vent	14-27	3.0-6.0	77%

Remote	Heating area (m^2)	Hourly LPG running costs low-high	Hourly NG running costs low-high
	71-123	$1.06 - $2.47	$0.74 - $1.72
	71-123	$1.06 - $2.47	$0.74 - $1.72
	69-118	$1.06 - $2.40	$0.74 - $1.67
	79-135	$0.99 - $2.82	$0.69 - $1.96
	model dependent	refer above, model dependent	refer above, model dependent
	65-112	$0.56 - $2.22	$0.39 - $1.55
	65-129	$0.71 - $2.40	$0.49 - $1.67
	78-134	$1.20 - $2.40	$0.83 - $1.67
	71-120	$0.63 - $2.33	$0.44 - $1.62
	65-112	$0.99 - $2.12	$0.69 - $1.47
	65-112	$0.99 - $2.12	$0.69 - $1.47
	46-80	$0.85 - $1.62	$0.59 - $1.13
	56-96	$0.99 - $1.90	$0.69 - $1.33

Cavity dimensions - will it fit?

Often the choice of gas fire is determined by an existing space or how big the cavity size needs to be. Below is a summary of the cavity size needed for each Rinnai gas fire.

Existing masonry fireplace



For the Ember / Novo the chimney needs to be at least 200 x 200 mm to fit the two flexi flues.

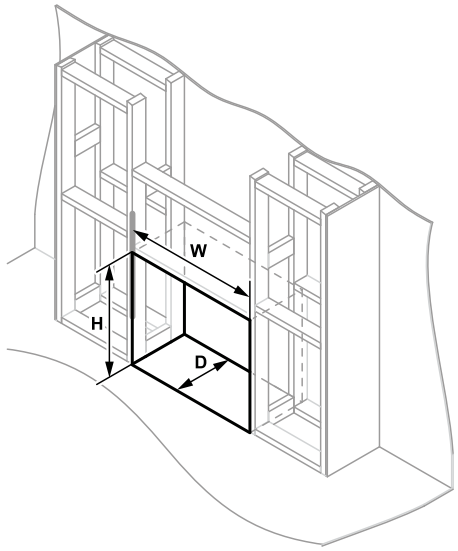
Model	Width (mm)	Height (mm)	Depth (mm)
Ember 600	600	600	400 min.
with infill panel	600-750	600-675	400 min.
Ember 700	700	600	400 min.
with infill panel	700-850	600-675	400 min.
Novo Inbuilt	700	600	370 min.
with infill panel	700-1030	600-740	370 min.

Infill panels

Cavity dimensions can be larger if an infill panel is used. This panel, purchased as an accessory, is for when the cavity is larger than the frame. The panel will cover the gap behind the fire/frame.

For example:
The Ember 600 can be installed into a cavity with a width of up to 750 mm and a height of up to 675 mm if an infill panel is purchased.

Mock chimney - combustible opening



Model	Width (mm)	Height (mm)	Depth (mm)
Evolve 952	965-980	570-580	570 min.
Evolve 1253	1265-1280	570-580	570 min.
Symmetry	1100-1125	850 min.	540 min.
Arriva 752	850-860	660-665	380 direct flue* 475 extended flue* 500 underfloor flue*
Ember 600	700	700	400 min.
Ember 700	800	700	400 min.
Novo Inbuilt	800	655	370 min.

Please note: Linear model dimensions are not provided in this table due to the range of installation variations and the off-centre position of the appliance, refer p.16-19 for more information.

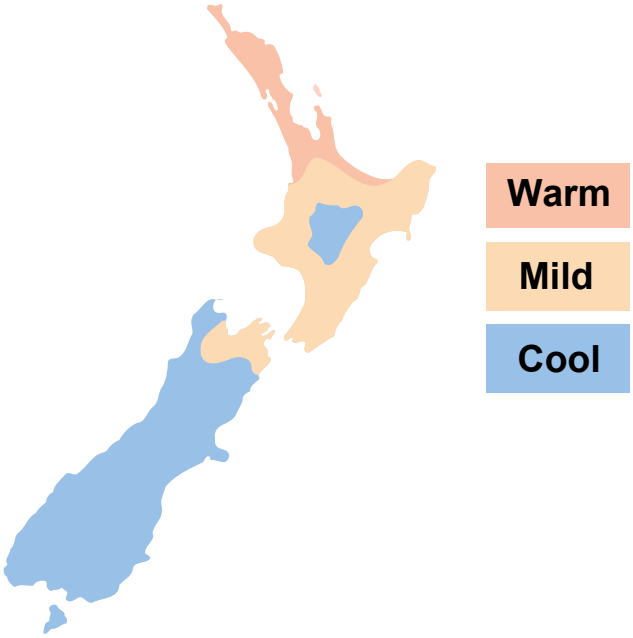
*** Arriva 752 flueing**: The type of flue configuration will determine how much depth is needed, refer p.34 for further details.

Choosing the right gas fire

Geographical location, room size, room insulation, running costs, functionality, and design all play a part in choosing the right gas fire.

Geographical location

Where you live in New Zealand can determine the type of heating solution you choose. Use the diagram to work out which climate zone you are in.



Room size

Consider the whole area you need to heat. This should include adjacent rooms through permanently open doorways and hallways.

Heat loss

Heat loss factors include:
- no ceiling or wall insulation
- no carpets on floors
- no curtains
- window area > 15 m²
- ceiling height > 2.4 m²
- building on poles or piles

Running costs

Upfront purchase costs should be considered in conjunction with the ongoing running costs of a heating solution.

Functionality vs. aesthetics

Additional considerations are functionality, the size and look of the gas fire, and where it is likely to be installed.

Location considerations

It's important to review the clearance and suitability information for each Rinnai gas fire as this will provide a guide as to where it may be positioned. This information can be found within the product pages of this guide.

HEATING AREA (based on a standard ceiling height of 2.4 m)

Gas fireplace	Warm zone	Medium zone	Cool zone
Linear 800	123m²	85m²	71m²
Linear 1000 FT	123m²	85m²	71m²
Linear 1000	118m²	82m²	69m²
Linear 1500	135m²	94m²	79m²
Arriva 752	112m²	77m²	65m²
Evolve 952	129m²	77m²	65m²
Evolve 1253	134m²	93m²	78m²
Symmetry	120m²	83m²	71m²
Novo FS + Cube	112m²	77m²	65m²
Novo Inbuilt	112m²	77m²	65m²
Ember 600	80m²	55m²	46m²
Ember 700	96m²	66m²	56m²

As an estimate you can make the following deductions from the heating areas shown for specific heat loss factors.

If you have:	Deduct above heating area by:
No ceiling insulation	10%
Wooden floor not concrete slab	5%
No carpets	5%
No curtains on single glazed windows	5%
No curtains on single-glazed windows, area exceeding 15 m²	10%
Ceiling height 2.5-2.8 m	3%
Ceiling height 2.8-3.0 m	5%
Ceiling height 3m plus	7%

For example: The Evolve 952 will heat 129 m² (warm zone). If there is no ceiling insulation this area reduces by 10% to become 116 m².

TV installation above a fireplace

If installing a flat screen TV above a fire, the main issue is heat. Heat from the fire and heat from the flueing components that could be installed behind the TV (especially if recessed).

All Rinnai gas fireplaces have a fan that distributes warm air from the top of the appliance out into the room (except the Arriva 752 where the heat comes from the bottom of the unit).

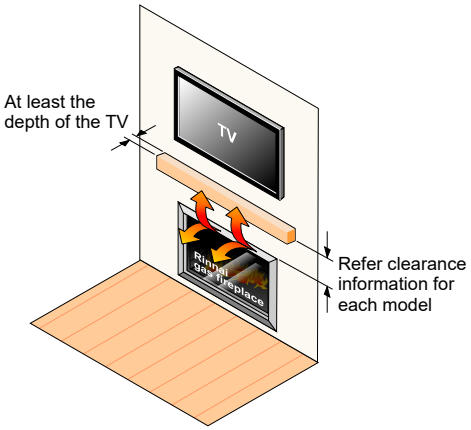
As warm air is dispersed outwards and not directly upwards, installation of a TV may be an option.

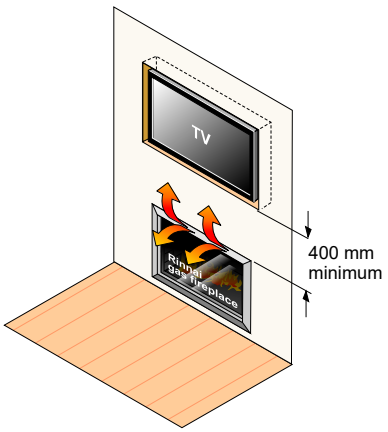
The general rule for television installations is that the bottom of the television should be at least 400-450 mm above the fire.

For a TV mounted directly above the fire, the mantel must be at least the depth of the TV to deflect heat away.

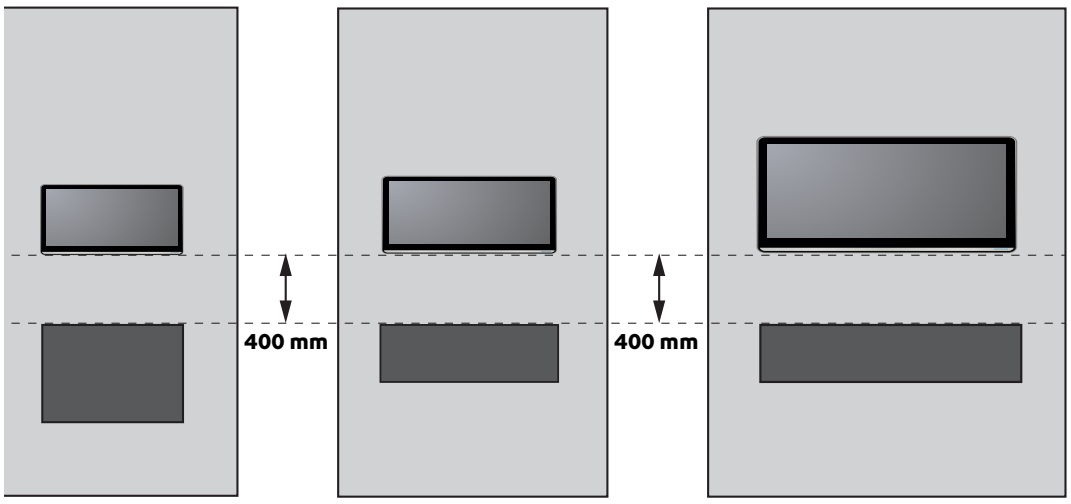
Always check with the TV manufacturer
It is up to the owner to check the TV installation with the TV manufacturer—some have warranty conditions that state a TV is not to be installed above a fireplace.

Rinnai does not accept any responsibility for damage to a TV resulting from the use of this information.





Linear TV installation diagram



Rinnai gas fireplaces

Product specification pages

Linear Collection

Designed and made in New Zealand

Rinnai's designers took their inspiration from Aotearoa's unique landscapes. They hand selected driftwood washed up on our wild West Coast beaches, and stones to match those shaped by our rivers and tides. These were painstakingly recreated as perfectly lifelike ceramics.

Rinnai's engineers then reinvented gas fire technology so flames burn more realistically and embers glow more brightly. Finally, they captured the flames in frameless panoramic enclosures leaving next to nothing between you and the flickering warmth. The end result is the Linear gas fire collection from Rinnai.

The Linear Collection at a glance

800 double-side FlameTech logs

800 indoor-outdoor FlameTech logs

1000 double-side FlameTech logs

1000 single-side FlameTech logs

1000 single-side modern media

1000 double-side designer logs

1500 single-side designer logs

1500 double-side modern media

Successful installation - the devil is in the detail

With a number of these beautiful fires already installed, we've learned a thing or two. A successful installation is all about the detail. Here's a summary of some of the important details that will ensure a smooth and pain-free installation.

- **Framing dimensions**
  The Linear units are not symmetrical, the cavity needs to be framed based on the centreline of the Linear glass, NOT the opening size. Refer to p.16-19 for more information.

- **Wall linings and clearances to combustibles**
  There are some aspects of the wall lining installation that are critical to the safe operation of the appliance. One aspect is the free flow of air around the unit. As there are a myriad of wall lining options a supplementary 'Additional guide to installing wall linings' can be found on our website. Information on clearances to combustibles can be found on p.14.

- **Cavity ventilation for the room temperature sensor**
  Ventilation of an area of at least 2000 mm^2 is recommended in the cavity, ideally below the base of the fire. This is to provide air to the temperature sensor located in the base of the fire, which senses the room temperature, refer p.15 for more information.

- **Keeping the area clear in front of the IR receiver**
  We've had instances where design, whilst beautiful, has caused IR receiver issues. This includes installing large marble stone, schist walls, and korteen steel directly in front of the IR receiver. We've also had installations where the IR receiver has been painted over. This will severely restrict the distance at which you can operate the fire via Wi-Fi or simple remote. More information on this is included in the installation guide available on our website.

- **Linear Indoor-Outdoor**
  The Linear window assembly allows a double-sided Linear model to be installed in an external wall. The fires have been modified to allow for a window installation. Ensure you have ordered the correct model and window kit, refer p.28 for more information.

  The Linear Indoor-Outdoor assembly is **unable to be retrofitted** to an existing Linear double-sided model as customisation is needed to fit a window—a new fire would be required.

Linear Collection
specification

Designed and made in New Zealand.

Inbuilt power flued convection fan fire operated by a simple infra-red remote, or by the Rinnai Wi-Fi app that allows full thermostatic control as well as other features such as timers. Different burn media options available.

Specification summary

	Input	Output*	Heating area**
800FT 1000FT	15-35 MJ/h	3.5-7.7 kW	71-123 m^2
1000	14-34 MJ/h	3.6-7.4 kW	69-118 m^2
1500	14-40 MJ/h	3.3-8.5 kW	79-135 m^2

* Will vary according to gas type and flue configuration
** Will vary depending on geographical location in NZ

Efficiency = > 75% (all models on high)
Gas type = NG or ULPG

The heat output and heating areas will differ slightly for the single sided and double sided variants. Single sided models will be slightly more efficient.

Suitability
Ideal for living rooms and open plan areas. Versatile power flue system makes for easy installation in almost any living space, including bedrooms.

The Linear is ideal for a new build installation.

Installation considerations
Room size—smaller rooms will heat up quickly, and due to the efficiency of the appliance, if in thermostatic mode, will reduce to a low flame profile.

Installation of the Linear higher up the wall, in some room configurations, can create draughts due to the convection air being pushed out from the top of the appliance.

Convection fan
2-speed fan. Heat is distributed from the top of the appliance.

Data plate - 1500
Base of the combustion chamber towards the left hand side, between the gas control and convection fan access panel.

Data plate - 800/1000
Base of the combustion chamber, left hand side, on the convection fan access panel.

Gas connection
½ “ BSP, the gas supply terminates inside the unit—lower left hand side of the appliance.

Ignition: Continuous spark electronic ignition.

Noise level: 37-45 dB(A)

Power flue
Inner 50 mm, outer 70~80 mm. Appliance must be installed with a Rinnai flue system.

Power consumption/electrical supply
High = 50 W
Standby = <8 W

The Linear has a 1.5 m power cord with a three pin plug supplied. The power cord passes through a slot in the right hand side of the appliance.

Safety devices
Flame failure sensing system, pressure relief, overheat safety switch, air temperature sensor, thermal fuse, overcurrent fuse, and spark detection.

Temperature control
The Linear can be operated using the basic infra-red remote, or for more features, such as timers and thermostatic control, using Rinnai’s Wi-Fi fireplace controller app.

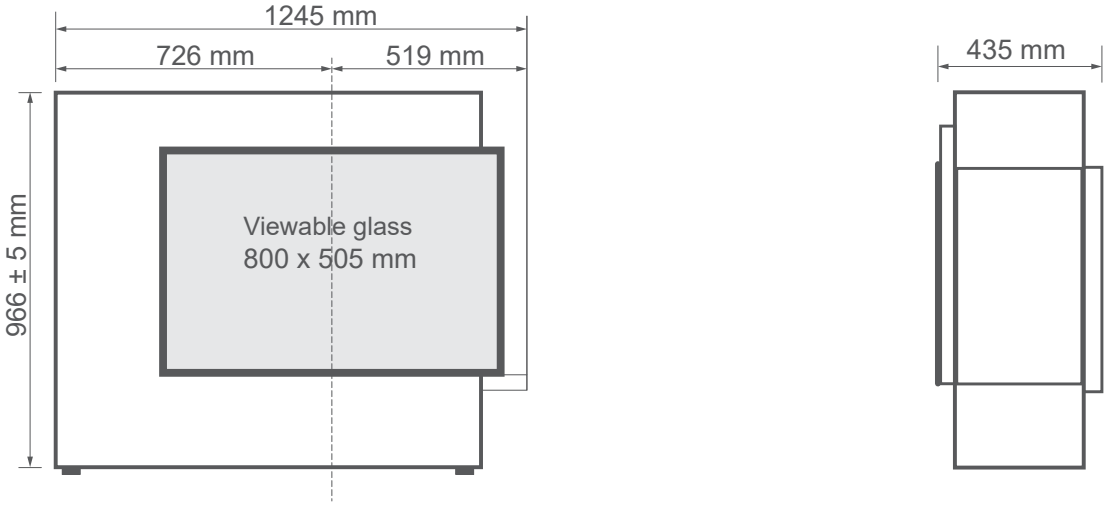
Weights

	Unit	Packaged
800	100 kg	120 kg
1000	100 kg	125 kg
1500	110 kg	140 kg

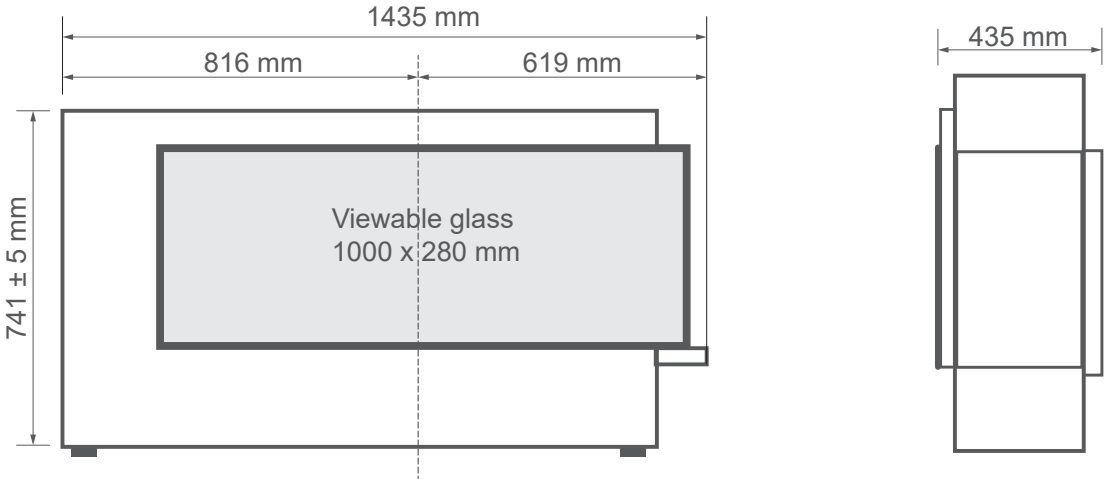
Linear Collection
dimensions (mm)

- These are the unit dimensions only, not the framing dimensions
- The centre of the glass is NOT the centre of the appliance

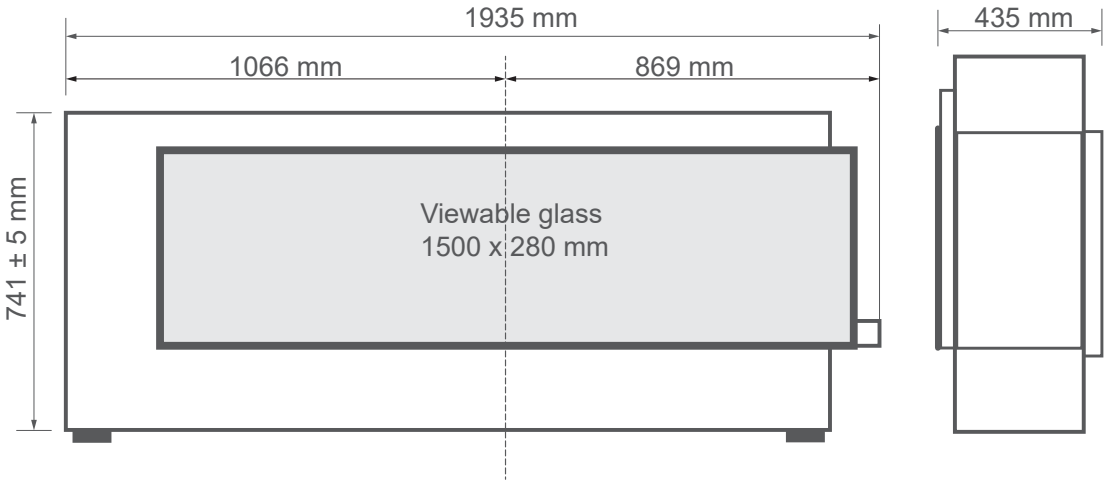
Linear 800



Linear 1000



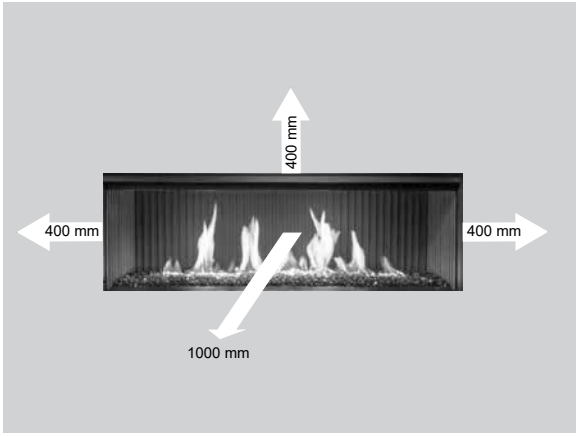
Linear 1500



Linear Collection
clearances from combustibles

The clearances listed below, measured from the edge of the glass, are minimum clearances unless otherwise stated.

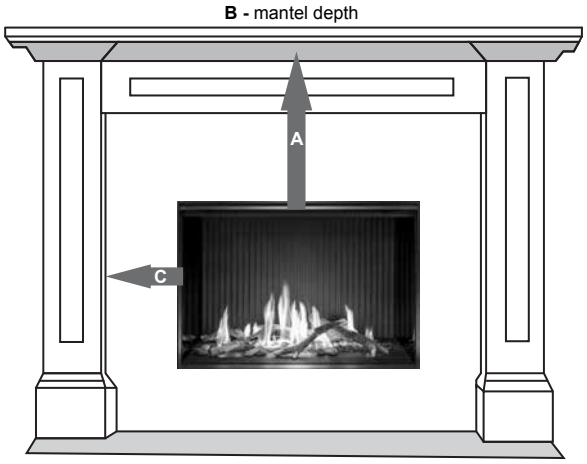
While the fire is operating
The appliance must not be installed where curtains or other combustible materials could come into contact with the fire. The 400 mm side clearance includes side walls. The 1000 mm clearance is in front of the fire.



Floor protection
Heat emanating from this fire may over time affect the appearance of some materials used for flooring, such as, carpet, vinyl, cork or timber. To avoid this occurring, it is recommended a mat be placed in front of the appliance.

Mantels and surrounds
Combustible mantels and surrounds require clearance from the unit to minimise the risk of fire.

Mantels and surrounds, made of combustible material such as wood are allowed providing they are outside the minimum clearances detailed below.



A	Mantel needs to be a minimum of 400 mm away from the edge of the glass
B	Maximum mantel depth at 400 mm (A) is 250 mm maximum
C	Surround needs to be a minimum of 400 mm away from the edge of the glass

For every 50 mm of added mantel depth there must be an additional 100 mm of clearance from the edge of the glass. For example:

Mantel depth: 'A' clearance required

300 mm	500 mm
350 mm	600 mm
400 mm	700 mm

Linear Collection

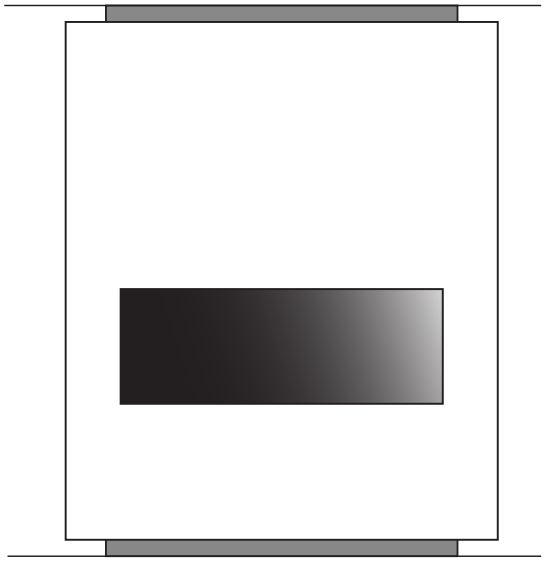
cavity ventilation for temperature sensor

Ventilation of an area of at least 2000 mm^2 is recommended in the cavity, ideally below the base of the fire. This is to provide room air to the temperature sensor located in the base of the fire, which senses the room temperature. Ventilation can be via a vent or an open toe kick at the base of the cavity.

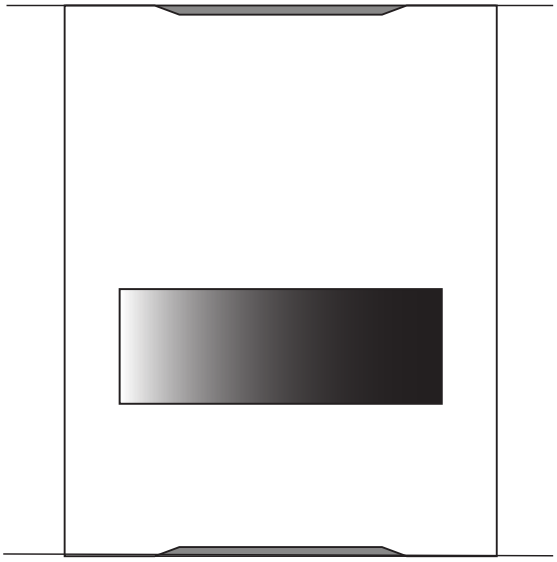
Alternatively, provide a way of moving the room temperature sensor into the room, for example under the hearth—ensure it can be accessed/removed for service.

Cavity ventilation design ideas

front view

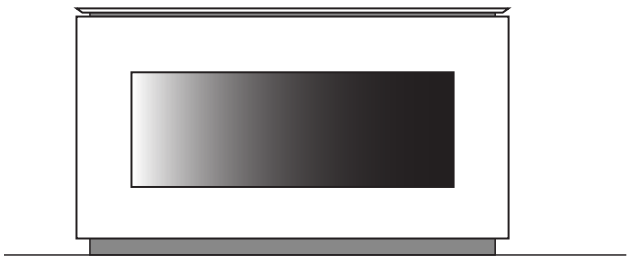


front view



peninsular top view

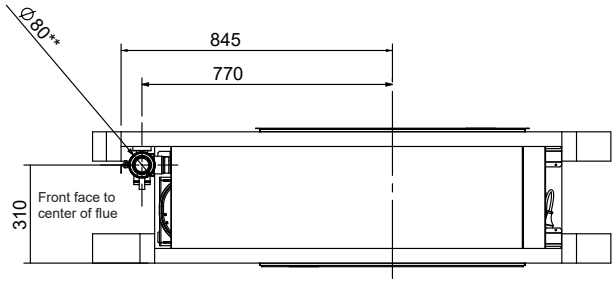
peninsular side view

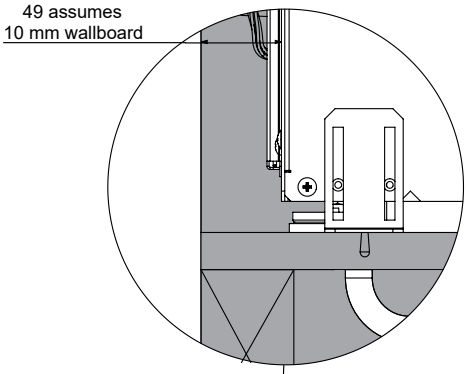


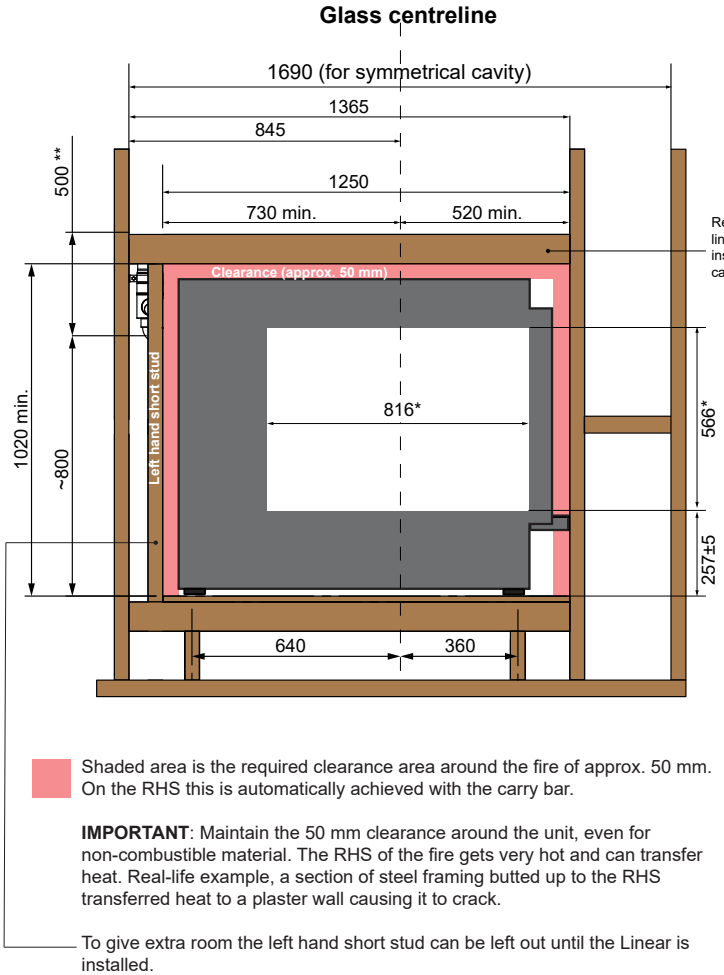
Linear 800
minimum framing dimensions (mm)

IMPORTANT

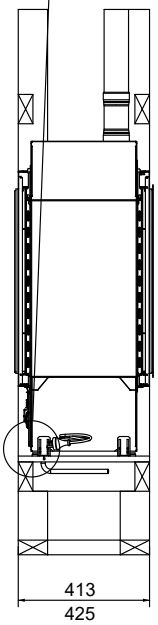
The framing dimensions have the studs offset. This is because the cavity needs to be **framed based on the centreline of the Linear glass, NOT the opening size**. Where there is a requirement for a symmetrical installation, the cavity size will need to increase.







Recommend that the lintel is left until the fire is installed so clearances can be maintained



Shaded area is the required clearance area around the fire of approx. 50 mm. On the RHS this is automatically achieved with the carry bar.

IMPORTANT: Maintain the 50 mm clearance around the unit, even for non-combustible material. The RHS of the fire gets very hot and can transfer heat. Real-life example, a section of steel framing butted up to the RHS transferred heat to a plaster wall causing it to crack.

To give extra room the left hand short stud can be left out until the Linear is installed.

413 mm assumes a 10 mm wallboard on both sides of a double-sided unit.

425 mm is the min. for a single-sided unit with 10 mm wallboard to maintain 50 mm clearance to the back of the fire.

Gas connection
Leave at least 100 mm of clearance under the base board to allow for the gas supply and connection.

* Minimum wallboard cutout if using the outer finishing trim

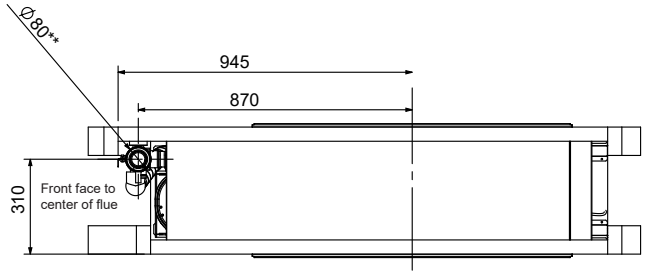
** Maintain 25 mm clearance to combustibles for the first 500 mm of flue

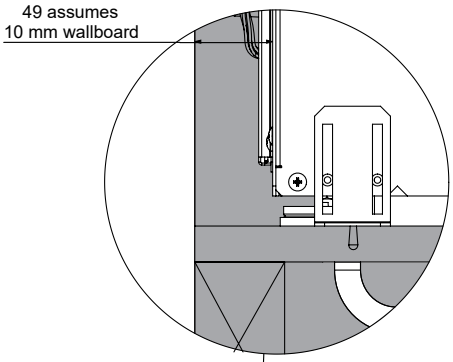
- All dimensions are assuming a 10 mm wallboard
- Studs and joists are required directly below the support feet of the fire
- Framing shown is 90 x 45 mm
- Fire platform shown is 18 mm plywood

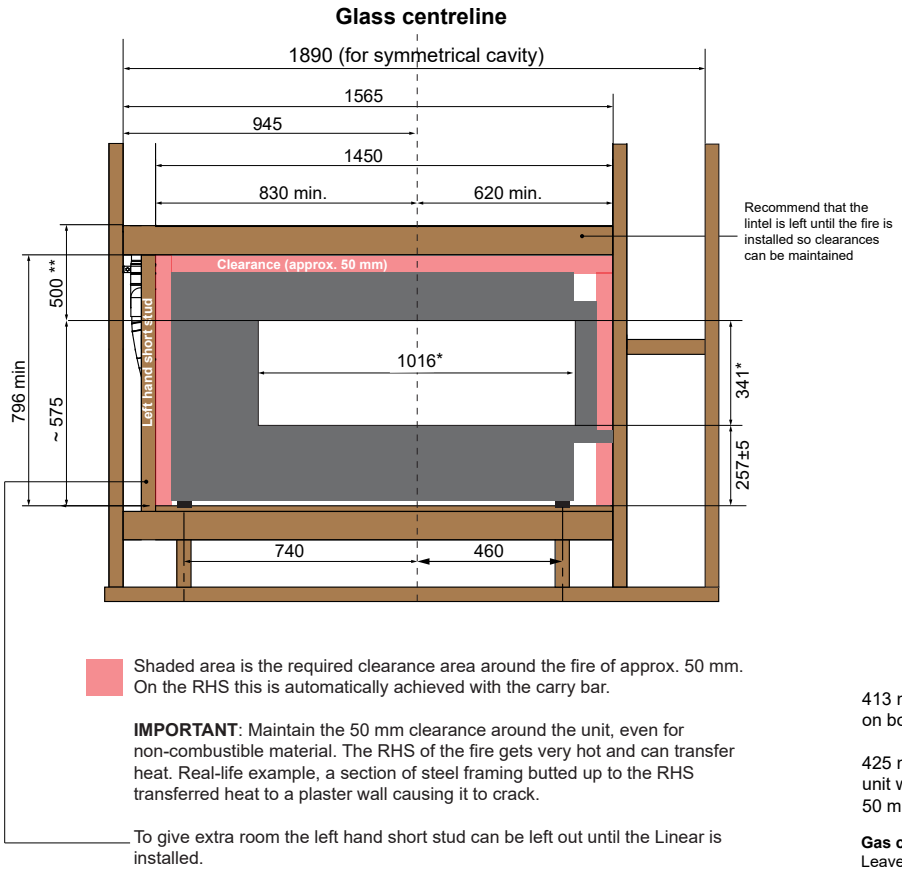
Linear 1000
minimum framing dimensions (mm)

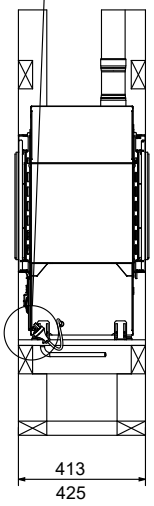
IMPORTANT

The framing dimensions have the studs offset. This is because the cavity needs to be **framed based on the centreline of the Linear glass, NOT the opening size**. Where there is a requirement for a symmetrical installation, the cavity size will need to increase.









Shaded area is the required clearance area around the fire of approx. 50 mm. On the RHS this is automatically achieved with the carry bar.

IMPORTANT: Maintain the 50 mm clearance around the unit, even for non-combustible material. The RHS of the fire gets very hot and can transfer heat. Real-life example, a section of steel framing butted up to the RHS transferred heat to a plaster wall causing it to crack.

To give extra room the left hand short stud can be left out until the Linear is installed.

413 mm assumes a 10 mm wallboard on both sides of a double-sided unit.

425 mm is the min. for a single-sided unit with 10 mm wallboard to maintain 50 mm clearance to the back of the fire.

Gas connection
Leave at least 100 mm of clearance under the base board to allow for the gas supply and connection.

* Minimum wallboard cutout if using the outer finishing trim

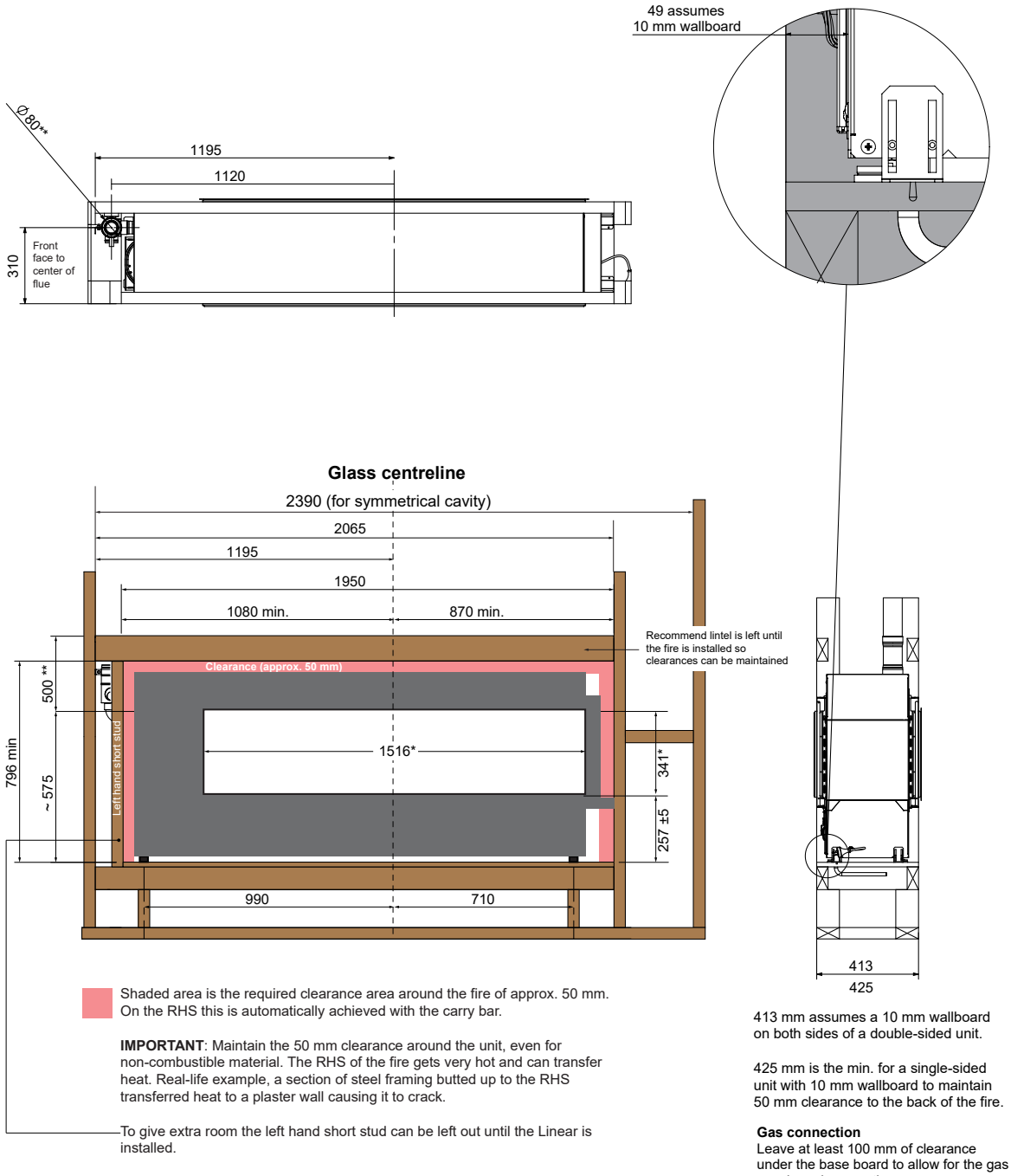
** Maintain 25 mm clearance to combustibles for the first 500 mm of flue

- All dimensions are assuming a 10 mm wallboard
- Studs and joists are required directly below the support feet of the fire
- Framing shown is 90 x 45 mm
- Fire platform shown is 18 mm plywood

Linear 1500
minimum framing dimensions (mm)

IMPORTANT

The framing dimensions have the studs offset. This is because the cavity needs to be **framed based on the centreline of the Linear glass, NOT the opening size**. Where there is a requirement for a symmetrical installation, the cavity size will need to increase.



Shaded area is the required clearance area around the fire of approx. 50 mm. On the RHS this is automatically achieved with the carry bar.

IMPORTANT: Maintain the 50 mm clearance around the unit, even for non-combustible material. The RHS of the fire gets very hot and can transfer heat. Real-life example, a section of steel framing butted up to the RHS transferred heat to a plaster wall causing it to crack.

To give extra room the left hand short stud can be left out until the Linear is installed.

413 mm assumes a 10 mm wallboard on both sides of a double-sided unit.

425 mm is the min. for a single-sided unit with 10 mm wallboard to maintain 50 mm clearance to the back of the fire.

Gas connection
Leave at least 100 mm of clearance under the base board to allow for the gas supply and connection.

* Minimum wallboard cutout if using the outer finishing trim

** Maintain 25 mm clearance to combustibles for the first 500 mm of flue

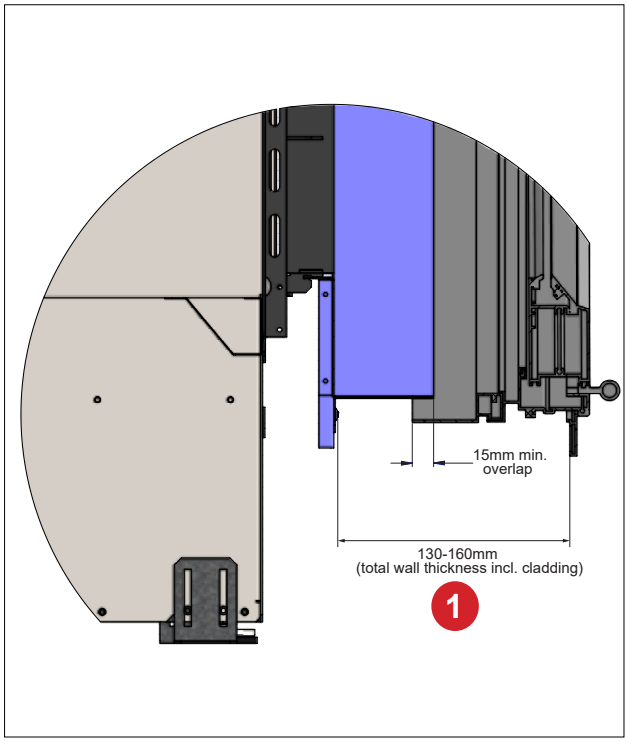
- All dimensions are assuming a 10 mm wallboard
- Studs and joists are required directly below the support feet of the fire
- Framing shown is 90 x 45 mm
- Fire platform shown is 18 mm plywood

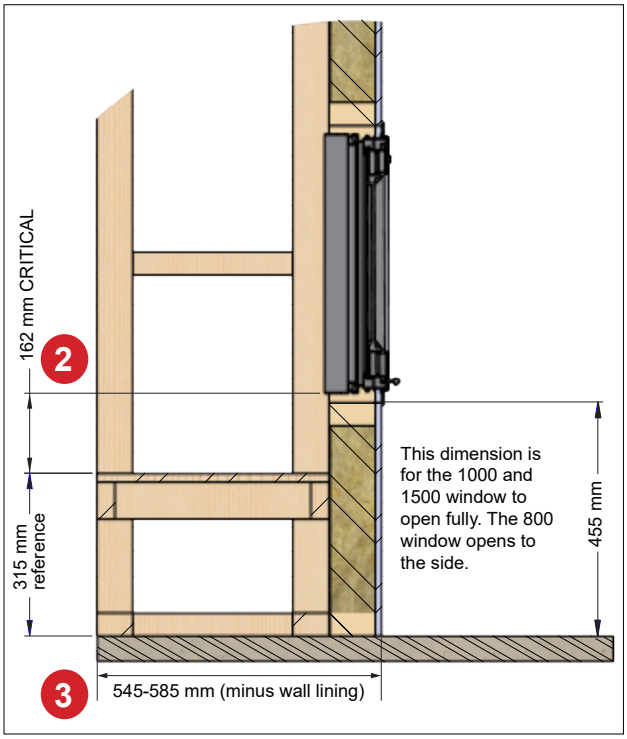
Linear Indoor-Outdoor
minimum framing dimensions (mm)

Use the below information in conjunction with the framing dimensions on the previous pages.

For a successful installation it's important that the proposed window placement is checked to make sure the fire will fit. For example, enough room underneath for the Linear to be installed, and just as important, that the Linear fire won't be installed too high up the wall. The fire needs to be sized to match the window height. For the window dimensions refer next page.

The Linear 800 window opens sideways, left or right. The Linear 1000 / 1500 window opens downwards.



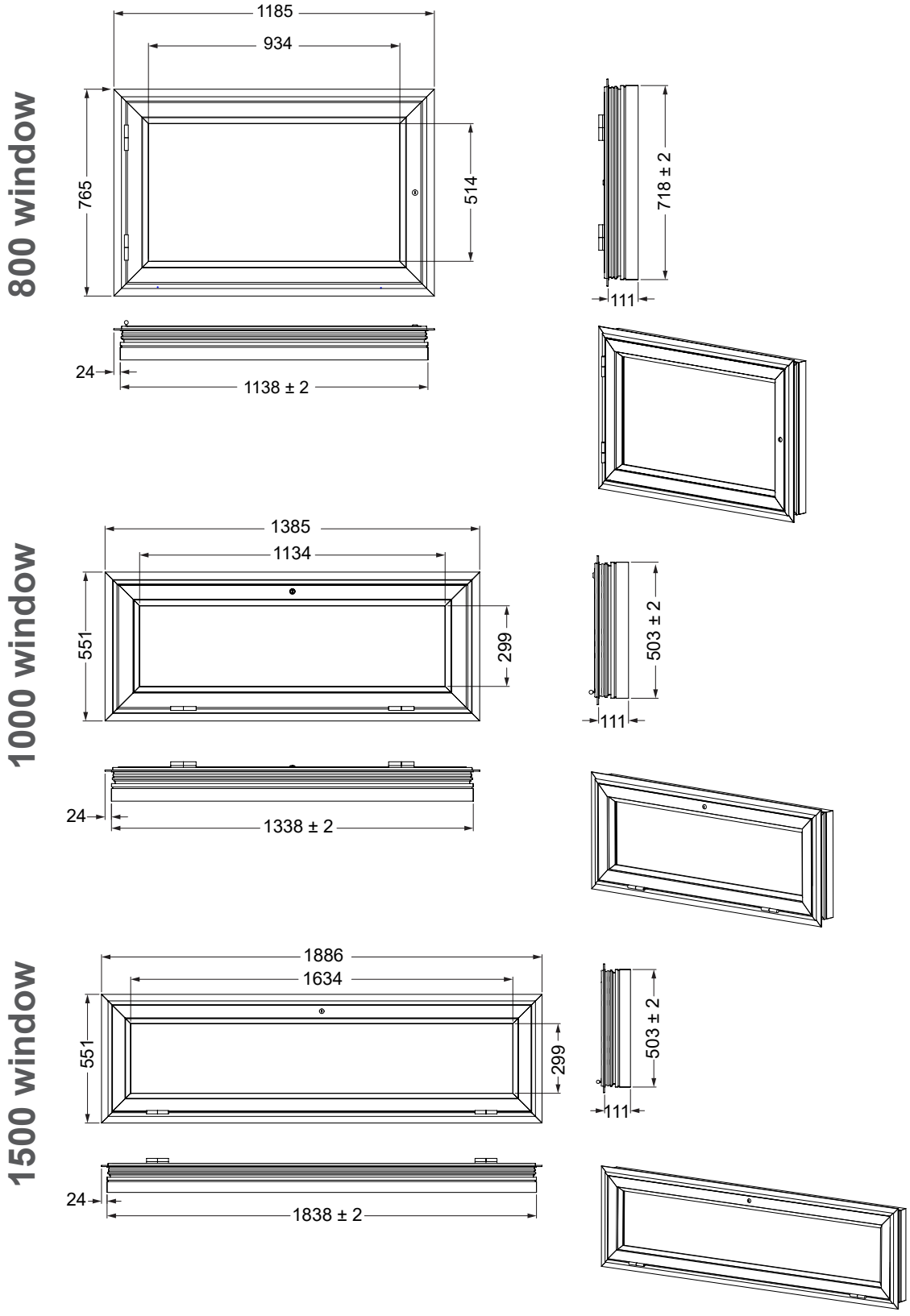


A plinth is constructed to position the fire in front of the outdoor window. This ensures the front lip of the fire is in line with the window lip, and ensures a complete view of the fire from the outside.

The critical dimensions for a successful and aligned installation are numbered 1, 2, and 3 on the diagrams. The 162 mm dimension (number 2) is to the window sill—packing and/or feet adjustment may be required.

While the 455 mm height allows for the window to be fully open (1000 and 1500 models), it may be too high for the preferred viewing position of the fire. Adjust as required.

Linear Indoor-Outdoor
window dimensions (mm)



Linear Collection
burn media

There is no part number for the 800 / 1000 FlameTech log set as the burn media is included with the fire.

800 FlameTech log set

1000 FlameTech log set

Utilising innovative log technology, flames emanate from the logs giving a more realistic flame picture.

R2902: 1000 designer log set

Mimicking natural drift wood and beach stones (ordered separately).

R2904: 1000 modern media

Modern media in the form of reflective black crushed glass (ordered separately).

R2903: 1500 designer log set

Mimicking natural drift wood and beach stones (ordered separately).

R2905: 1500 modern media

Modern media in the form of reflective black crushed glass (ordered separately).

Linear Collection accessories

Linear outer finishing trims (black)

	15 mm THIN	50 mm WIDE
800	R2915 (840 x 590 mm)	R2960 (910 x 660 mm)
1000	R2916 (1040 x 365 mm)	R2961 (1110 x 435 mm)
1500	R2917 (1040 x 365 mm)	R2962 (1610 x 435 mm)

Installation of the Linear requires the wall lining to be installed flush with the lips of the appliance. With plasterboard a smooth flush finish can be problematic. The outer finishing trim accessory, powder coated black, is designed to help achieve a smooth edge finish without plastering against the fire, which your tradie plasterers will love you for. **Not suitable for installations with a hearth**.

Linear mesh guard (black)

- 800 R2912
- 1000 R2913
- 1500 R2914

Designed to protect against touching the hot surface of the glass. No fixing required, the mesh guard, via two top slots, sits over the glass frame tabs, with the lower section secured in the same channel that holds the glass front.

The mesh will still get very hot. If you are wanting to stop young hands from getting near the fireplace we would recommend a fire guard in front of the fire.

Pinecone accessory kit : R2906 (all models)

- Five pinecones

Elevate the aesthetics of your Rinnai fire by bringing the ambience of a woodland bonfire straight to your living room. Designed with meticulous attention to detail, these specially moulded ceramic pinecones (two small, two medium, and one large) look like just the real thing.

Ideally installed at the same time as the Linear as retrofitting will require a licensed gasfitter to install.

Linear black magic reflective side panels (two in a set)

- 800 R2910
- 1000 / 1500 R2911

Black glass reflector panels. Enhances the flame picture by producing a mirror image of the flames in the side panels. The images below show the Linear 1000 double-sided log set with the side panels installed, and the Linear 1000 double-sided modern media with the standard ceramic grooved side panels. Ideally installed at the same time as the Linear as retrofitting will require removing a number of internal components, which will add cost and time.

Linear peninsular pack (black)

- 800 R2924
- 1000 / 1500 R2925

A series of metal panels (1 mm thick) designed to fit around the fire to create a peninsular design on a double-sided model, as shown in the image below.

Each kit comes in three sections, two flat pieces and one folded endcap—powder coated black. We also have the ability to manufacture custom sizes, which are made to order, please contact Rinnai for more information.

Linear Collection flueing options

For lowest cost, optimal performance, ease of installation and servicing, Rinnai recommend short flue installations (less than 3 m) are considered before all other options. When considering the location of the fire care must be taken to ensure the flue path is free from obstructions such as studs, noggins, joists, braces, electrics etc.

Maximum flue length = 8.5 m[1] Maximum number of bends = three

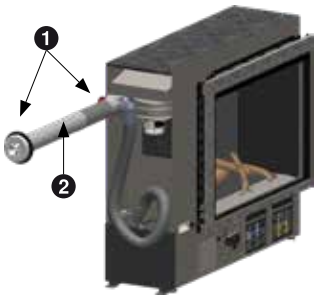
For every 90° bend, the overall length must be reduced by 1 m. For example, if an installation has three 90° bends, the maximum flue length can be 5.5 m. The elbow component of the Linear adaption flue kit (LSFKIT01) IS NOT counted as a 90° bend.

300 mm of straight flue before any bends
A minimum of 300 mm of straight flue is required before any bends. This is required due to the heat produced from the initial section of flue. The LSFKIT01 has the 300 mm minimum flue length built in.

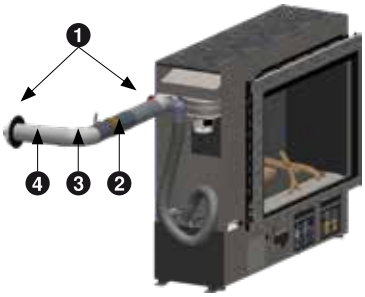
If using the direct flue (ASPDFK) and connecting to any bends, a flue transition extension (LSFEXKIT01) must be connected to achieve the minimum length.

Side direct, sided extended, side and back flueing
Side direct through the wall flueing for walls up to 385 mm thick. Flue can be extended if the wall thickness is greater than 385 mm by using additional lengths of flue pipe, and the pipe can be directed behind by using the flue transition extension and bend kit.

1. Direct flue kit - ASPDFK

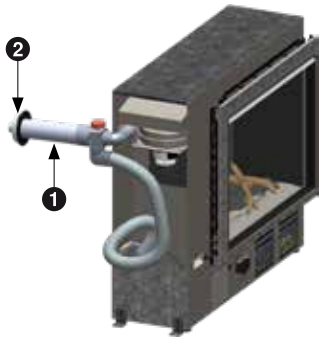


1. Direct flue kit - ASPDFK
2. Flue pipe - ESPIPE900

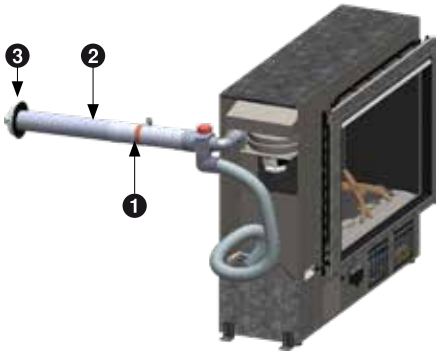


1. Direct flue kit - ASPDFK
2. Flue transition - LSFEXTKIT01
3. 45° bends - ESBEND
4. Flue pipe - ESPIPE900

Back direct and back extended flueing
By changing the direction of the adaption flue position and connection, back direct and back direct extended flueing is possible.



1. Adaption flue - LSFKIT01
2. Wall terminal - ESWTERM



1. Adaption flue - LSFKIT01
2. Flue pipe - ESPIPE900
3. Wall terminal - ESWTERM

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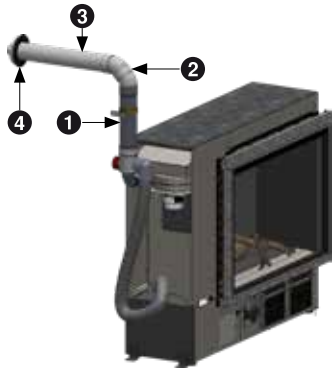
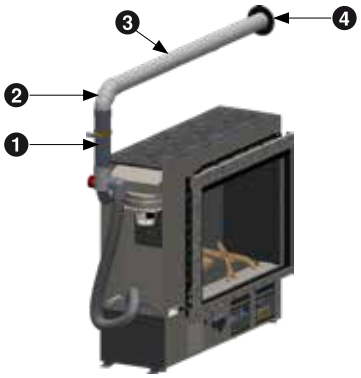
[1] For systems that require the flue to extend past 8/8.5 m, there is a flue system available, with an increased diameter, that when fitted with a long flue adapter (LFADAPT), allows the flue to run to a maximum of 20 m. Contact Rinnai for more information.

Up and back, and up and over flueing

Up and back through the wall flueing for walls up to 385 mm thick. Flue can be extended if the wall thickness is greater than 385 mm by using additional lengths of flue pipe.



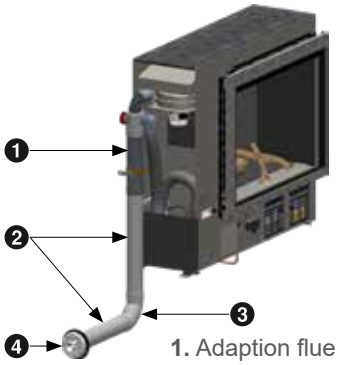
1. Adaption flue - LSFKIT01
2. 45° bends - ESBEND
3. Flue pipe - ESPIPE900
4. Wall terminal - ESWTERM



1. Adaption flue - LSFKIT01
2. 45° bends - ESBEND
3. Flue pipe - ESPIPE900 x 2
4. Wall terminal - ESWTERM

Down and out flueing

The down and out flue allows for the adaption flue to face downwards, and for the flue to run vertically through a hole in the floor, and then to terminate horizontally outside.

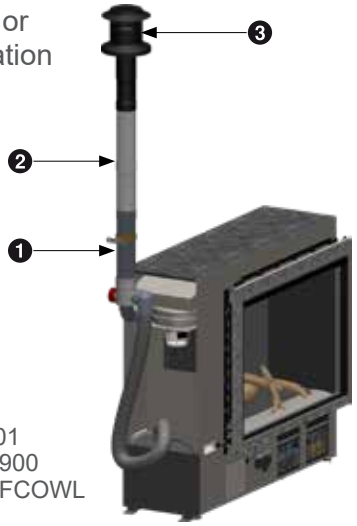


1. Adaption flue - LSFKIT01
2. Flue pipe - ESPIPE900 x 2
3. 45° bends - ESBEND
4. Wall terminal - ESWTERM
5. Wall plate - ESPLATE (not shown)

1. Adaption flue - LSFKIT01
2. Flue pipe - ESPIPE900 x 3
3. 45° bends - ESBEND
4. Wall terminal - ESWTERM
5. Wall plate - ESPLATE (not shown)

Vertical flueing

The vertical in-wall flue installation is installed against an internal wall or other suitable cavity, and is run vertically upwards to a vertical termination above the roof.

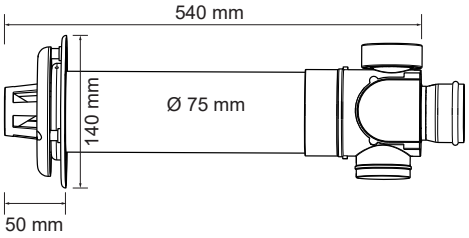


1. Adaption flue - LSFKIT01
2. Flue pipe - ESPIPE900
3. Vertical terminal - ESROOFCOWL

Linear Collection flue components

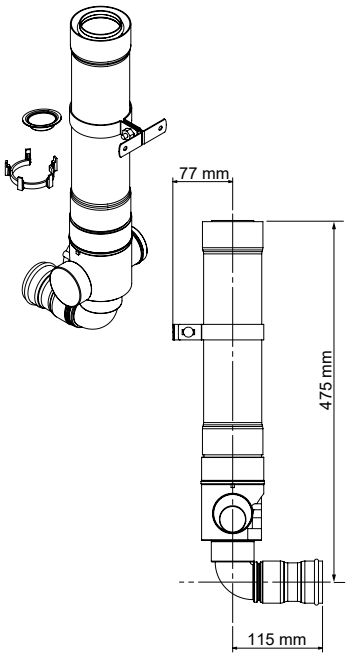
Due to heat from the flue components, maintain 25 mm clearance to combustibles for the first 500 mm of flue

Direct flue kit - ASPDFK (aluminium)
Suitable for walls up to 385 mm thick (can be cut to length). Can also be used with ESPIPE900 for longer flueing. The minimum length when measured from the back plate of the transition casting MUST NOT be less than 300 mm when joining to other components.



Not pictured is the internal white wall plate

Adaption flue kit - LSFKIT01
Includes flue adaptor, flue extension, standoff bracket, flue clamp and screw (4822), O-ring silicone grease.



45° flue bends - ESBEND
Two bends in a kit. Can be used separately, or together as a 90° bend.
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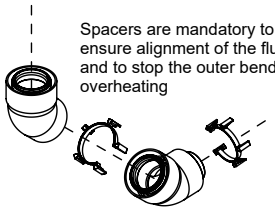
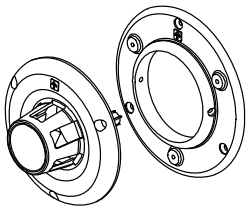
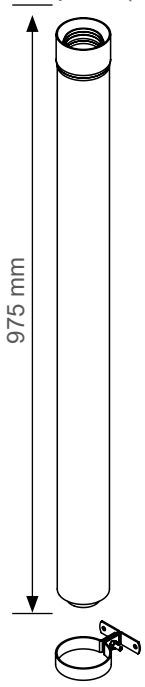


Wall terminal kit - ESWTERM
Used to terminate the ESPIPE900 in horizontal flue installations when used with LSFKIT01.



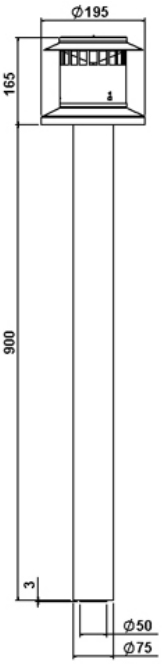
Flue pipe - ESPIPE900
Extension pipe used for horizontal, vertical, and downwards flueing. Can be cut to size at the non-socketed end.

Inner is aluminium, outer white PVC. Comes with a wall bracket, o-ring (4350), and spacer (4351).

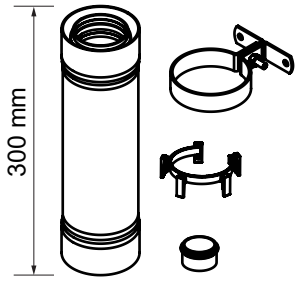


Roof terminal - ESROOFCOWL
Roof cowl and connecting pipe for termination of a vertical flue—can be cut to size. 500 mm clearance required from any part of the building.

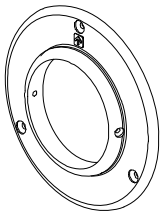
Galvanised steel, powder coated black.



Transition extension - LSFEXTKIT01
Flue transition extension, MUST BE used with the ASPDFK before any bends, for example in side and back flueing. When connected overall length reduces 45 mm each end.



Wall plate - ESPLATE
Used in down and out flueing to cover the floor penetration, and also as an extra wall cover if required, to tidy up an installation. Outer diameter 170 mm.



Direct flue kit - ASPDFK

Adaption flue kit - LSFKIT01

45 ° flue bends - ESBEND

Flue pipe - ESPIPE900

Roof terminal - ESROOFCOWL

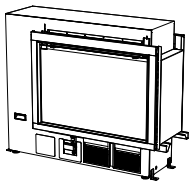
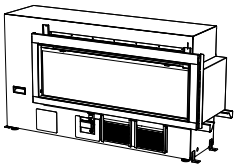
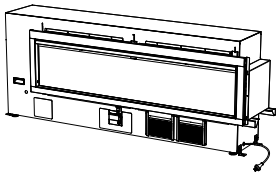
Transition extension - LSFEXTKIT01

Wall terminal kit - ESWTERM

Wall plate - ESPLATE

Linear Collection ordering guide

1 Decide on which Linear model, single or double side, and gas type.

	Model	Code
	Linear 800 FlameTech single side NG	RHFE0800SF1N
	Linear 800 FlameTech single side LPG	RHFE0800SF1L
	Linear 800 FlameTech double side NG	RHFE0800DF1N
	Linear 800 FlameTech double side LPG	RHFE0800DF1L
	Linear 800 FlameTech indoor-outdoor NG	RHFE0800WF1N
	Linear 800 FlameTech indoor-outdoor LPG	RHFE0800WF1L
	Linear 1000 single side NG	RHFE1000S1N
	Linear 1000 single side LPG	RHFE1000S1L
	Linear 1000 double side NG	RHFE1000D1N
	Linear 1000 double side LPG	RHFE1000D1L
	Linear 1000 FlameTech single side NG	RHFE1000SF1N
	Linear 1000 FlameTech single side LPG	RHFE1000SF1L
	Linear 1000 FlameTech double side NG	RHFE1000DF1N
	Linear 1000 FlameTech double side LPG	RHFE1000DF1L
	Linear 1000 FlameTech indoor-outdoor NG	RHFE1000WF1N
	Linear 1000 FlameTech indoor-outdoor LPG	RHFE1000WF1L
	Linear 1000 indoor-outdoor NG	RHFE1000W1N
	Linear 1000 indoor-outdoor LPG	RHFE1000W1L
	Linear 1500 single side NG	RHFE1500S1N
	Linear 1500 single side LPG	RHFE1500S1L
	Linear 1500 double side NG	RHFE1500D1N
	Linear 1500 double side LPG	RHFE1500D1L
	Linear 1500 indoor-outdoor NG	RHFE1500W1N
	Linear 1500 indoor-outdoor LPG	RHFE1500W1L

2 If ordering a Linear 1000 (except FlameTech model) or 1500, decide on the burn media, either designer log set or modern media (crushed glass).

	1000 and 1500 burn media	Code
	Linear 1000 designer log set	R2902
	Linear 1500 designer log set	R2903
	Linear 1000 modern media	R2904
	Linear 1500 modern media	R2905

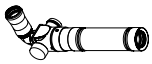
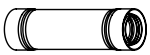
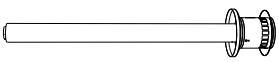
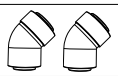
3 If ordering a Linear indoor-outdoor model, order the corresponding window kit. The window kit contains the double glazed black aluminium window.

	Window kit	Code
	Linear 800 indoor-outdoor window kit	R2930
	Linear 1000 indoor-outdoor window kit	R2940
	Linear 1500 indoor-outdoor window kit	R2950

4 Decide on optional accessories

	Accessory	Code
	Linear 800 outer finishing trim 15 mm THIN	R2915
	Linear 800 outer finishing trim 50 mm WIDE	R2960
	Linear 1000 outer finishing trim 15 mm THIN	R2916
	Linear 1000 outer finishing trim 50 mm WIDE	R2961
	Linear 1500 outer finishing trim 15 mm THIN	R2917
	Linear 1500 outer finishing trim 50 mm WIDE	R2962
	Linear 800 mesh guard	R2912
	Linear 1000 mesh guard	R2913
	Linear 1500 mesh guard	R2914
	Linear 800 black magic reflective side panels	R2910
	Linear 1000 black magic reflective side panels	R2911
	Linear 1500 black magic reflective side panels	R2911
	Linear 800 peninsular pack	R2924
	Linear 1000 / 1500 peninsular pack	R2925
	Pinecone accessory kit	R2906

5 Decide on flue configuration and select flue components

	Flue component	Code
	Adaption flue kit	LSFKIT01
	Direct flue kit	ASPDFK
	Flue transition extension	LSFEXTKIT01
	Coaxial flue pipe 900 mm	ESPIPE900
	Vertical terminal	ESROOFCOWL
	45° flue bends (two in a kit)	ESBEND
	Wall terminal	ESWTERM
	Wall plate	ESPLATE

Arriva 752
specification

Designed and made in New Zealand.

Inbuilt power flued convection fan gas fireplace with electronic temperature control, timers, and remote. Different frame and burn media options available (black pebbles or white quartz).

Specification summary

Input	= 8-31.5 MJ/h
Output	= 1.8-7.0 kW*
Efficiency	= 79-89%
Heating area	= 65-112 m2**
Gas type	= NG or ULPG

* Will vary according to gas type and flue configuration
** Will vary depending on geographical location in NZ

Suitability
Ideal for living rooms and open plan areas. Versatile power flue system makes for easy installation in almost any living space including bedrooms.

The Arriva is best suited for a new build installation into a mock (false) chimney.

Room size consideration
Due to the high efficiency of the fire, the Arriva is not suitable for small rooms. Small rooms will heat up quickly, and once the set temperature has been reached the flame picture will reduce significantly (and in some cases reduce to pilot only). This is not ideal if customers want a full flame picture to be visible for the majority of time that the fire is on.

Convection fan
3-speed fan. Heat is distributed from the bottom of the unit.

Data plate
Inside the unit, upper RHS, beside the convection fan.

Gas connection
½ “ BSP male flare union, lower RHS of unit.

Ignition
Continuous spark electronic ignition.

Noise level
33-41 dB(A).

Power flue

Inner	= 50 mm
Outer	= 70-80 mm

Appliance must be installed with a Rinnai flue system.

Power consumption

High	= 90 W
Low	= 60 W
Standby	= <8 W

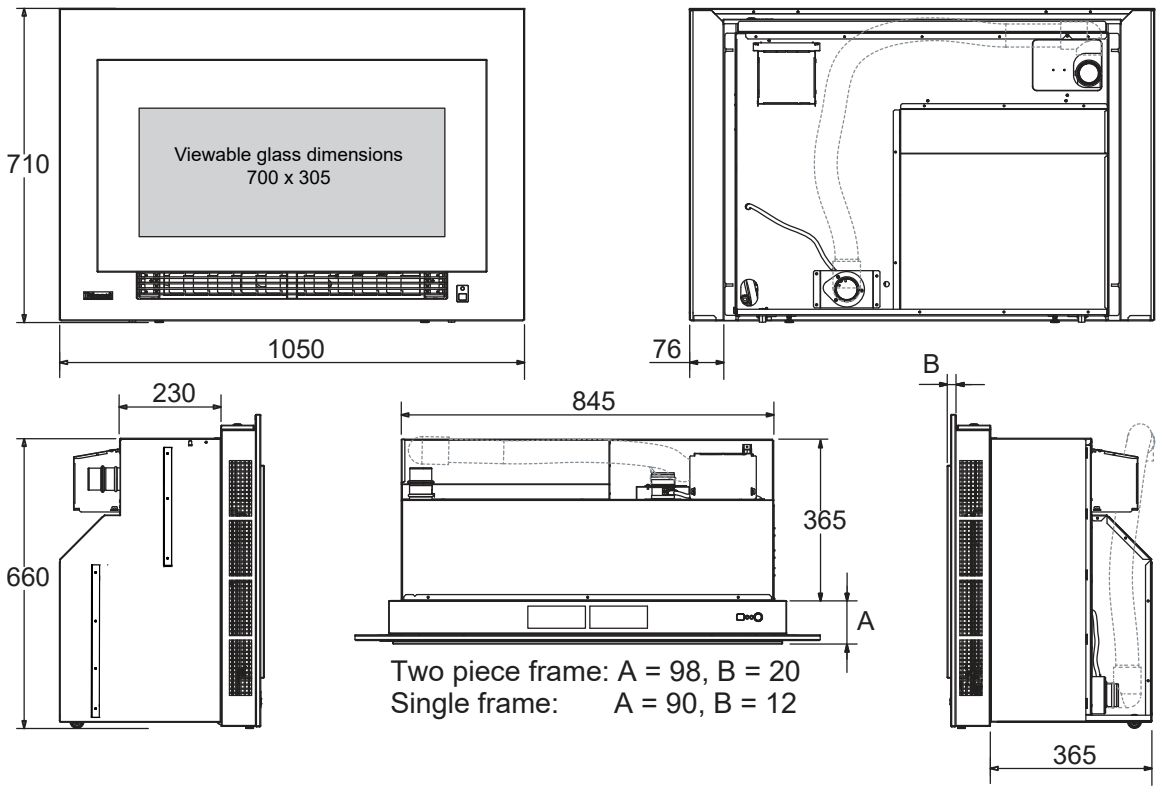
Comes with a 1.5 m power cord and 3-pin plug. The standard electrical connection is to the RHS of the unit.

Safety devices
Flame failure sensing system, pressure relief, overheat safety switch, air temperature sensor, thermal fuse, overcurrent fuse, and spark detector.

Temperature control
Thermostat control, temperature range 16-26 °C.

Weight
70 kg

Arriva 752
dimensions (mm)



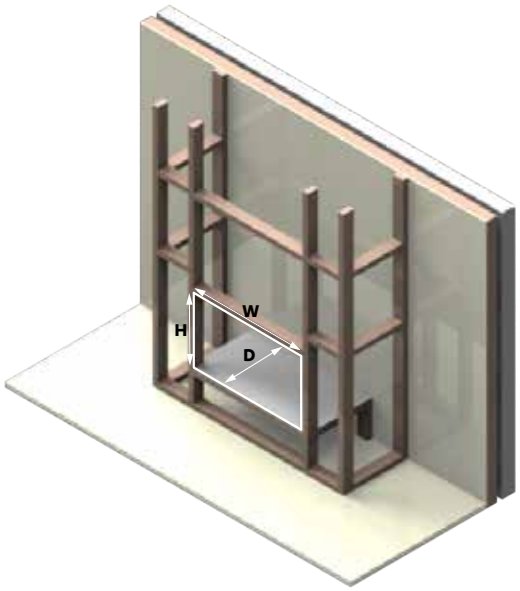
Two piece frame: A = 98, B = 20
Single frame: A = 90, B = 12

Dimensions are in mm.

Arriva 752
positioning

Framing dimensions
The main points governing location are flueing and warm air distribution. The Arriva has an integrated zero clearance box that isolates the appliance from combustible materials. This means it can be installed directly into a decorative fireplace constructed from materials such as wood or plaster.

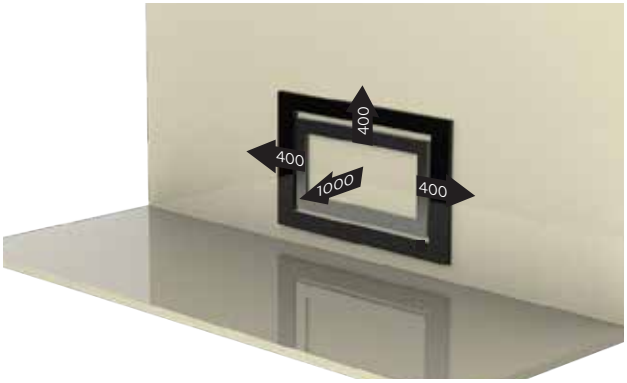
	Arriva 752
W - width	850-860 mm
H - height	660-665 mm
D - depth	380 mm direct flue, 475 mm extended flue, 500 mm underfloor flue



Clearances from combustibles
The clearances are minimum clearances unless otherwise stated.

The Arriva must not be installed where curtains, furniture or other combustible materials could come into contact with the fire.

The 400 mm side clearance, measured from the edge of the glass, includes side walls. The 1000 mm clearance is in front of the fire.



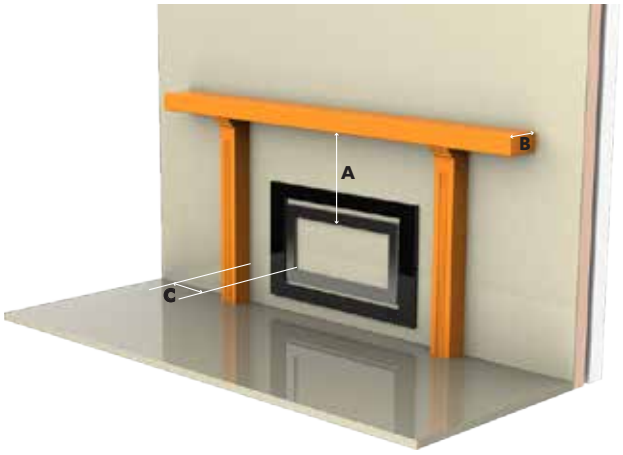
Mantels and surrounds
Mantels and surrounds, made of combustible materials, such as wood, are allowed providing they are outside the minimum clearances detailed.

A	Mantel needs to be a min. of 400 mm away from the edge of the glass
B	Max. mantel depth at 400 mm (A) is 250 mm
C	Surround needs to be a min. of 400 mm away from the edge of the glass

For every 50 mm of added mantel depth there must be an additional 100 mm of clearance from the edge of the glass.

For example:

Mantel depth	**A: Clearance required**
300 mm	500 mm
350 mm	600 mm
400 mm	700 mm



Hearths
A hearth is not necessary but can be used for decorative purposes or protection of sensitive flooring if required. The hearth, due to radiant heat from the fire, should be a non-combustible material and must not obscure the front of the fire or obstruct the fire in any way.

Arriva 752
frame and burn media options

752 flat black frame
R2711

Single continuous flat black frame.

752 stainless on black frame
R2713 (supplied in two pieces)

Stainless steel inner on black outer frame.

752 black on black frame
R2714 (supplied in two pieces)

Black inner on black outer frame.

752 black pebbles
R2740

Black glass pebbles.

752 white quartz
R2741

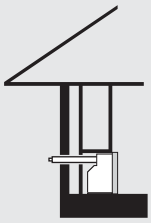
Large and small white quartz stones.

Arriva 752
flueing options

Maximum flue length is 8.5 m, maximum number of bends is three

One 90° bend is 1 m. For every 90° bend the overall length must be reduced by 1 m. For example, if an installation has three 90° bends, the maximum length can be 5.5 m.

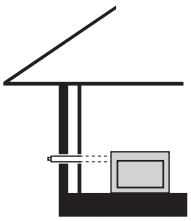
For lowest cost, optimal performance, ease of installation and servicing, Rinnai recommend direct flued installations are considered before all other options.



Direct and direct extended flueing
Direct through-the-wall flueing for walls up to 385 mm thick (400 mm if using the Direct B flue kit). Flue can be extended if the wall thickness is greater than 385 mm by using the ASPDFK flue kit and additional lengths of ESPIPE900.

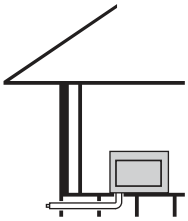
Direct
- Direct A flue (R2731), or
- Direct B flue (R2732), or
- Direct flue (ASPDFK)

Direct extended
- Direct flue (ASPDFK)
- Flue pipe (ESPIPE900)*



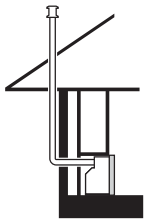
Sideways flueing
Can run along the left or right hand side of an internal wall behind the unit. When considering the location of the fire ensure the flue path is free from obstructions such as studs, noggins, wiring, joists etc.

- Adaption flue (ASPKIT03)
- Flue pipe (ESPIPE900)*
- Wall terminal (ESWTERM)



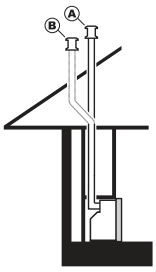
Down and out flueing
Allows for the adaption flue kit to face downwards and for the flue to run vertically through a hole in the floor, and then terminate horizontally outside—must be 300 mm above ground.

- Adaption flue (ASPKIT03)
- Flue pipe (ESPIPE900)*
- 45° bends (ESBEND)
- Wall terminal (ESWTERM)



Through-wall vertical flueing
For the small number of instances where the appliance cannot be directly flued or flued via an internal wall. In some cases a large portion of the flue may be visible from the outside.

- Direct flue (ASPDFK)
- 45° bends (ESBEND)
- Flue pipe (ESPIPE900)*
- Condensate trap (ESCONDK)
- Roof cowl (ESROOFCOWL)



In-wall vertical flueing
Installed against an internal wall within a false fireplace or other suitable cavity, and is run vertically towards a vertical termination.

A - Vertical
- Adaption flue (ASPKIT03)
- Flue pipe (ESPIPE900)*
- Roof cowl (ESROOFCOWL)

B - Vertical offset
- Adaption flue (ASPKIT03)
- Flue pipe (ESPIPE900)*
- 45° bends (ESBEND)
- Roof cowl (ESROOFCOWL)

* Installer to advise quantity required

Arriva 752
flue components

Direct A flue kit
R2731 (stainless steel)

Suitable for walls 115-240 mm thick, typically weatherboard construction.

This is a complete kit with an inbuilt 2° fall to drain condensate, no other components are required.

Outside wall terminal diameter - 140 mm

Direct B flue kit
R2732 (stainless steel)

Suitable for walls 240-400 mm thick, typically block construction.

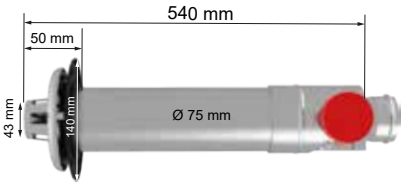
This is a complete kit with an inbuilt 2° fall to drain condensate, no other components are required.

Outside wall terminal diameter - 140 mm

Direct flue kit
ASPDFK (aluminium)

Can be used as an alternative to the A and B flue kits, and is suitable for walls up to 385 mm (can be cut to length).

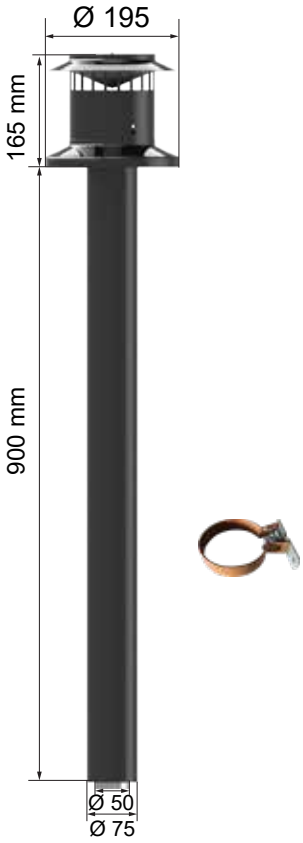
Can also be used in combination with ESPIPE900 for longer flueing. Flue terminal section is reusable when making flue longer.



Vertical terminal
ESROOFCOWL

Roof cowl and connecting pipe for termination of a vertical flue—can be cut to size.

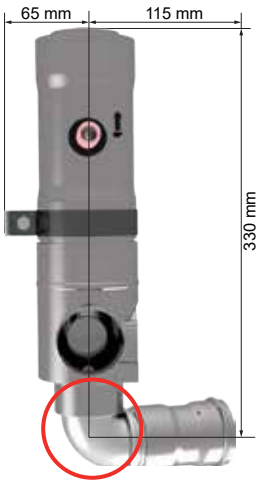
Galvanised steel, powder coated black.

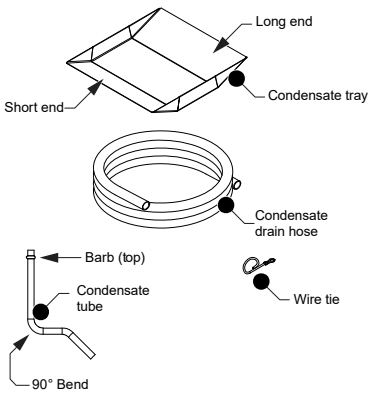


Arriva adaption flue kit
ASPKIT03

Elbow section of this component (circled) requires a 25 mm clearance from combustibles, the rest is zero clearance.

Kit includes; flue transition (rotates), condensate trap, wall strap, drain tube (750 mm), silicone grease, and flue clamp and screw (R4822), R1970 sub-kit. R1970 is a sub-kit called the condensate drain kit. This is used for installations that require draining of condensate back into the heater.





Arriva 752
flue components

Wall terminal kit
ESWTERM

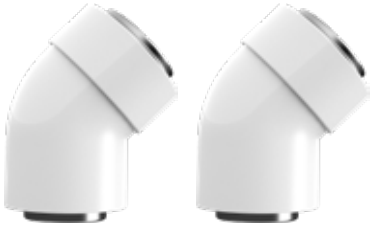
Used to terminate the ESPIPE900 in horizontal flue installations when used in conjunction with the ASPKIT03

Contains:
• External wall plate (black PVC)
• Flue terminal (aluminium)

45° flue bends (x2)
ESBEND

Two 45° bends used to facilitate between horizontal, vertical, and downwards flueing. Two spacers are included.

Can be used separately, or together as one 90° bend.



Wall plate
ESPLATE

Used if an extra wall cover is required to tidy an installation through the wall, ceiling, or floor.

Outer diameter 170 mm

Coaxial flue pipe 900 mm
ESPIPE900

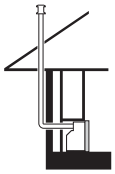
Extension pipe used to construct horizontal, vertical, and downwards flueing. Can be cut to size.

Inner is aluminium, and outer is white PVC plastic. Comes with one wall bracket, o-ring (4350), and spacer (4351).

Condensate trap
ESCONDK

Supplied with a 750 mm drain tube (not pictured).

ONLY ordered as a separate item if doing through-wall vertical flueing (as pictured).

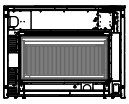
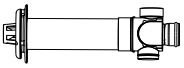
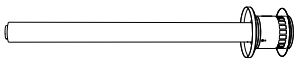
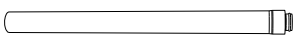
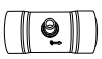


Steel flue guard (warm white)
R1370

Protection against hot flue gases when the termination is low to the ground. Colour - warm white.

- 220 x 220 mm (wall plate)
- Ø 146 mm

Arriva 752
ordering guide

1. Select **gas type** (engine)		
	Arriva 752 engine **NG**	RHFE752ETRN
	Arriva 752 engine **LPG**	RHFE752ETRL
Supplied with the engine is the remote control and batteries, screw pack, cable tie, frame mounting screws, gas connection, and flue clamping bracket (for direct A/B flues).		
2. Select frame option		
	Arriva 72 flat black frame	R2711*
	Arriva 72 stainless on black frame	R2713**
	Arriva 72 black on black frame	R2714**
* The flat frames are supplied as a single frame ** Supplied in two pieces—inner and outer frame		
3. Select burn media		
	Arriva 752 black pebbles	R2740
	Arriva 752 white quartz	R2741
4. Select flue components		
	Direct A flue kit (walls 115-240 mm)	R2731
	Direct B flue kit (walls 200-400 mm)	R2732
	Direct flue kit (walls up to 385 mm)	ASPDFK
	Adaption flue kit	ASPKIT03
	Vertical terminal (roof cowl)	ESROOFCOWL
	Flue pipe 900 mm	ESPIPE900
	Wall terminal kit	ESWTERM
	45 ° flue bends (two in a kit)	ESBEND
	Wall plate	ESPLATE
	Steel flue guard	R1370
	Condensate trap	ESCONDK
The condensate trap is included in the ASPKIT03. It only needs to be ordered separately if doing through-wall vertical flueing (not common).		

Evolve 952 / 1253 Plus
specification

Designed and made in New Zealand.

Inbuilt power flued convection fan heater operated by a simple infra-red remote or by the Rinnai Wi-Fi app that allows full thermostatic control, as well as other features such as timers. Different burn media options are available.

Specification summary

	952	1253
Input LPG MJ/h	10-32	17-32
Input NG MJ/h	10-34	17-34
Output MJ/h*	2.4-8.1	4.0-8.4
Efficiency % (on high)	86	88
Heating area m^2**	65-129	78-134
Gas type	NG or ULPG	

* Will vary according to gas type and flue configuration
** Will vary depending on geographical location in NZ

Suitability
Ideal for living rooms and open plan areas. Versatile power flue system makes for easy installation in almost any living space, including bedrooms.

The Evolve is ideal for a new build installation into a false (mock) chimney.

Installation considerations
Room size—smaller rooms will heat up quickly, and due to the efficiency of the appliance, the Evolve will turn to a low flame setting once the set temperature has been reached.

For efficient performance Rinnai recommends installing the fire as close to the floor as possible. If the unit is installed higher up the wall the movement of air from the convection fan, depending on the room configuration, could create draughts.

Burn media
Choice of river stones or silky oak log set.

Convection fan
3-speed fan. Heat is distributed from the top of the appliance.

Data plate
Located inside the appliance, upper right hand side.

Gas connection
½ " BSP, the gas supply terminates inside the heater—lower left hand side of the appliance.

Ignition
Continuous spark electronic ignition.

Noise level - 37-45 dB(A)

Power flue
Inner 50 mm, outer 70~80 mm. Appliance must be installed with a Rinnai flue system.

Power consumption/electrical supply
High = 90 W
Standby = <8 W

This heater has a 1.5 m power cord with a three pin plug supplied. The power cord passes through a slot in the back left hand corner of the appliance.

Safety devices
Flame failure sensing system, pressure relief, overheat safety switch, air temperature sensor, thermal fuse, overcurrent fuse, and spark detector.

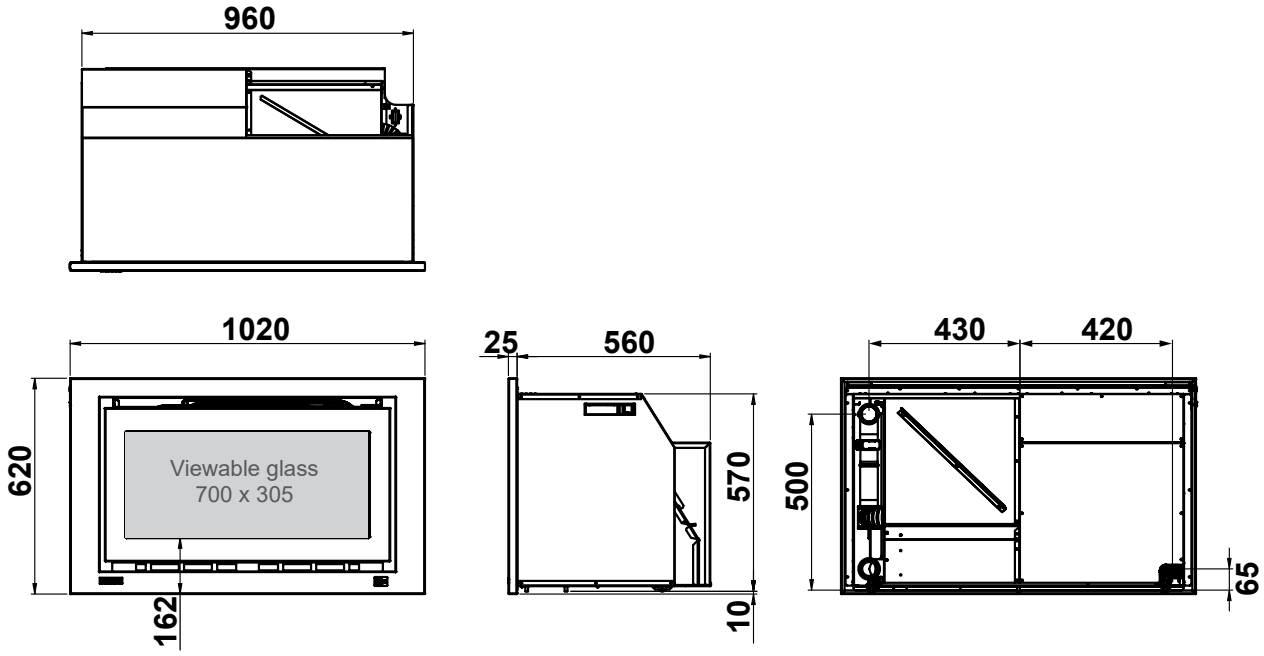
Temperature control
Operated by using the basic infra-red remote*, or for more features, such as timers and thermostatic control, using Rinnai's Wi-Fi fireplace controller app.

* Temp. sensor is located in the bottom of the remote

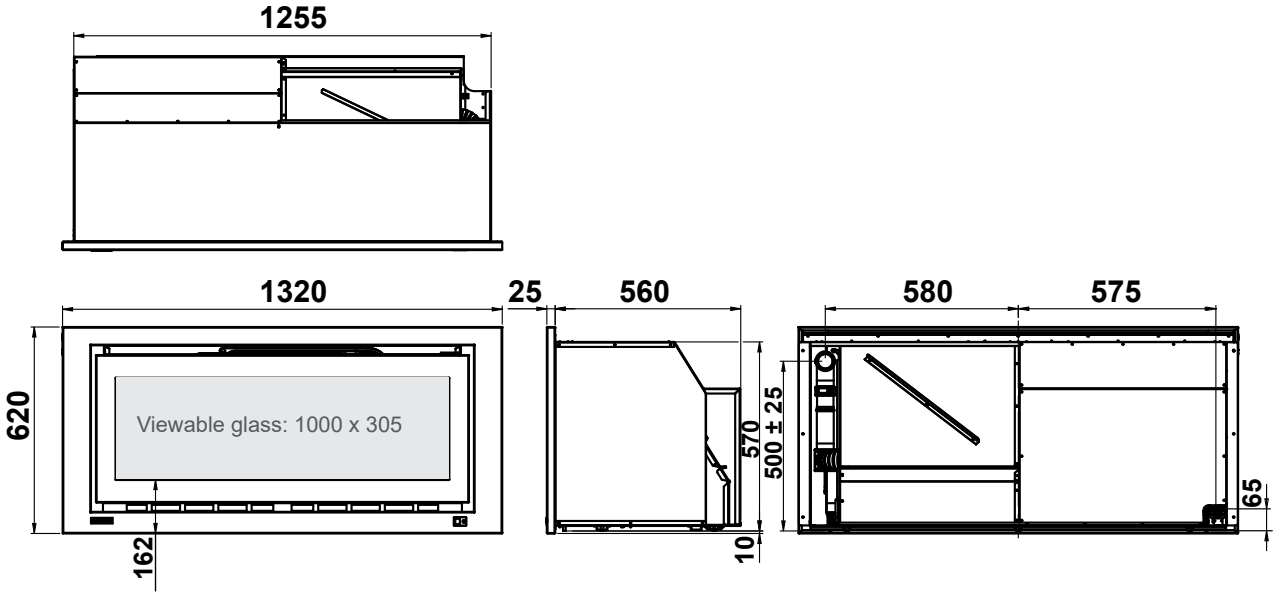
Weights
- Evolve 952: 75 kg
- Evolve 1253: 100 kg

Evolve 952 / 1253 Plus
dimensions (mm)

Evolve 952



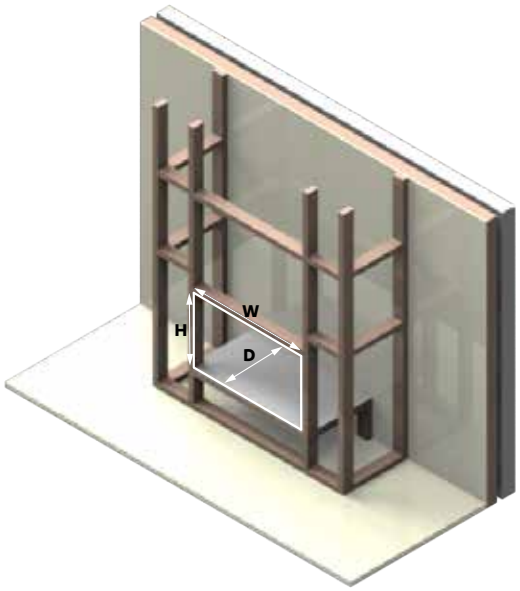
Evolve 1253 Plus



Evolve 952 / 1253 Plus
positioning

Framing dimensions
The main points governing location are flueing and warm air distribution. The Evolve has an integrated zero clearance box that isolates the appliance from combustible materials. This means it can be installed directly into a decorative fireplace constructed from materials such as wood or plaster..

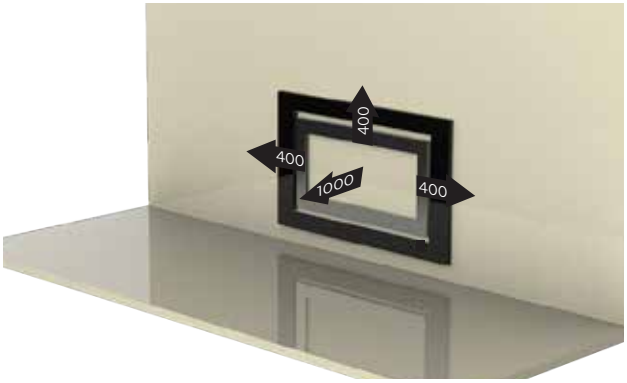
	952	1253
W - width	965-980 mm	1265-1280 mm
H - height	570-580 mm	570-580 mm
D - depth	570 mm min.	570 mm min.



Clearances from combustibles
The clearances are minimum clearances unless otherwise stated.

The Evolve must not be installed where curtains, furniture or other combustible materials could come into contact with the fire.

The 400 mm side clearance, measured from the edge of the glass, includes side walls. The 1000 mm clearance is in front of the fire.



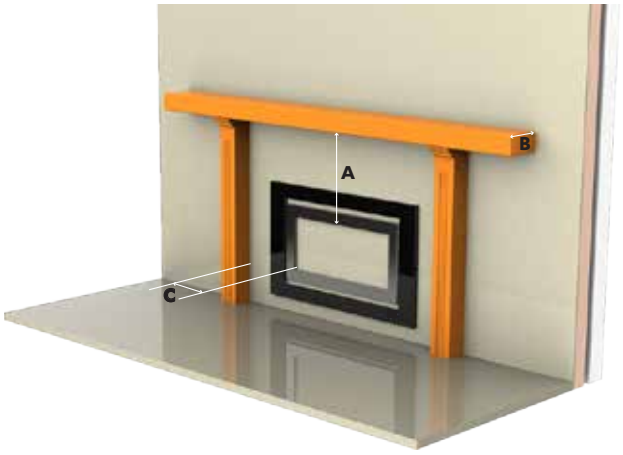
Mantels and surrounds
Mantels and surrounds, made of combustible materials, such as wood, are allowed providing they are outside the minimum clearances detailed.

A	Mantel needs to be a min. of 400 mm away from the edge of the glass
B	Max. mantel depth at 400 mm (A) is 250 mm
C	Surround needs to be a min. of 400 mm away from the edge of the glass

For every 50 mm of added mantel depth there must be an additional 100 mm of clearance from the edge of the glass.

For example:

Mantel depth	**A: Clearance required**
300 mm	500 mm
350 mm	600 mm
400 mm	700 mm



Hearths
A hearth is not necessary but can be used for decorative purposes or protection of sensitive flooring if required. The hearth, due to radiant heat from the fire, should be a non-combustible material and must not obscure the front of the fire or obstruct the fire in any way.

Evolve 952 / 1253 Plus
burn media, frames, and accessories

Silky oak logset
952: R2781 (8 log pieces)
1253: R2783 (10 log pieces)

Designed to look like split logs.

River stones
952: R2780 (30 stones)
1253: R2782 (40 stones)

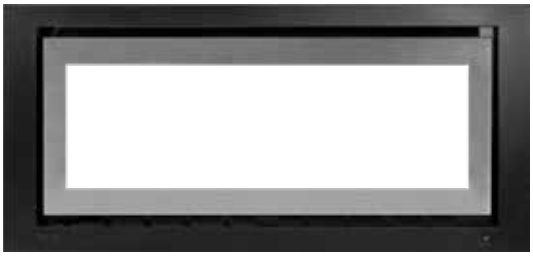
A mix of of varying sizes of grey ceramic river stones.

Black frame
952: R2704
1253: R2708

Black powder coated metal inner and outer frame.

Stainless steel on black frame
952: R2705
1253: R2709

Stainless steel inner frame, and black powder coated metal outer frame.



Mesh guard (black)
952: R2778
1253: R2788

Designed to protect against touching the hot surface of the glass. Sits flush with the inner frame, which holds it in place.

1253 black reflector panel kit
952: Not available for this model
1253: R2787

Black enamel reflector panels. Enhances the flame picture by producing a mirror image of the flames in the side panels.

Pinecone accessory kit
R2906 (both models)

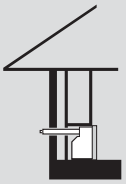
These specially moulded and hand-painted ceramic pinecones (two small, two medium, and one large) look just like the real thing to bring the ambiance of a woodland bonfire straight to your living room.

Evolve 952 / 1253 Plus
flueing options

Maximum flue length is 8.5 m[1], and the maximum number of bends is three

One 90° bend is 1 m. For every 90° bend the overall length must be reduced by 1 m. For example, if an installation has three 90° bends, the maximum length can be 5.5 m.

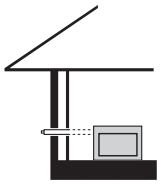
For lowest cost, optimal performance, ease of installation and servicing, Rinnai recommend direct flued installations are considered before all other options.



Direct and direct extended flueing
Direct through-the-wall flueing for walls up to 385 mm thick. Flue can be extended if the wall thickness is greater than 385 mm by using the ASPDFK flue kit and additional lengths of ESPIPE900.

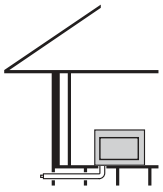
Direct
- Direct flue (ASPDFK)

Direct extended
- Direct flue (ASPDFK)
- Flue pipe (ESPIPE900)*



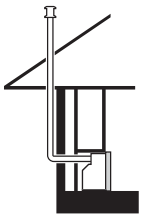
Sideways flueing
The sideways flue installation can run along the left or right hand side of an internal wall behind the unit. When considering the location of the fire ensure the flue path is free from obstructions such as studs, noggins, wiring, joists etc.

- Adaption flue (EVOKIT03)
- Flue pipe (ESPIPE900)*
- Wall terminal (ESWTERM)



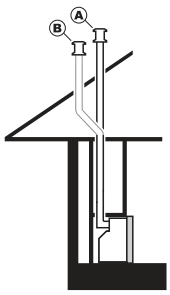
Down-and-out flueing
The down-and-out flue option allows for the adaption flue kit to face downwards and for the flue to run vertically through a hole in the floor, and then terminate horizontally outside (must be 300 mm above ground).

- Adaption flue (EVOKIT03)
- Flue pipe (ESPIPE900)*
- 45 ° bends (ESBEND)
- Wall terminal (ESWTERM)



Through-wall vertical flueing
For the small number of instances where the appliance cannot be directly flued or flued via an internal wall. In some cases a large portion of the flue may be visible from the outside.

- Direct flue (ASPDFK)
- 45 ° bends (ESBEND)
- Flue pipe (ESPIPE900)*
- Condensate trap (ESCONDK)
- Roof cowl (ESROOFCOWL)



In-wall vertical flueing
The vertical in-wall flue installation is installed against an internal wall within a false fireplace or other suitable cavity, and is run vertically upwards to a vertical or horizontal termination point.

A: Direct
- Adaption flue (EVOKIT03)
- Flue pipe (ESPIPE900)*
- Roof cowl (ESROOFCOWL)

B: Offset
- Adaption flue (EVOKIT03)
- Flue pipe (ESPIPE900)*
- 45 ° bends (ESBEND)
- Roof cowl (ESROOFCOWL)

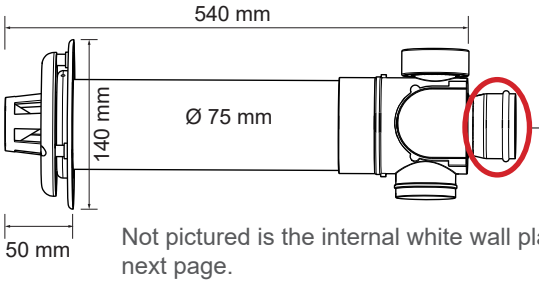
C: Horizontal termination
- Adaption flue (EVOKIT03)
- Flue pipe (ESPIPE900)*
- 45 ° bends (ESBEND)
- Wall terminal (ESWTERM)

* Installer to advise quantity required

[1] For systems that require the flue to extend past 8/8.5 m, there is a flue system available, with an increased diameter, that when fitted with a long flue adapter (LFADAPT), allows the flue to run to a maximum of 20 m. Contact Rinnai for more information.

Evolve 952 / 1253 Plus
flue components

Direct flue kit - ASPDFK (aluminium)
Suitable for walls up to 385 mm thick (can be cut to length). Can also be used with ESPIPE900 for longer flueing. The minimum length when measured from the back plate of the transition casting MUST NOT be less than 300 mm when joining to other components.

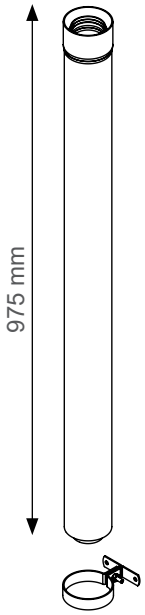


Flue transition
25 mm clearance
to combustibles

Not pictured is the internal white wall plate, refer render on next page.

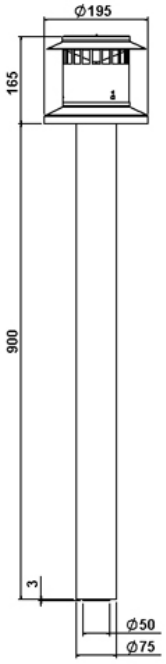
Flue pipe - ESPIPE900
Extension pipe used for horizontal, vertical, and downwards flueing. Can be cut to size at the non-socketed end.

Inner is aluminium, outer white PVC. Comes with a wall bracket, o-ring (4350), and spacer (4351).

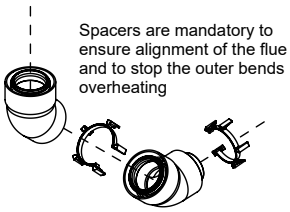


Roof terminal - ESROOFCOWL
Roof cowl and connecting pipe for termination of a vertical flue—can be cut to size. 500 mm clearance required from any part of the building, refer previous page.

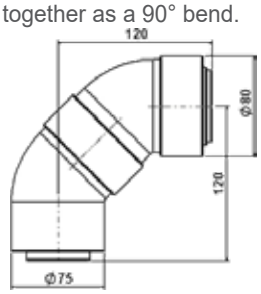
Galvanised steel, powder coated black



45° flue bends - ESBEND
Two bends in a kit. Can be used separately, or together as a 90° bend.

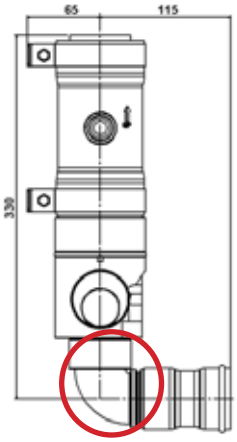


Spacers are mandatory to ensure alignment of the flue and to stop the outer bends overheating

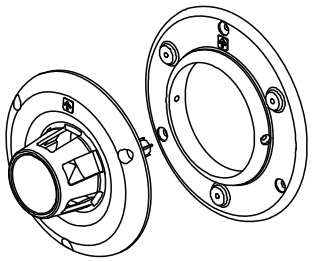


Evolve adaption flue kit - EVOKIT03
Elbow section of this component (circled) requires a 25 mm clearance from combustibles. Kit includes:

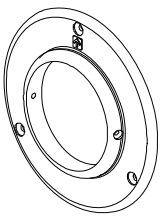
- flue transition (rotates)
- condensate trap
- wall strap
- drain tube (750 mm)
- o-ring silicone grease
- flue clamp (R4822)



Wall terminal kit - ESWTERM
Used to terminate the ESPIPE900 in horizontal flue installations when used with the adaption flue kit.

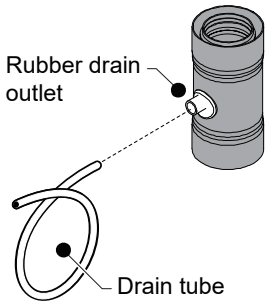


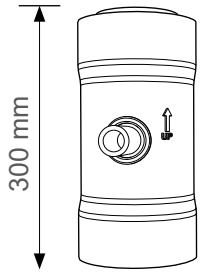
Wall plate - ESPLATE
Used in down and out flueing to cover the floor penetration, and also as an extra wall cover if required, to tidy up an installation. Outer diameter 170 mm.



Evolve 952 / 1253 Plus
flue components

Condensate trap - ESCONDK (aluminum)
Only ordered as a separate item if doing through wall vertical flueing, refer p.42. Supplied with a 750 mm drain tube.
When installed arrow MUST ALWAYS point up.





Renders

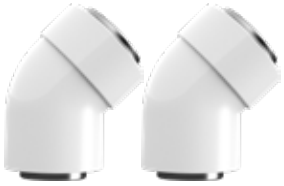
Direct ASPDFK flue

Roof cowl

Flue pipe

Adaption flue

45° bend kit



Condensate trap

Adaption flue

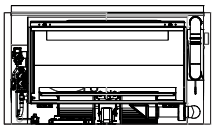
Wall plate

Steel flue guard (warm white)
R1370

Protection against hot flue gases when the termination is low to the ground. Colour - warm white.

- 220 x 220 mm (wall plate)
- Ø 146 mm

Evolve 952 / 1253 Plus
ordering guide

		Evolve 952	Evolve 1253 Plus
1. Select gas type (engine)			
	Evolve engine **NG**	RHFE952N	RHFE1253N
	Evolve engine **LPG**	RHFE952L	RHFE1253L
Supplied with the engine is the remote control with batteries, screw pack, cable tie, frame mounting screws, granule packs, and gas connection.			
2. Select frame option			
 	Black frame	R2704	R2708
	Stainless steel on black	R2705	R2709
3. Select burn media			
 	River stones	R2780	R2782
	Oak logset	R2781	R2783
4. Select flue components			
	Direct flue kit	ASPDFK	ASPDFK
	Evolve adaption flue kit	EVOKIT03	EVOKIT03
	Vertical terminal (roof cowl)	ESROOFCOWL	ESROOFCOWL
	Flue pipe 900 mm	ESPIPE900	ESPIPE900
	Wall terminal kit	ESWTERM	ESWTERM
	45 ° flue bends (two in a kit)	ESBEND	ESBEND
	Wall plate	ESPLATE	ESPLATE
	Steel flue guard	R1370	R1370
	Condensate trap	ESCONDK	ESCONDK
The condensate trap is included with the EVOKIT03. It only needs to be ordered separately if doing through-wall vertical flueing (not common).			
5. Select optional accessories			
	Black reflector panel kit	Not available for the 952	R2787
	Black mesh guard	R2778	R2788
	Pinecone accessory kit (5 ceramic pinecones)	R2906	R2906

Symmetry RDV3611
specification

Designed and made in New Zealand.

A direct vent inbuilt gas fireplace with a glass front and convection fan (top discharge). Operated with a remote control (7-day programmable timer).

Specification summary

Input:	19-33 MJ/h
Output:	3.8-7.5 kW*
Efficiency:	80%
Heating area:	up to 116 m2**
Gas type:	NG or ULPG

* Will vary according to gas type and flue configuration
** Will vary depending on geographical location in NZ

Suitability
Suitable for living rooms and open plan areas.

Recommended for a new build installation into a mock (false) chimney. It is not suitable for retrofitting into an existing masonry fireplace.

The Symmetry looks and performs best when installed close to the floor. If the unit is installed higher up the wall the movement of air from the convection fan, depending on the room configuration, could create draughts.

Room size consideration
Smaller rooms will heat up quickly, and due to the efficiency of the appliance, the heater will turn off once the set temperature has been reached.

Installation considerations
Maximum flue height is 5.4 m.

Burn media
Driftwood log set comes as standard.

Convection fan
Fan forced 2-speed convection fan (low and high). Heat is distributed from the top of the appliance.

Data plate
Centre front of base panel, behind the service panels.

Gas connection
½ “ BSP male flare. This connects straight into the gas control on the lower left hand side of the unit.

Ignition
Integrated sparker to pilot.

Noise level
37-45 dB(A)

Flue
Inner 100 mm, outer 170 mm.

Appliance must be installed with a Rinnai flue system.

Power consumption and electrical supply

High:	50 W
Standby:	<1 W

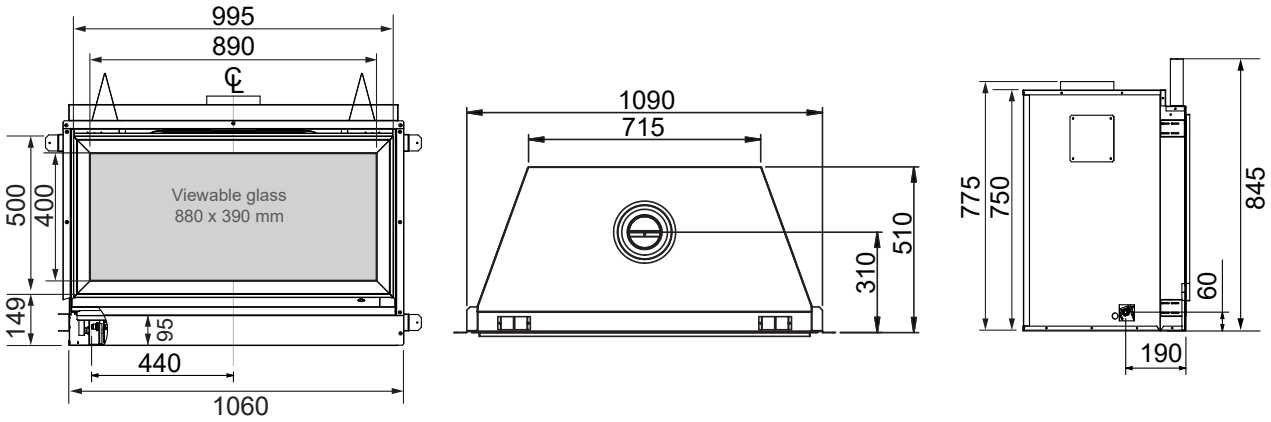
Comes with a 1.5 m power cord and 3-pin plug. The standard electrical connection is to the right hand side of the appliance.

Safety devices
Light to pilot, delayed ignition, overheat switch, electronic flame failure supervision, and combustion chamber relief.

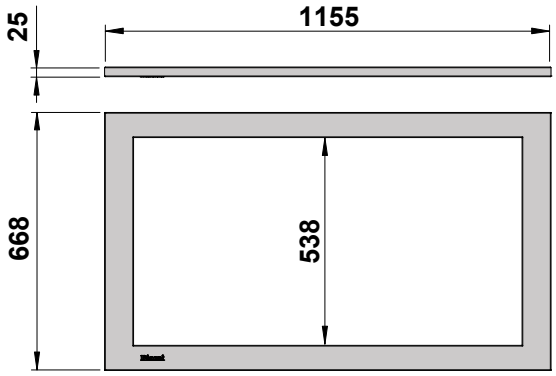
Temperature control
Thermostatic, temperature control range 7-32 °C.

Weight
60 kg

Symmetry RDV3611
dimensions (mm)



Premium flat metal outer frame



framing dimensions (mm)

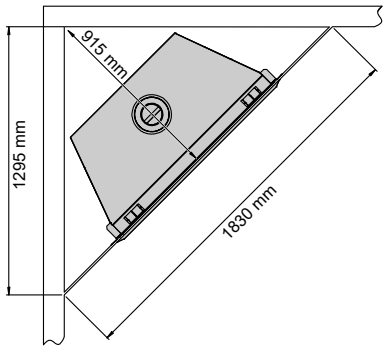
The main points governing location are flueing and warm air distribution.

The Symmetry has an integrated zero clearance box that isolates the appliance from combustible materials. This means it can be installed directly into a decorative fireplace constructed from materials such as wood or plaster.

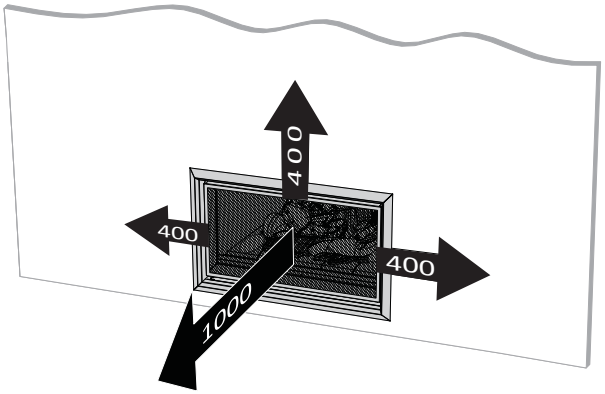
W-width: 1100-1125 mm
H-height: 850 mm min.
D - depth: 540 mm min.

Symmetry RDV3611
positioning

Corner installations
This diagram highlights the minimum dimensions required. Refer previous page for height dimension.



Clearances
The clearances, measured from the edge of the glass, are the minimum clearances unless otherwise stated. The 400 mm side clearance includes side walls. The Symmetry must not be installed where curtains or other combustible materials could come into contact with the unit while it is operating.



Wall surface above the fire
The temperature of the wall surface directly above the fire may get warm and distort paint finishes, or distort vinyl wall coverings. For durability of surfaces, please contact the manufacturer for their specification.

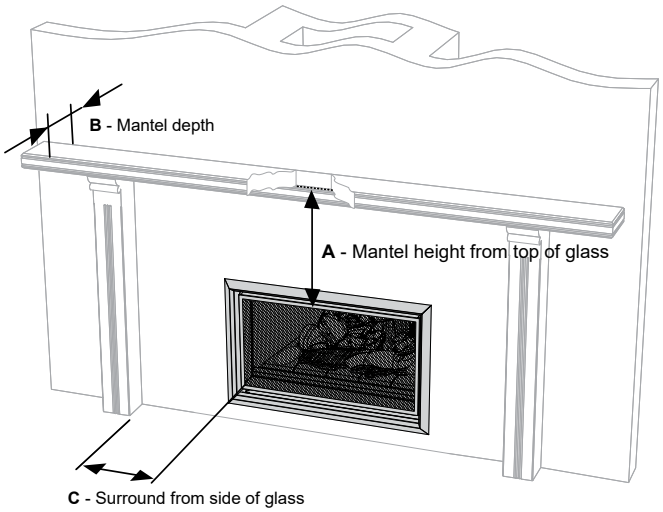
Mantels and surrounds
Mantels and surrounds, made of combustible materials, such as wood, are allowed providing they are outside the minimum clearances detailed.

A	Mantel needs to be a min. of 400 mm away from the edge of the glass
B	Max. mantel depth at 400 mm (A) is 250 mm
C	Surround needs to be a min. of 400 mm away from the edge of the glass

For every 50 mm of added mantel depth there must be an additional 100 mm of clearance from the edge of the glass.

For example:

Mantel depth	**A: Clearance required**
300 mm	500 mm
350 mm	600 mm
400 mm	700 mm



Hearths
A hearth is not necessary but can be used for decorative purposes or protection of sensitive flooring if required. The hearth, due to radiant heat from the fire, should be a non-combustible material and must not obscure the front of the fire or obstruct the fire in any way.

Symmetry RDV3611
frame, dress guard, and accessories

Black on black premium flat frame
R3602

Black inner and black outer frame.

Symmetry dress guard
13626

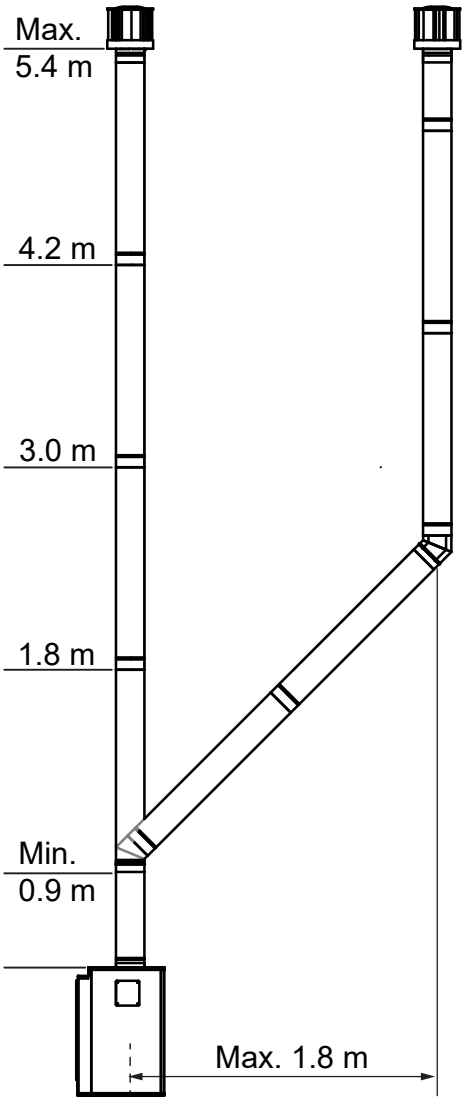
Black integrated mesh—to prevent from touching the surface of the hot glass. Suitable for the R3602 frame only.

Pinecone accessory kit
R2906

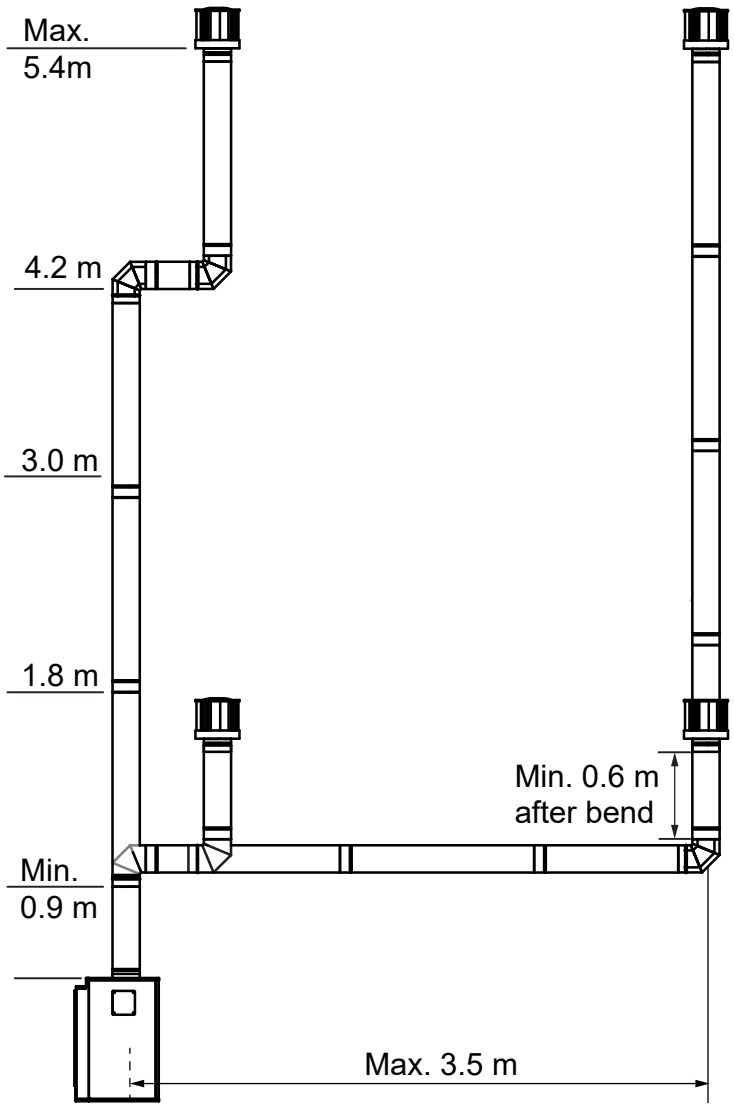
These specially moulded and hand-painted ceramic pinecones (two small, two medium, and one large) look just like the real thing to bring the ambiance of a woodland bonfire straight to your living room.

Symmetry RDV3611

flueing options - vertical termination



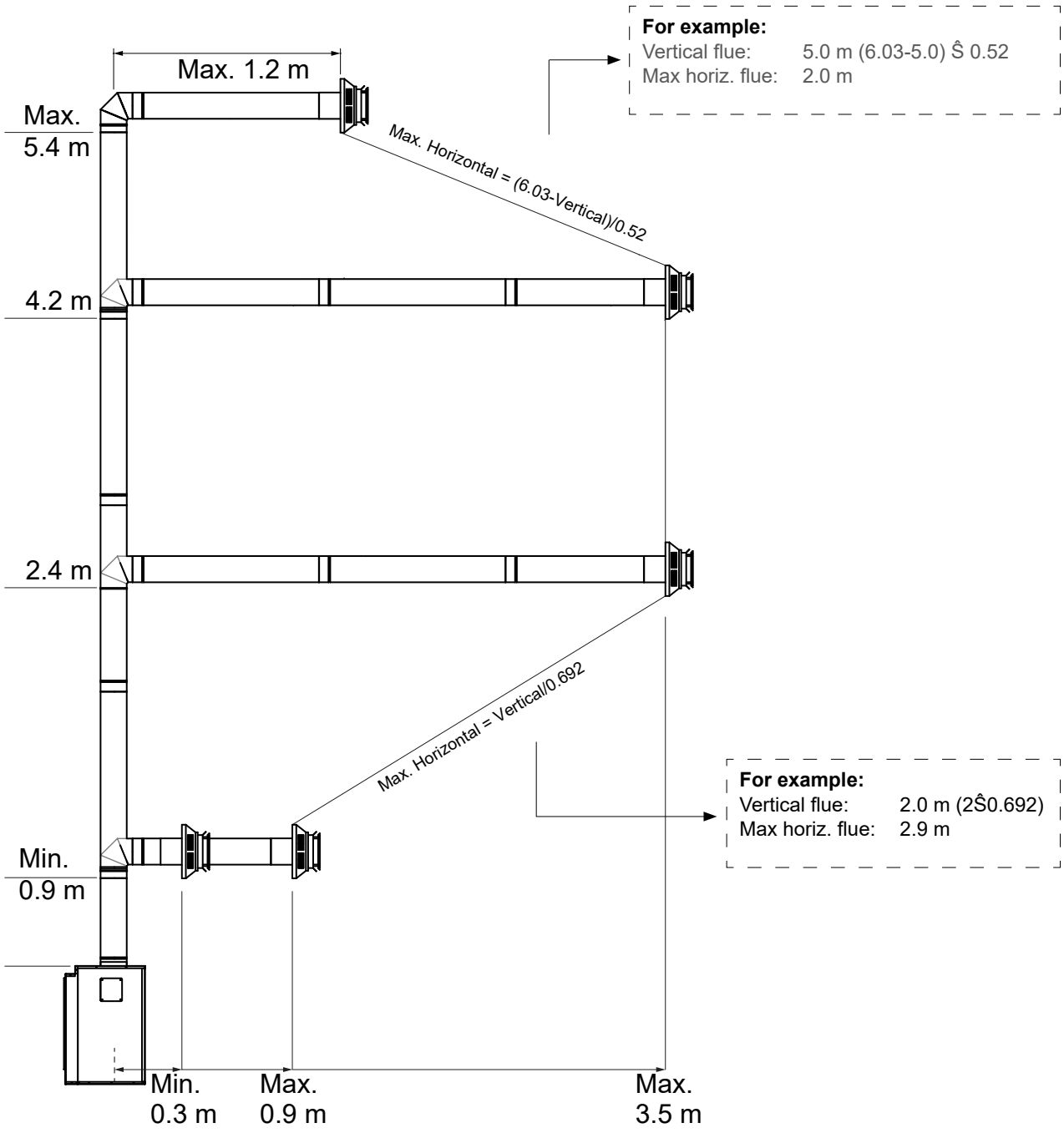
Maximum number of 45° bends = 2



Maximum number of 90° bends = 2

Symmetry RDV3611

flueing options - horizontal termination



Maximum number of 90° bends = 1

The shaded regions determine the position of the flue restrictor.

Symmetry RDV3611

flue kits (cannot be cut to size)

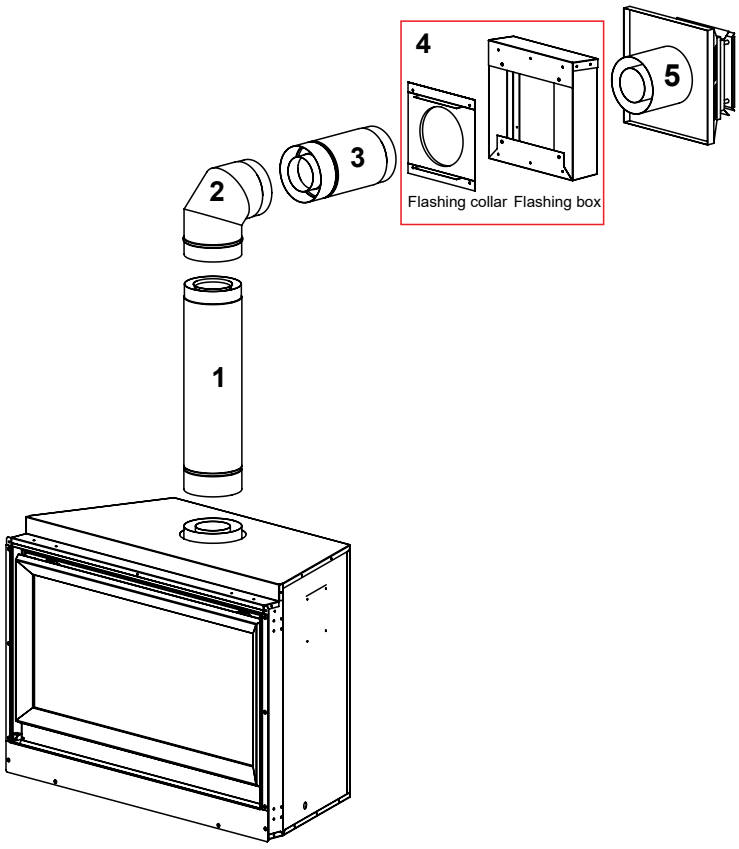
Symmetry RDV3611 flue kits have been based on the flue configurations shown. If you have a combined vertical and horizontal flue configuration you can order separate components to suit.

RDV3611 Flue Kit Horizontal (short, R3660)

1. Flue pipe 900 mm x 1
2. Elbow 90° x 1
3. Flue pipe 300 mm x 1
4. Horizontal flashing kit x 1
5. Wall terminal x 1

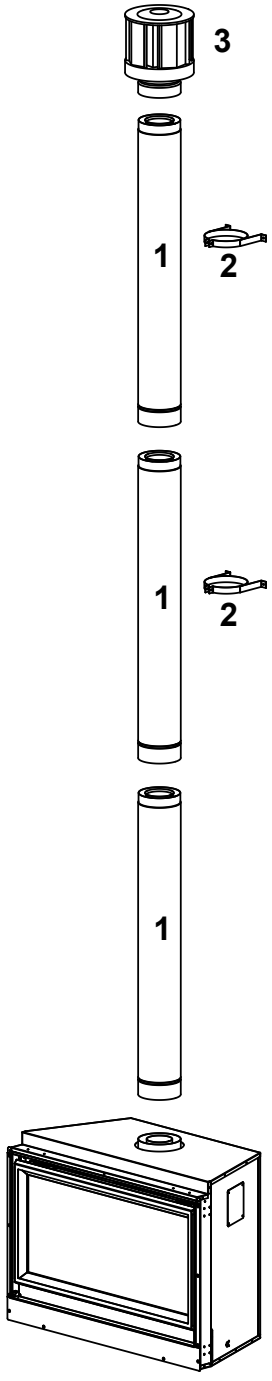
RDV3611 Flue Kit Horizontal B (long, R3661)

1. Flue pipe 900 mm x 1
2. Elbow 90° x 1
3. Flue pipe 230 mm x 2
4. Horizontal flashing kit x 1
5. Wall terminal x 1



RDV3611 Flue Kit Vertical 3.6 m (R3665)

1. Flue pipe 1.2 m x 3
2. Wall strap x 2
3. Roof cowl x 1

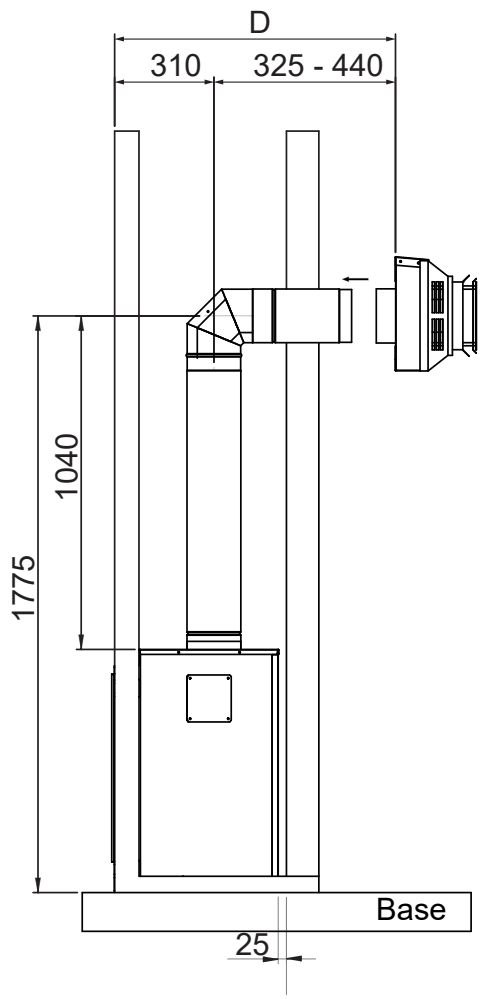


Symmetry RDV3611

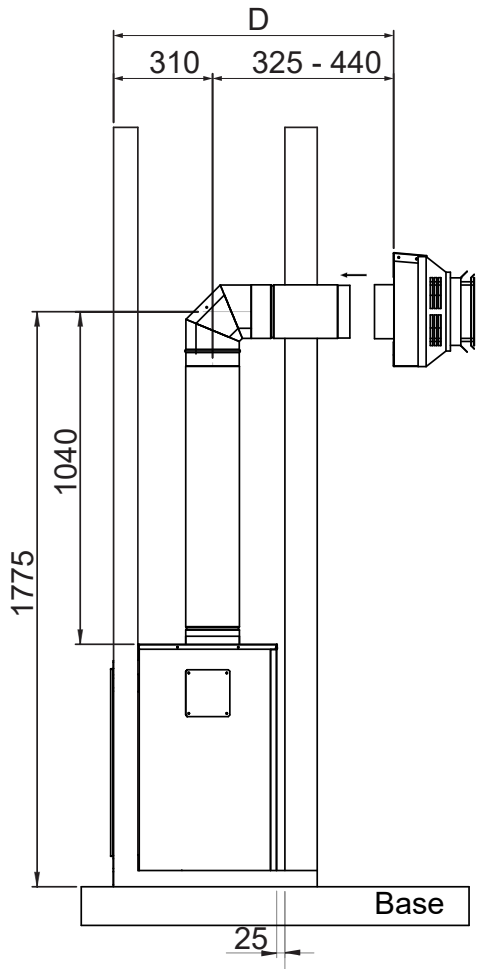
horizontal flue kits details (cannot be cut to size)

The following diagram explains the components, dimensions (mm), and appropriate flue kits available for differing horizontal flue installations. Refer to the table below to calculate what flue pipe length and/or kit you may need.

RDV3611 Short Horiz. Flue Kit A (R3660)



RDV3611 Long Horiz. Flue Kit B (R3661)



Distance from the appliance to the cowl

Flue Kit	Horizontal flue	D
	230 mm pipe	560-675 mm
Short A	300 mm pipe	635-750 mm
Long B	230 mm pipe x 2	745-860 mm
	300 mm + 230 mm pipe	825-940 mm
	300 mm pipe x 2	895-1010 mm

- Adjust the distance by sliding the cowl on the pipe
- At its maximum position the cowl should still keep a 45 mm overlap.

Symmetry RDV3611
flue components

RDV3611 flue pipes

150 mm:	R3630
230 mm:	R3631
300 mm:	R3632
450 mm:	R3633
600 mm:	R3634
900 mm:	R3635
1200mm:	R3636

Pipe used to construct horizontal and vertical flueing. Cannot be cut to size. Once joined nominal length reduces approx. 35 mm.

Inner: Aluminium
Outer: Galvanised steel

Thru-wall plate interior (R3645)
Interior through-wall plate for internal wall passes. Centres and ensures suitable clearances from combustibles.

Flue extension

75-175 mm:	R3638
75-360 mm:	R3639

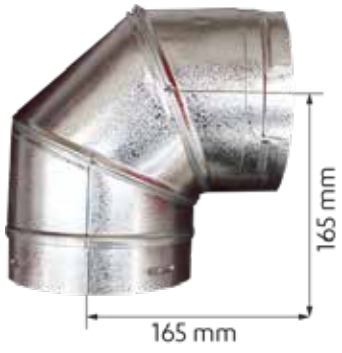
Used for extended straight lengths of flue. Available in two lengths—extending to 175 mm or 360 mm.

Inner: Aluminium
Outer: Galvanised steel

RDV3611 flue elbow 90° (R3643)
Used to facilitate between vertical and horizontal flueing. Elbow swivels 360 ° at base. Angle not adjustable.

Once joined effective length reduces 35 mm to approx. 130 mm.

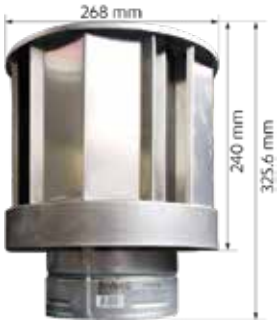
Inner: Aluminium
Outer: Galvanised steel



Flue restrictor (11516)
Supplied with the unit.

Maintains efficiency by restricting air flow through the unit as flue length and flue pull increases.

Roof cowl (R3651)
Aluminium flue terminal required for all vertical flue installations.



High wind vertical cowl protection kit (R3655)
For windy areas such as Wellington, coastal properties, and elevated properties on hills. Designed to wrap around the vertical cowl to reduce wind entering the flue and causing flame disturbances. It is fitted to the cowl and can be retrofitted.

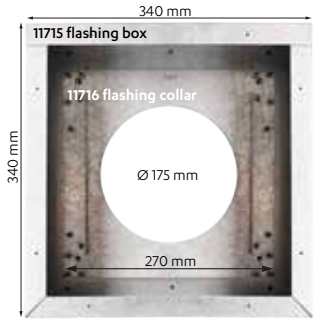
Construction = stainless steel

Horizontal wall terminal (R3650)
Aluminium flue terminal required for all horizontal installations.

Depth with horizontal flashing kit installed - 252 mm.

Horizontal flashing kit (R3646)
Flashing components used to join the internal flue to the outside flue—Refer horizontal wall terminal for installed dimensions.

Box depth 100 mm.



Wall strap (R3647)
Adjustable strap used in interior/exterior installations to add lateral support to the flue.

Provides a 50-200 mm clearance to combustible walls.

Elbow strap (R3644)
Flue support for elbow and offsets.

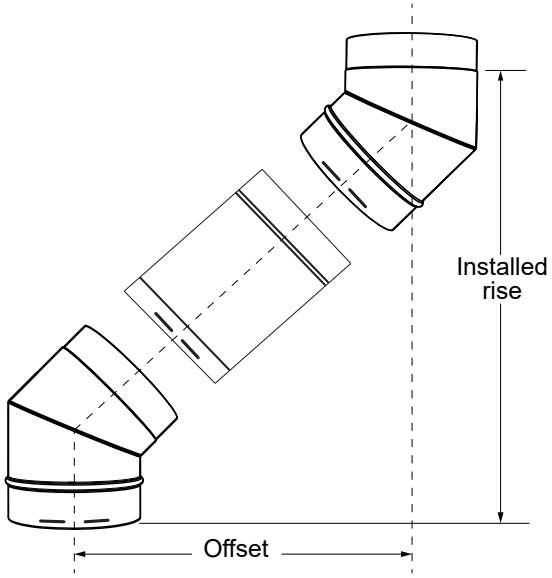
RDV3611 flue elbow 45 ° (x2)

Code: R3642

Offsets obstructions. Elbow swivels 360 ° at base. Angle not adjustable. Kit contains two 45 ° bends.

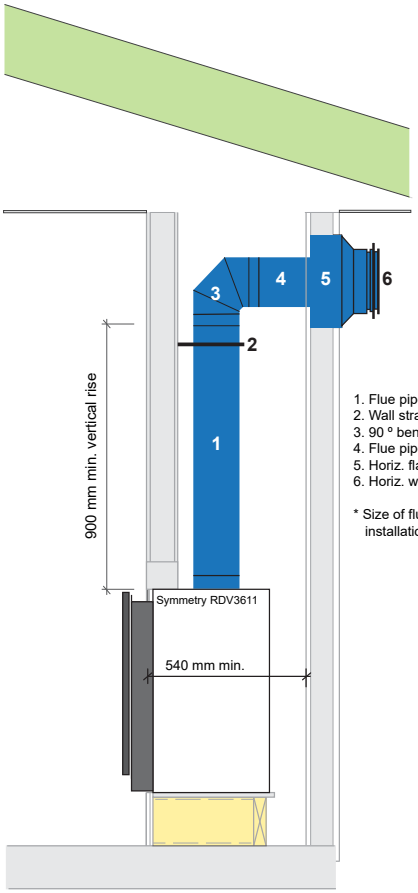
Once joined effective length reduces 35 mm to approx. 73 mm.

Inner: Aluminium
Outer: Galvanised steel



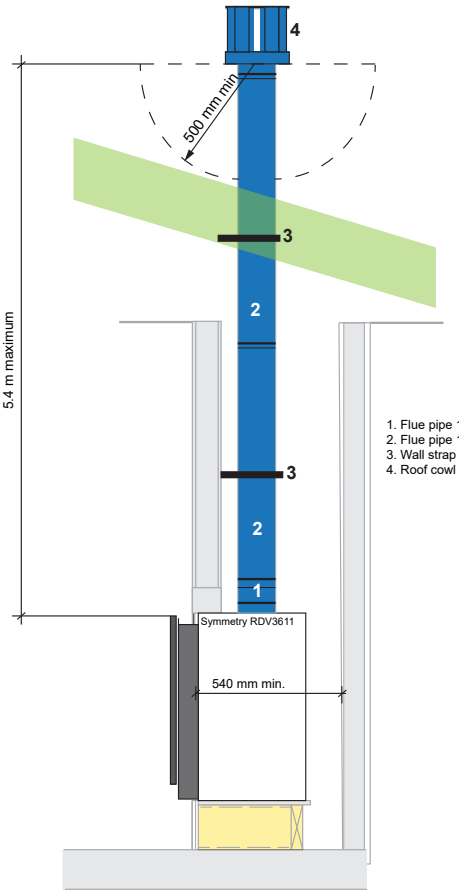
Flue pipe (length and code)		Offset	Rise
None (bend to bend)	N/A	124 mm	340 mm
150 mm	R3630	203 mm	419 mm
230 mm	R3631	257 mm	473 mm
300 mm	R3632	311 mm	527 mm
450 mm	R3633	417 mm	633 mm
600 mm	R3634	524 mm	740 mm
900 mm	R3635	737 mm	953 mm
1200 mm	R3636	949 mm	1165 mm

Symmetry RDV3611
flueing examples



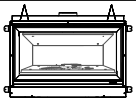
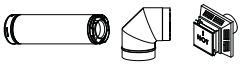
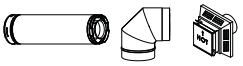
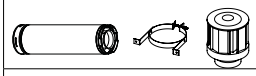
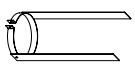
1. Flue pipe 900 mm (R3635)
2. Wall strap (R3647)
3. 90 º bend (R3643)
4. Flue pipe*
5. Horiz. flashing kit (R3646)
6. Horiz. wall terminal (R3650)

* Size of flue pipe will depend on the installation.



1. Flue pipe 150 mm (R3630)
2. Flue pipe 1200 mm (R3636)
3. Wall strap (R3647)
4. Roof cowl (R3651)

Symmetry RDV3611
ordering guide

1. Select **gas type** (engine)		
	Symmetry RDV3611 engine **NG**	RDV3611ETRN
	Symmetry RDV3611 engine **LPG**	RDV3611ETRL
Supplied with the engine is the remote control and batteries,remote control mounting bracket, lintel spacers, securing bracket and screws, flue restrictor, frame mounting screws, and log set.		
2. Select frame option		
	Premium frame - black on black	R3602
3. Select flue kit and/or flue components		
	Flue kit horizontal short - A*	R3660
	Flue kit horizontal short - B**	R3661
	Flue kit vertical 3.6 m	R3665
	Horizontal flashing kit	R3646
	Wall terminal	R3650
	Roof cowl	R3651
	Flue elbow 90 °	R3643
	Flue elbow 45 ° (two in a kit)	R3642
	Flue pipe 150 mm Flue pipe 230 mm Flue pipe 300 mm Flue pipe 450 mm Flue pipe 600 mm Flue pipe 900 mm Flue pipe 1200 mm	R3630 R3631 R3632 R3633 R3634 R3635 R3636
	Flue ext. 75-175mm Flue ext. 75-360mm	R3638 R3639
	Thru-wall plate interior	R3645
	Wall flue strap	R3647
	Elbow flue strap	R3644
*Flue kit horizontal short - A: 635-750 mm frame to outside wall	** Flue kit horizontal short - B: 745-860 mm frame to outside wall	
4. Select optional accessories		
	Flat frame mesh guard	13626
	Pinecone accessory kit (5 ceramic pinecones)	R2906

Novo Inbuilt
specification

Designed and made in New Zealand.

A direct vent (room sealed) inbuilt gas fireplace with a glass front and convection fan, pushing warm air from the top of the appliance. Operated using a simple IR remote to control flame height and fan speed, or by the Rinnai Wi-Fi app (optional accessory) that allows full thermostatic control, as well as other features such as timers.

Input:	14-30 MJ/h	Output:	3.6-6.6 kW*
Efficiency:	77%	Heating area:	65-112 m²**
Gas type:	NG or ULPG		

* Will vary according to gas type and flue configuration
** Will vary depending on location in NZ

Suitability	Suitable for masonry, or mock chimney installations, in open plan areas and living rooms. As a room sealed appliance it can also be installed in larger bedrooms if this meets 6.10.6.1 requirements of AS/NZS 5601.1.
Installation considerations	Consider the room size. Smaller rooms will heat up quickly, and due to the heat of the appliance, the fire will reduce to a low flame setting once the set temperature has been reached.
Frame options	Standard, or classic bronze frame.
Data plate position	Lower RHS of the base panel
Convection fan	120 V AC 50 Hz 2-speed centrifugal blower
Gas connection	Brass ½ “ BSPT male fitting. The gas supply terminates inside the unit—lower RHS of the appliance.
Ignition	230-240 V AC 50 Hz high voltage electronic spark generation.
Flueing	The Novo must be installed with a Rinnai approved direct vent flue system. The two flue systems are: **Masonry chimney**: Colinear[1] DV flexi flue, air intake Ø75 mm, exhaust Ø100 mm **Mock chimney**: Coaxial[2] DV flue, inner Ø100 mm, outer Ø170 mm
Noise level	37 - 45 dB(A)
Electrical	1.5 m power cord with a 3-pin plug is supplied. The power cord passes through a slot in the back left hand corner of the appliance. High - 50 W, standby - <3 W
Safety devices	Flame failure sensing system, pressure relief, overheat safety switch, air temperature sensor, thermal fuse, overcurrent fuse, and spark detection.
Weight	64 kg

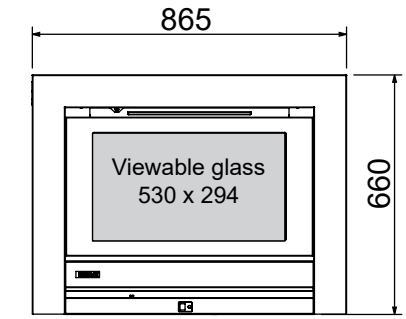
[1] Colinear: Uses TWO separate flexible aluminium chimney liners as the flue system
[2] Coaxial: One flue, the exhaust flue is nested inside the air intake flue—these are rigid flues

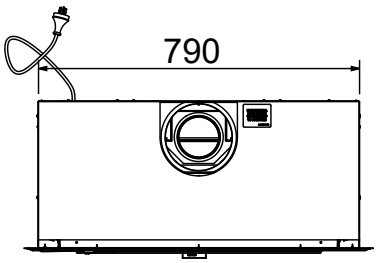
Colinear

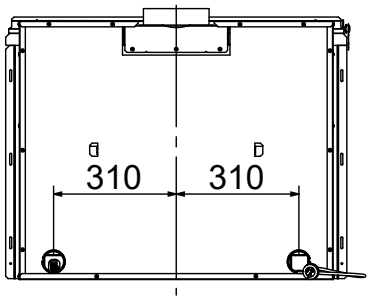
Coaxial

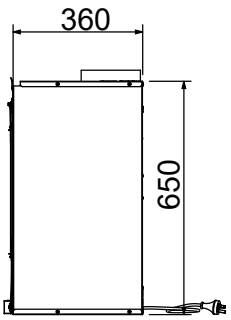
Novo Inbuilt
unit dimensions (mm)

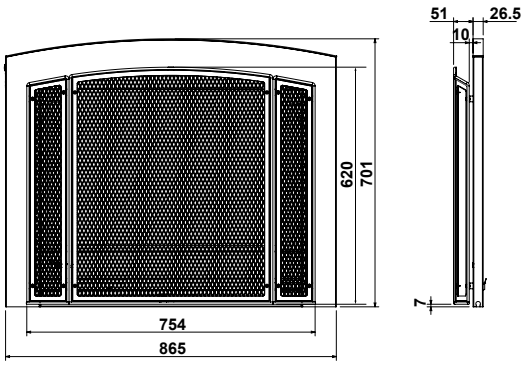
Coaxial in timber



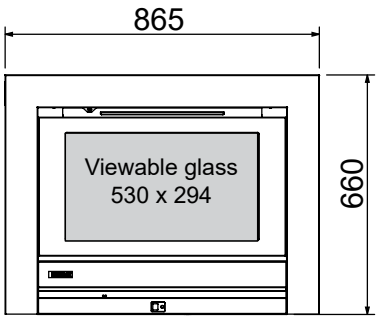


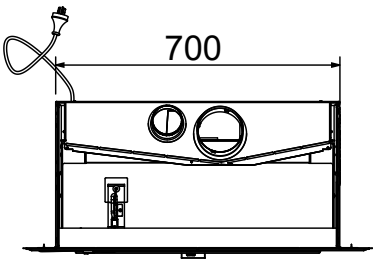


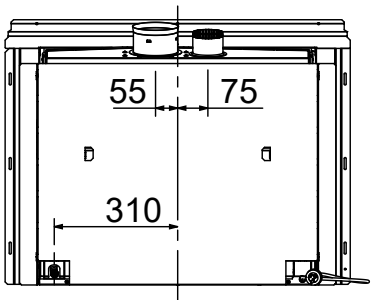


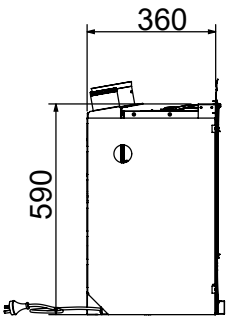


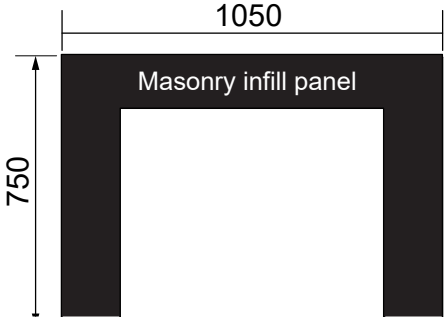
Colinear in masonry











Novo Inbuilt
positioning

Combustible clearances
The Novo must not be installed where curtains, furniture, or other combustible materials could come into contact with the fire while it is operating. The 400 mm side clearance, measured from the edge of the glass, includes side walls. The 1000 mm clearance is in front of the fire.

Hearths
A hearth is not necessary but can be used for decorative purposes. It must not obscure the front of the fire or obstruct the fire in any way.

Flooring and hearth material selection
The temperature in front of the Novo can reach up to 40 °C above ambient, which is why material selection is important. For example we know that vinyl planks are only rated for ambient temperatures, the Novo would not be suitable in this instance for installation directly on the floor. For more information and guidelines about material selection, refer p.67.

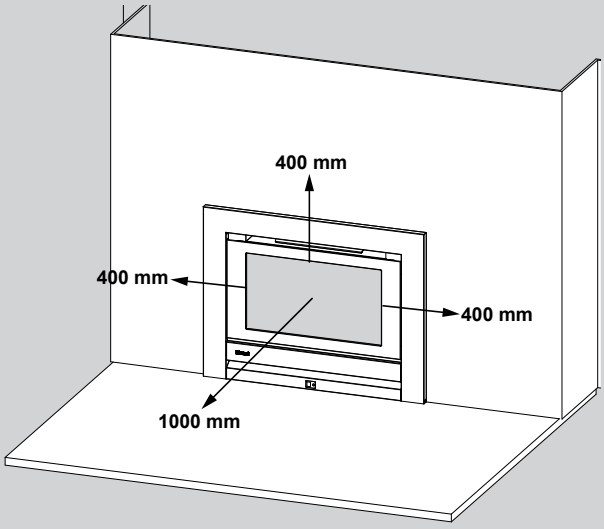
Floor protection
Heat radiating from the fire may affect the appearance of some materials used for flooring such as vinyl planks (as mentioned above), carpet[1], cork, or timber. To avoid this occurring it is recommended a mat be placed in front.

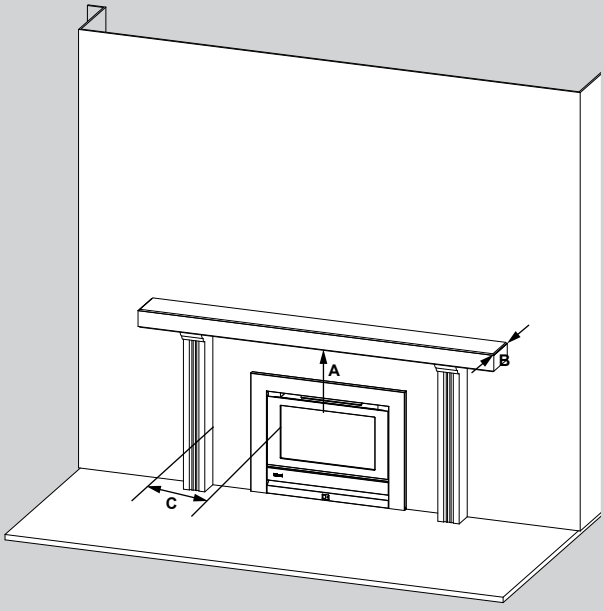
[1] Carpet cannot be fitted hard up against the fire as it will affect operation.

Mantles and surrounds
Combustible mantels and surrounds require clearance from the unit to minimise the risk of fire. They are allowed providing they are outside the minimum clearances shown.

The Novo gas fireplace is not designed to be built into bookcases.

TV installation
The Novo has a fan that distributes warm air from the top of the appliance out into the room. As warm air is dispersed outwards and not directly upwards, installation of a TV may be an option. For more information refer to the Novo Inbuilt installation guide.





A	Mantel needs to be a min. of 400 mm away from the edge of the glass
B	Max. mantel depth at 400 mm (A) is 250 mm
C	Surround needs to be a minimum of 150 mm away from the edge of the glass

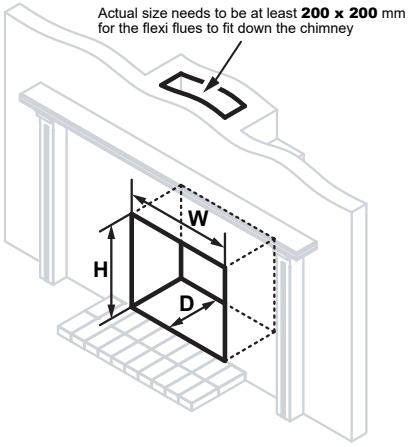
For every 50 mm of added mantel depth there must be an additional 100 mm of clearance from the edge of the glass. For example:

Mantel depth	Vertical clearance req. (A)
300 mm	500 mm
350 mm	600 mm
400 mm	700 mm

Novo Inbuilt
enclosure dimensions (mm)

The Novo must be positioned within the enclosure on a level surface that allows free movement of the appliance. The enclosure must be capable of supporting 1.5 times the weight of the unit.

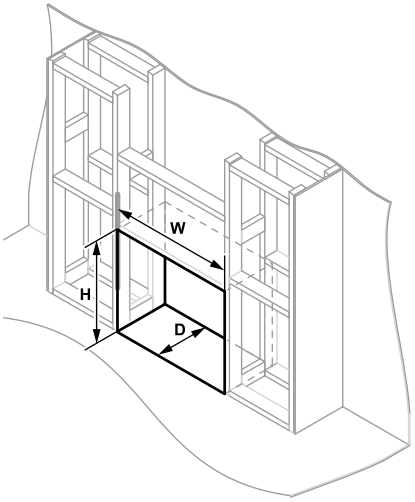
Masonry



Enclosure dimensions		With infill panel
W-width	700 mm	700-1030 mm
H-height	600 mm	600-740 mm
D-depth	370 mm min.	370 mm min.

Enclosure dimensions can be larger if using an infill panel. This is a panel for masonry installations where the cavity is slightly larger than the frame.

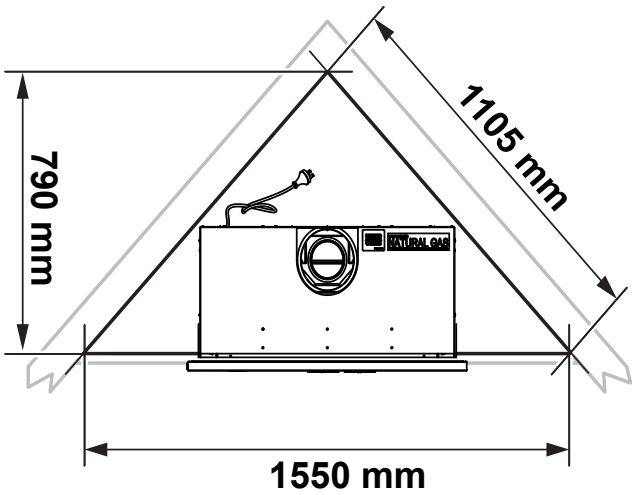
Mock chimney



Enclosure dimensions	
W-width	800 mm
H-height	655 mm
D-depth	370 mm min.

This installation has a zero clearance box (comes with the fire). The total cavity depth must also include the thickness of the external cladding as the zero clearance box front flange is set forward to allow the wall lining and flange to be flush when finished.

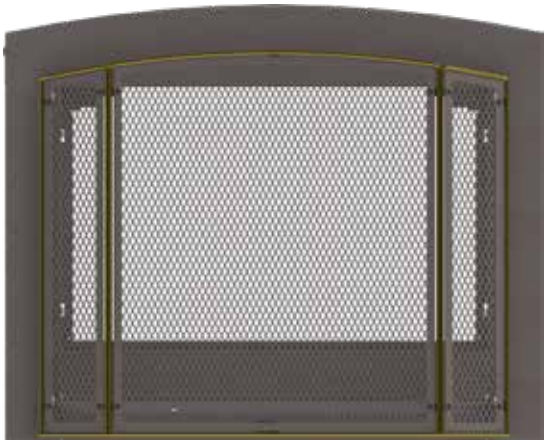
Corner installations



Novo Inbuilt
accessories

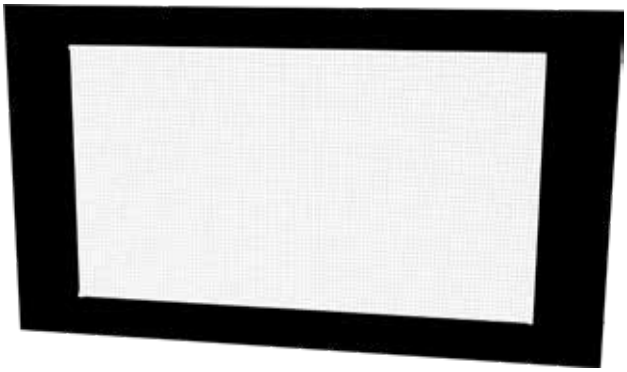
Novo Inbuilt classic bronze frame
R2380

Designed to complement older villa style homes. The classic frame is curved and comes with a inset bronze dress guard and a black inner frame.



Novo Inbuilt mesh frame
R2370

The Novo Inbuilt black mesh frame is an accessory for the Novo black standard frame. The black integrated mesh guard can be easily installed, no fixing required. It is designed to protect against touching the hot surface of the glass[1].



Novo Inbuilt masonry infill panel
R2373

Black powder coated panel for masonry installations where the cavity is slightly larger than the frame. The panel will cover the gap behind the fire and the standard rectangular frame. It is not suitable for use with the classic bronze frame.

Wi-Fi module retrofit kit
R7000

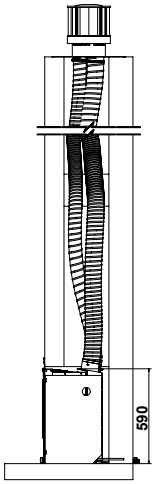
The Rinnai R7000 Wi-Fi board retrofit kit enables the fire to be connected to the Rinnai Fire Wi-Fi App for full thermostatic control, as well as other features such as timers. Ideally fitted at the time of installation.

[1] The mesh will still get very hot. If you are wanting to stop young hands from getting near the unit, we would recommend a guard in front of the fire.

Novo Inbuilt
flueing options

Every gas fire requires a flue system that will draw effectively and clear flue products safely under all potential wind and climatic conditions. It is the responsibility of the installer to ensure the appliance is provided with an effective flue.

The Novo MUST BE installed with a Rinnai approved flue system, approved components are shown in this guide.



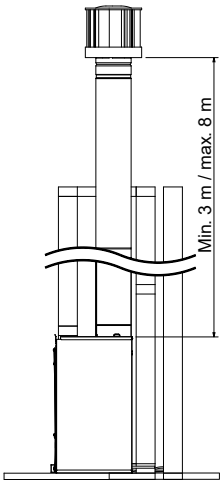
Masonry vertical
Colinear aluminium flexi flues with a Duravent cowl.

For installations in a masonry fireplace. Extends out to 5.5 m. If longer flueing is required then the colinear flexi flue extension kit needs to be ordered.

- Minimum flue length - 3 m
- Maximum flue length - 8 m

Flue components
R3656
Masonry flue kit vertical 5.5 m DV.

R3657
Masonry vertical flexi flue extension kit 2.5 m DV.



Mock chimney vertical straight
Coaxial flue with a Duravent cowl.

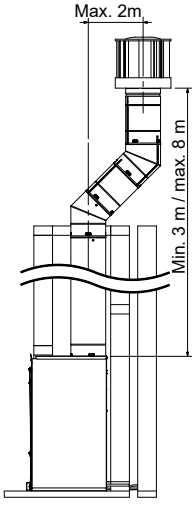
For installations into a combustible opening, where the flue runs vertically in-wall and terminates vertically.

If doing a short vertical flue (no bends) for a single storey dwelling, the mock chimney vertical flue kit 3.6 m can be used otherwise the flue components can be ordered separately.

Flue components
R3665
Coaxial vertical flue kit 3.6 m.

Individual components
1. Flue pipes or flue extension, refer following pages.

2. Roof cowl (R3651)



Mock chimney vertical offset
Coaxial flue with a Duravent cowl.

For installations into a combustible opening, where the flue runs vertically in-wall, offsets with 45 degree bends and terminates vertically.

- Maximum number of 45° bends is two

There is no flue kit for this installation, individual flue components are required.

Minimum of 0.9 m of straight flue pipe before any bends.

Flue components
Individual components
1. Flue pipes or flue extension, refer following pages.

2. Flue elbow 45° (R3642)

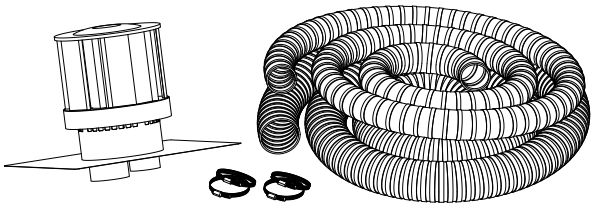
3. Roof cowl (R3651)

Novo Inbuilt
flue kits and components

Masonry flexi flue kit vertical 5.5 m DV
Code: R3656

For installations in a masonry fireplace. Extends out to 5.5 m. If longer flueing is required then the colinear flexi flue extension kit needs to be ordered.

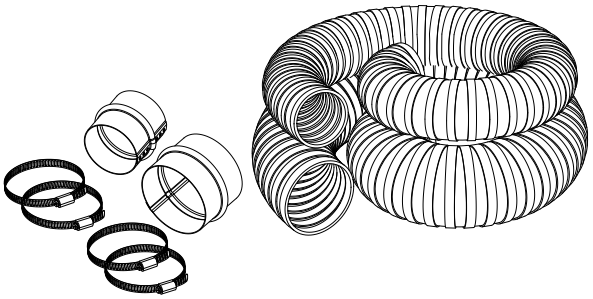
Kit includes:
- aluminium colinear roof cowl DV
- chimney plate 455 x 455 mm
- intake flexi Ø75 mm (LHS)
- exhaust flexi Ø100 mm (RHS)
- 2 x Ø75 mm flue clamps stainless steel
- 2 x Ø100 mm flue clamps stainless steel



Masonry flexi flue extension kit 2.5 m DV
Code: R3657

When flueing needs to extend beyond 5.5 m.

Kit includes:
- intake flexi Ø75 mm (LHS)
- exhaust flexi Ø100 mm (RHS)
- 2 x joiners
- 2 x Ø75 mm flue clamps stainless steel
- 2 x Ø100 mm flue clamps stainless steel

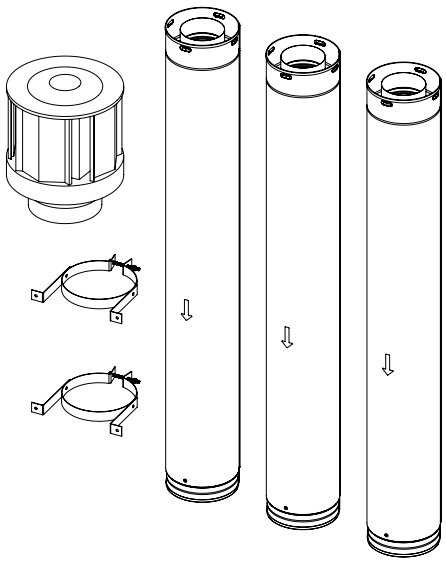


Coaxial vertical flue kit 3.6 m DV
Code: R3665

For installations in a mock chimney installation.

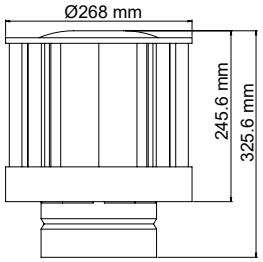
Kit includes:
- coaxial vertical roof cowl (R3651)
- 3 x 1200 mm flue pipes (R3636)
- 2 x wall straps (R3647)

If longer flueing is required order additional lengths of flue pipe.



Coaxial vertical flue cowl DV
Code: R3651

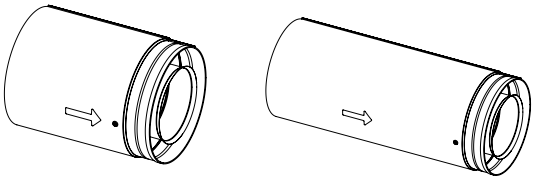
Aluminium flue terminal required for all coaxial vertical flue installations.



Coaxial flue pipe extensions
Code: R3638 75-175 mm
Code: R3639 75-360 mm

Used for extended straight lengths of flue. Available in two lengths. Cannot be cut to size.

- Inner aluminum Ø100 mm
- Outer galvanised steel Ø170 mm



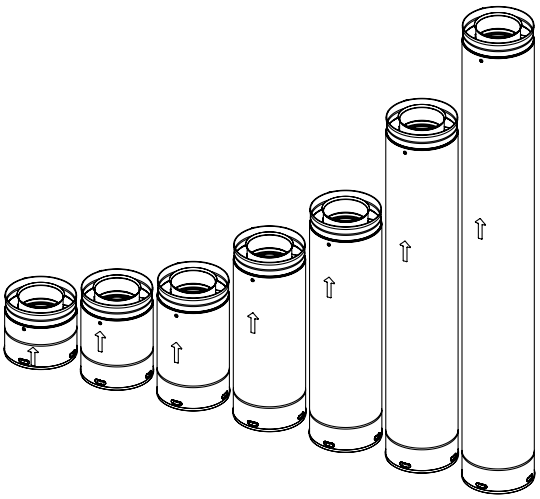
Coaxial flue pipes DV

Interlocking. CANNOT be cut to size.

Once joined nominal length reduces approximately 35 mm.

- Inner: Aluminium Ø100 mm
- Outer: Galvanised steel Ø170 mm

150 mm	R3630
230 mm	R3631
300 mm	R3632
450 mm	R3633
600 mm	R3634
900 mm	R3635
1200 mm	R3636



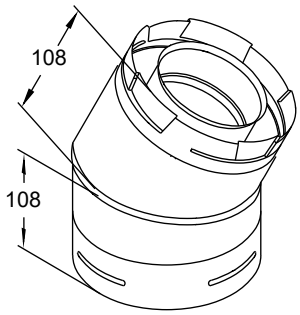
Coaxial 45° flue elbows (two bends in a kit)

Code: R3642

Offsets obstructions. Elbow swivels 360° at base. Angle not adjustable. Once joined effective length reduces 35 mm to approx. 73 mm.

Inner: Aluminium Ø100 mm

Outer: Galv. steel Ø170 mm



High wind vertical cowl protection kit

Code: R3655

For windy areas such as Wellington, coastal properties, or elevated properties on hills. Designed to wrap around the vertical cowl (as pictured) to reduce wind entering the flue and causing disturbances. It is fitted to the cowl and can be retrofitted.

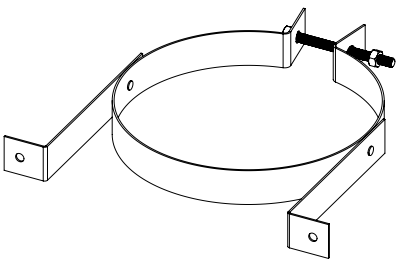
Construction - stainless steel

Wall strap DV

Code: R3647

Adjustable strap used in installations to add lateral support to the flue.

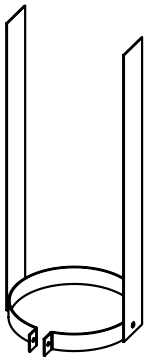
Provides a 50-200 mm clearance to combustibles.



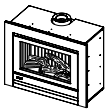
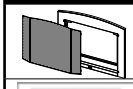
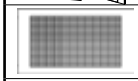
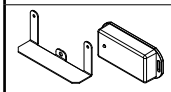
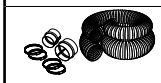
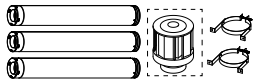
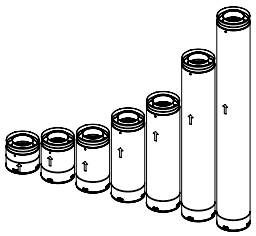
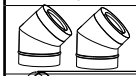
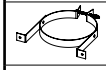
Elbow flue strap DV

Code: R3644

Flue supports for elbows and offsets. Strap length approximately 432 mm.

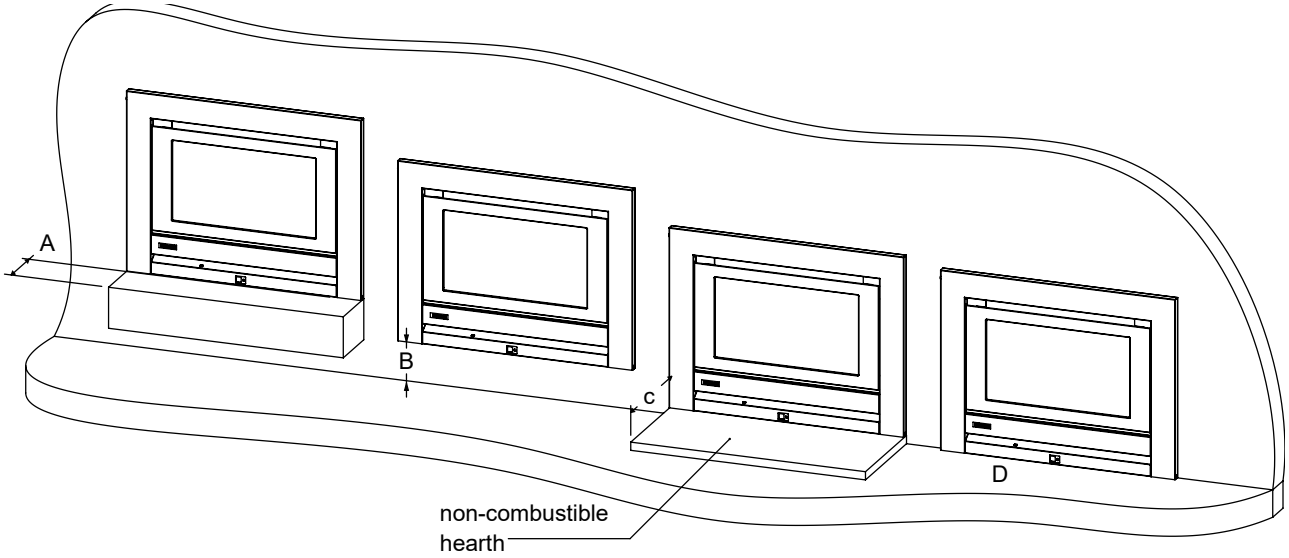


Novo Inbuilt
ordering guide

1. Select **installation** and **gas type**		Code
Masonry installation		
	Novo Inbuilt masonry **NG**	RDV2320**M**N
	Novo Inbuilt masonry **LPG**	RDV2320**M**L
Mock chimney (combustible opening)		
	Novo Inbuilt combustible **NG**	RDV2320**C**N
	Novo Inbuilt combustible **LPG**	RDV2320**C**L
Supplied with the following: flue adapter, zero clearance box, standard outer frame, IR remote, stainless steel gas pipe, brass adapter, aeration plates and screws, log set and granules.		
2. Select optional accessories		
	Novo Inbuilt classic bronze frame	R2380
	Novo Inbuilt mesh frame	R2370
	Novo Inbuilt masonry infill panel (not suitable for use with the classic bronze frame)	R2373
	Wi-Fi module control kit	R7000
3. Select flue components		
Masonry flue components		
	Masonry vertical flexi flue kit 5.5 m	R3656
	Masonry vertical flexi flue ext kit 2.5 m	R3657
Mock chimney flue components		
	Flue kit DV vertical 3.6 m (If you need to order the flue cowl separately the part is R3651)	R3665
	Flue pipe 150 mm Flue pipe 230 mm Flue pipe 300 mm Flue pipe 450 mm Flue pipe 600 mm Flue pipe 900 mm Flue pipe 1200 mm	R3630 R3631 R3632 R3633 R3634 R3635 R3636
	Flue pipe extension 75-175 mm Flue pipe extension 75-360 mm	R3638 R3639
	Coaxial 45° flue elbows (two bends in a kit)	R3642
	Elbow flue strap	R3644
	Wall flue strap	R3647
	High wind vertical cowl protection kit	R3655

Novo Inbuilt
flooring and hearth material selection

The temperature in front of the fire (200-350 mm x 400 mm wide) can reach up to 40 °C above ambient, which is why material selection is important, some guidelines are detailed below. For example we know that vinyl planks are only rated for ambient temperatures which is why the fire would not be suitable for installation directly on the floor.



Dim.	Non-combustible materials or materials rated to 60 °C or higher above ambient	Materials rated to a maximum of 50 °C above ambient	Unrated materials, rated up to 20 °C above ambient
A	No maximum.	150 mm maximum[1]	100 mm maximum[1]
B	No minimum	150 mm minimum	300 mm minimum
C	No minimum	400 mm minimum of non-combustible material	450 mm minimum of non-combustible material
D	No restriction	Not suitable for carpets or any heat sensitive materials	
[1] Refer floating hearth section below			

Just because a material is rated >60 °C doesn't mean it will not deteriorate when exposed to heat cycles. Always refer to the materials supplier for suitability. The temperatures given are assuming the fire is operating in a room temperature of no more than 25 °C. Operation in higher ambient temperatures may result in higher surface temperatures. Non-combustible materials should be made of heat resistant material.

Floating hearth - low rated and unrated flooring materials

For unrated flooring materials, if you use a non-combustible floating hearth, the dimensions of the hearth, minimum depth, and minimum height, can be tweaked using the following calculations:

- Min. hearth depth (A) = 450[2]-height of hearth (for 50 °C rated materials it will be 400)
- Min. hearth height = 450[2]-depth of hearth (for 50 °C rated materials it will be 400)

Example

If you wanted a 200 mm deep non-combustible hearth, the calculation for hearth height would be: 450 - hearth depth (A) (450-200 = 250). The non-combustible hearth height would need to be 250 mm minimum.

This would mean the floating hearth dimensions could be 200 mm deep and 250 mm high.

[2] Figure obtained from in-house temperature testing

Novo Freestander and Cube specification

Designed and made in New Zealand.

A direct vent (room sealed) freestanding gas fireplace with a glass front and convection fan, pushing warm air from the top of the appliance. Operated using a simple IR remote to control flame height and fan speed, or by the Rinnai Wi-Fi app (optional accessory) that allows full thermostatic control, as well as other features such as timers.

Input:	14-30 MJ/h	Output:	3.6-6.6 kW*
Efficiency:	77%	Heating area:	65-112 m²**
Gas type:	NG or ULPG		

* Will vary according to gas type and flue configuration
** Will vary depending on location in NZ

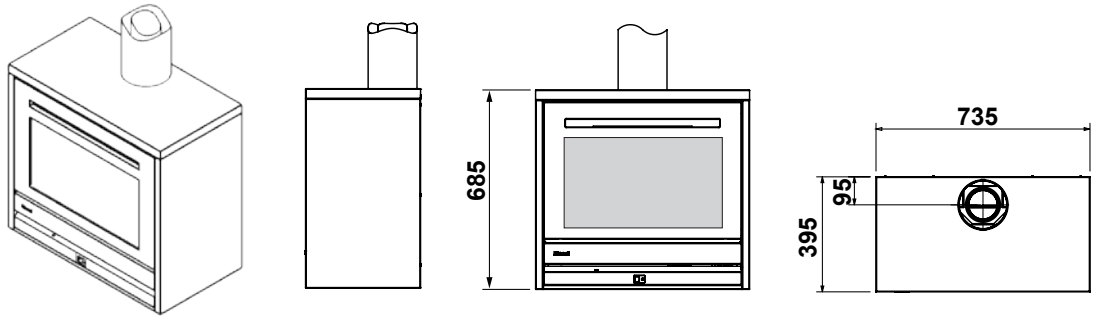
Suitability	Suitable for freestanding installations, in open plan areas and living rooms. As a room sealed appliance it can also be installed in larger bedrooms if this meets 6.10.6.1 requirements of AS/NZS 5601.1.
Installation considerations	Consider the room size. Smaller rooms will heat up quickly, and due to the heat of the appliance, the fire will reduce to a low flame setting once the set temperature has been reached.
Data plate position	Lower RHS of the base panel
Convection fan	120 V AC 50 Hz 2-speed centrifugal blower
Gas connection	Brass ½ “ BSPT male fitting. The gas supply terminates inside the unit—lower RHS of the appliance.
Ignition	230-240 V AC 50 Hz high voltage electronic spark generation.
Flueing	Direct vent coaxial[1] flue. Draws air for combustion from the outside and expels combusted gases to the outside. Appliance must be installed with a Rinnai flue system. Inner Ø100 mm, outer Ø170 mm
Noise level	37 - 45 dB(A)
Electrical	1.5 m power cord with a 3-pin plug is supplied. The standard electrical connection passes through the rear panel. The power cord can be drawn back inside the outer panel and brought into the fire from below if preferred. High - 50 W, standby - <3 W
Safety devices	Flame failure sensing system, pressure relief, overheat safety switch, air temperature sensor, thermal fuse, overcurrent fuse, and spark detection.
Weight	Novo Cube = 75 kg Novo Freestander cabinet base = 14 kg Novo Freestander plinth base = 10 kg

[1] Coaxial: One flue, the exhaust flue is nested inside the air intake flue—these are rigid flues

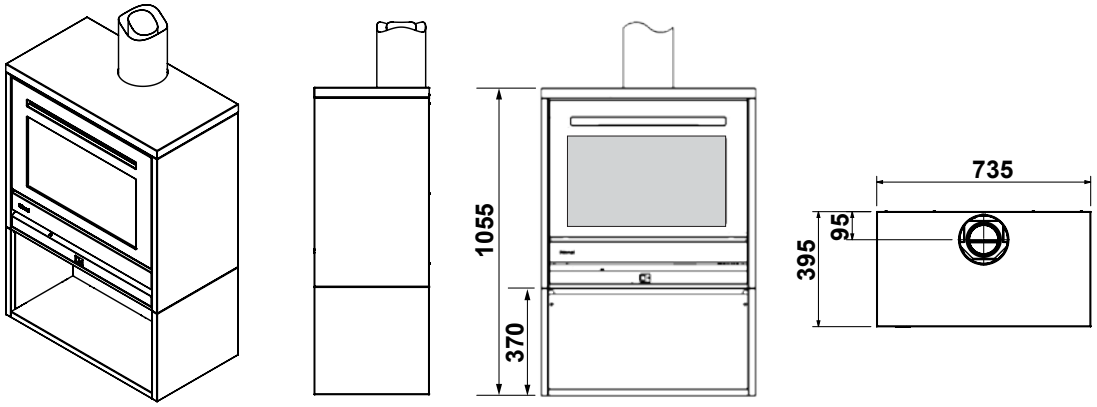
Coaxial

Novo Freestander and Cube
unit dimensions (mm)

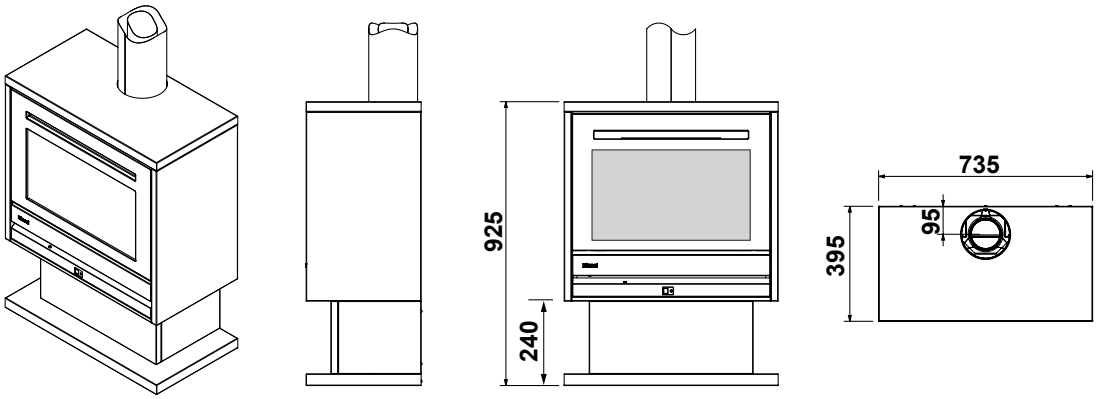
Novo Cube



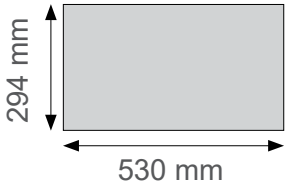
Novo Freestander - cabinet base



Novo Freestander - plinth base



Viewable glass dimensions

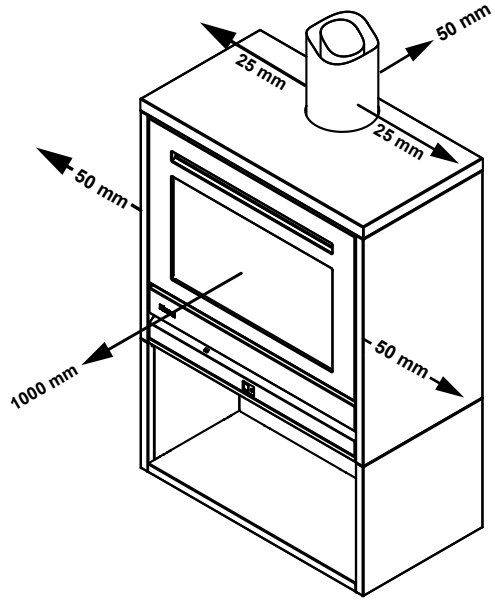


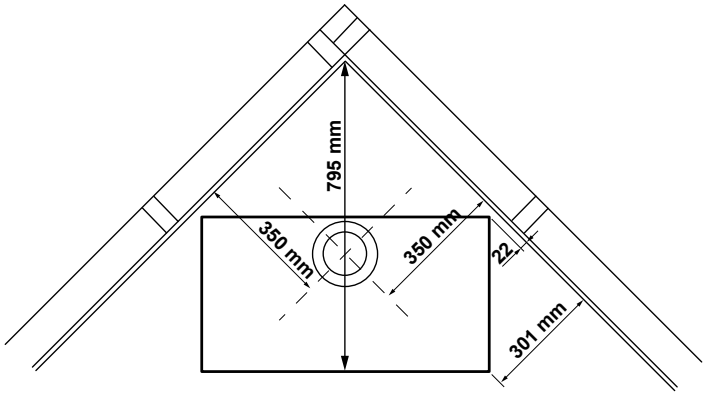
Novo Freestander and Cube
general clearances

The Novo freestanding models have an additional metal wrap which significantly reduces heat transfer. This means the unit can be installed into tight spaces, can be built-in, and can be positioned close to walls if the building materials are suitable. For further information on material selection refer p.76.

General clearances from combustibles
The clearances in this diagram are minimum clearances. The Novo must not be installed where curtains, furniture, or other combustible materials could come into contact with the fire while it is operating. The 1000 mm clearance is in front of the fire.

The general clearances shown below on the Novo Freestander (with cabinet base) apply to all the Novo freestanding models.





Floor protection
Heat radiating from this fire may over time affect the appearance of some materials used for flooring, such as carpet, vinyl, cork, or timber. We don't recommend installing the Novo Cube directly on the floor if sensitive or unrated materials are used unless there is some protection placed in front of the appliance, such as a mat.

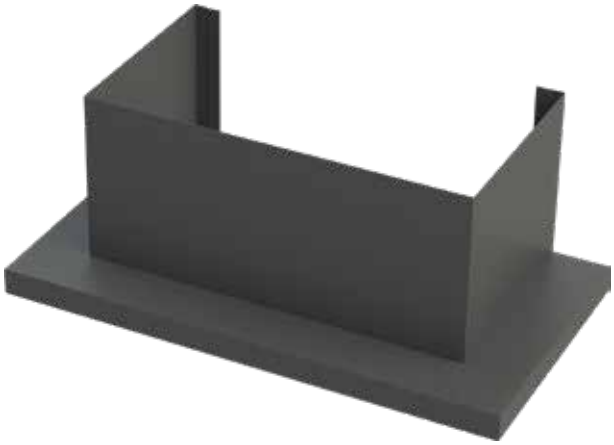
Novo Freestander and Cube
accessories

Novo Freestander - cabinet base
R2362GL

The cabinet comes as a flat pack. An additional flexi and connector is also provided as a longer gas connection is needed.

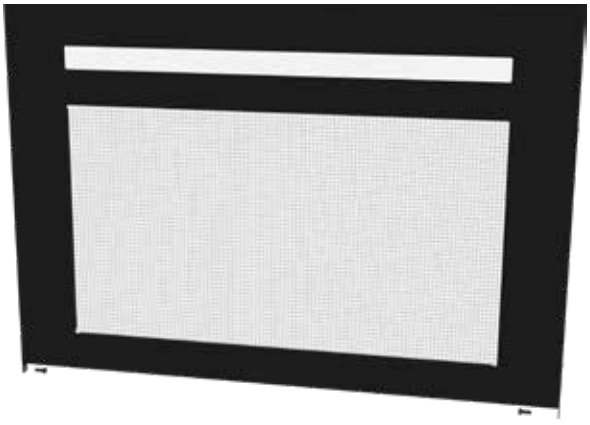
Novo Freestander - plinth base
R2363GL

The plinth comes as a flat pack. An additional flexi and connector is also provided as a longer gas connection is needed.



Novo freestanding mesh frame
R2371

Black integrated mesh guard, can be easily installed, no fixing required. Design to protect against touching the hot surface of the glass[1].



Wi-Fi module retrofit kit
R7000

The Rinnai R7000 Wi-Fi board retrofit kit enables the fire to be connected to the Rinnai Fire Wi-Fi App for full thermostatic control, as well as other features such as timers. Ideally fitted at the time of installation.

[1] The mesh will still get very hot. If you are wanting to stop young hands from getting near the unit, we would recommend a guard in front of the fire.

Novo Freestander and Cube
flueing options

Every gas fire requires a flue system that will draw effectively and clear flue products safely under all potential wind and climatic conditions. It is the responsibility of the installer to ensure the appliance is provided with an effective flue.

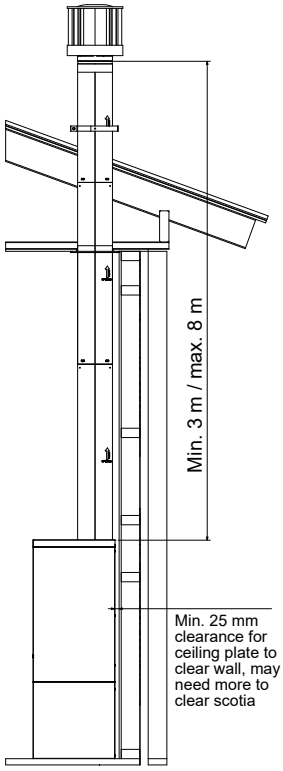
The Novo MUST BE installed with a Rinnai approved flue system, approved components are shown in this guide.

Minimum flue length
This is required to ensure adequate draw and to prevent spill-back of combustion products, which can cause the safety sensors to shut down the fire.

- Min. vertical length: 3 m
- Min. flue length before any bends or offsets: 900 mm (or one length of flue)

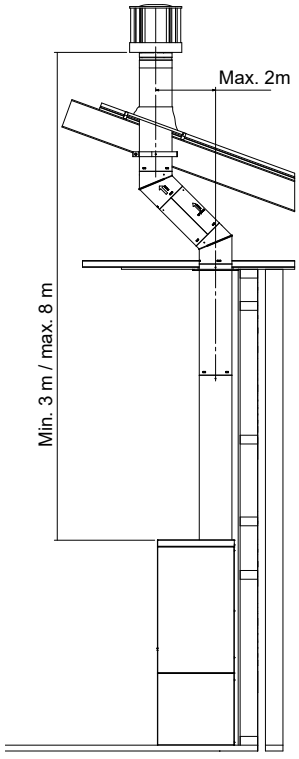
Maximum flue length
The maximum flue length is determined by what the product has been tested, verified, and certified to.

- Max. flue length: 8 m
- Max. number of bends: 2 x 45°, or 2 x 90°



Freestanding straight vertical
For this option we have a standard single storey vertical flue kit 3.6 m, refer next page. If flueing is longer individual flue components can be purchased.

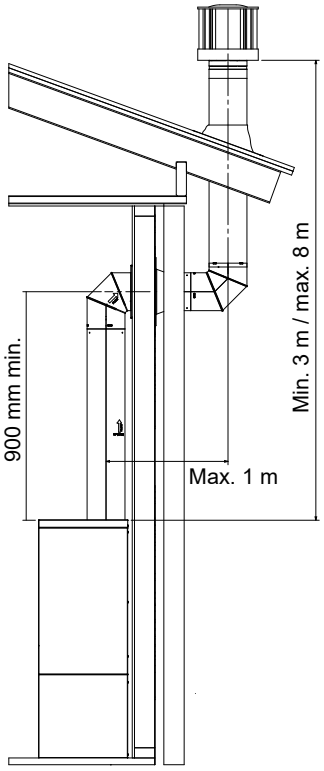
Visible flue sections are powder coated in galaxy black.



Freestanding vertical offset

This option uses 45° bends to offset obstructions in the roof space.

Individual flue components need to be purchased for this option.



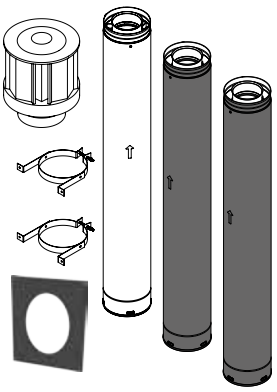
Freestanding vertical with a 90° offset wall penetration
For instances where there may be another room above or vertical obstructions. There is also an option to penetrate the wall with 45° bends.

Individual flue components need to be purchased for this option.

Novo Freestander and Cube
flue components

R3706: Novo freestanding flue kit DV black 3.6 m
Galaxy black powder coated freestanding flue kit. Contains:

- R3636: 1 x 1200 mm flue pipe unpainted
- R3636GL: 2 x 1200 mm flue pipe black
- R3651: Coaxial flue cowl
- R3609GL: Cover plate black 90°
- R3647: 2 x wall straps



Flue pipes cannot be cut to size. Once joined the nominal length reduces approximately 35 mm.

Inner: Aluminium (Ø100 mm) Outer: Galvanised steel (Ø170 mm)

DV coaxial flue pipes unpainted, and painted
Interlocking pipe used to construct vertical flueing. CANNOT be cut to size. Once joined nominal length reduces approximately 35 mm. Painted variants are powder coated black.

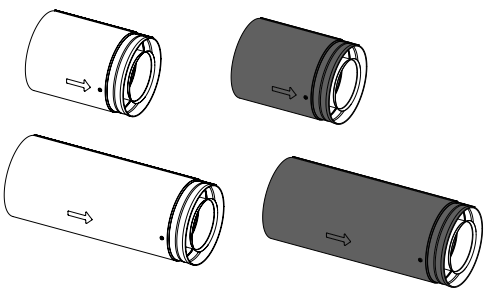
Inner: Aluminium (Ø100 mm) Outer: Galvanised steel (Ø170 mm)

Pipe	Installed length	Code Unpainted	Code Painted
150 mm	114 mm	R3630	R3630GL
230 mm	191 mm	R3631	R3631GL
300 mm	267 mm	R3632	R3632GL
450 mm	419 mm	R3633	R3633GL
600 mm	572 mm	R3634	R3634GL
900 mm	876 mm	R3635	R3635GL
1200 mm	1181 mm	R3636	R3636GL

DV flue pipe extensions unpainted, and painted
Used for extended straight lengths of flue. Available in two lengths, extending to 175 mm or 360 mm. Painted variants are powder coated black.

Inner: Aluminium (Ø100 mm) Outer: Galvanised steel (Ø170 mm)

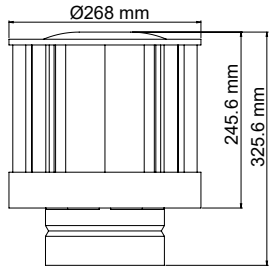
Pipe	Code Unpainted	Code Painted
75-175 mm	R3638	R3638GL
75-360 mm	R3639	R3639GL



Novo Freestander and Cube
flue components

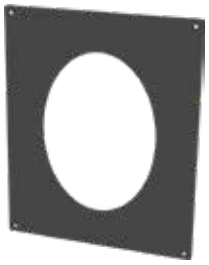
Coaxial vertical flue cowl
Code: R3651

Aluminium flue terminal required for all coaxial vertical flue installations—part of all vertical flue kits.



Flue DV plate 45°
Code: R3608GL

Galaxy black 45° plate to cover/tidy hole where flue pipe penetrates, used in offset installations



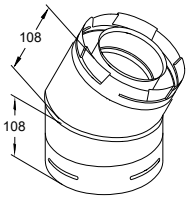
Flue DV plate 90°
Code: R3609GL

Galaxy black ceiling/wall plate to cover/tidy hole where flue pipe penetrates.

Coaxial 45° flue elbows (two bends in a kit)
R3642 (unpainted) R3642GL (powder coated black)

Offsets obstructions. Elbow swivels 360° at base. Angle not adjustable. Once joined effective length reduces 35 mm to approx. 73 mm.

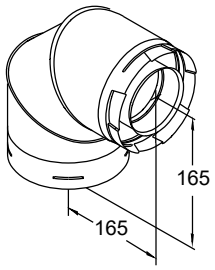
Inner: Aluminium Ø100 mm Outer: Galv. steel Ø170 mm



Coaxial 90° flue elbow
R3643 (unpainted) R3643GL (powder coated black)

Used to facilitate between vertical and horizontal flueing. Elbow swivels at base. Angle not adjustable. Once joined effective length reduces 35 mm to approx. 130 mm

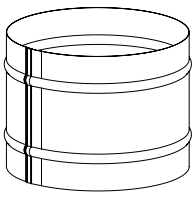
Inner: Aluminium Ø100 mm Outer: Galv. steel Ø170 mm



High wind vertical cowl protection kit
Code: R3655

For windy areas such as Wellington, coastal properties, and elevated properties on hills. Designed to wrap around the vertical cowl (as pictured) to reduce wind entering the flue and causing disturbances. it is fitted to the cowl, and can be retrofitted.

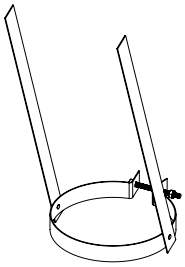
Construction - stainless steel



Elbow flue strap DV
Code: R3644

Flue supports for elbows and offsets.

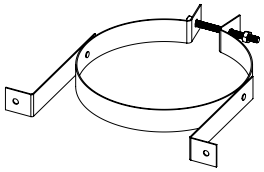
Strap length approximately 432 mm.



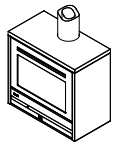
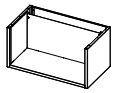
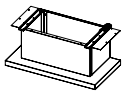
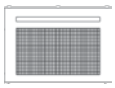
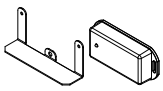
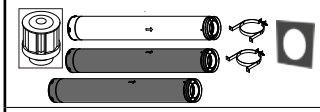
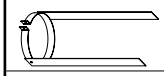
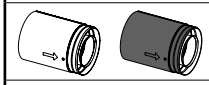
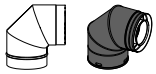
Wall strap DV
Code: R3647

Adjustable strap used in installations to add lateral support to the flue.

Provides a 50-200 mm clearance to combustibles.



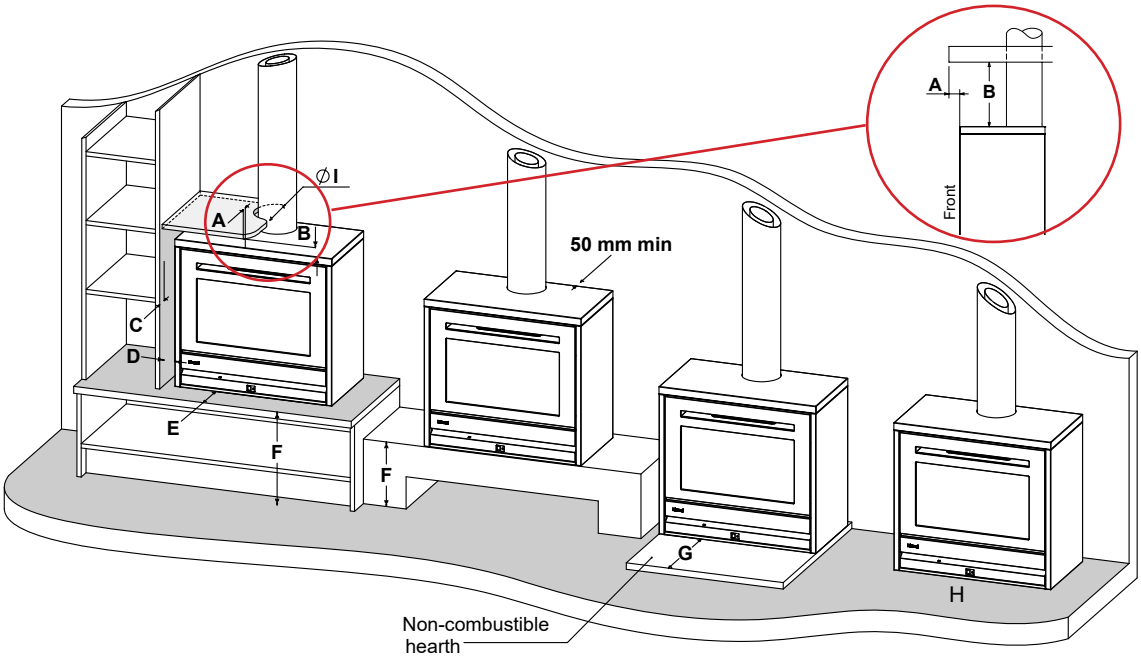
Novo Freestander and Cube
ordering guide

1. Select **gas type**			Code
	Novo Cube **NG**		RDV2320**F**N
	Novo Cube **LPG**		RDV2320**F**L
Includes engine, cube wrap, outer frame, IR remote, stainless steel gas pipe, brass adapter, aeration plates and screws, log set and granules.			
2. Select optional accessories			
	Novo Freestander Cabinet Base		R2362GL
	Novo Freestander Plinth Base		R2363GL
	Novo Freestander Mesh Frame		R2371
	Wi-Fi module control kit		R7000
3. Select flue components			
	Novo Freestanding flue kit DV black 3.6 m (If you need to order the flue cowl separately the part is R3651)		R3706
	Elbow flue strap		R3644
	Wall flue strap		R3647
	High wind vertical cowl protection kit		R3655
3. Select flue components unpainted, or painted		Unpainted	Painted
	Flue pipe 150 mm Flue pipe 230 mm Flue pipe 300 mm Flue pipe 450 mm Flue pipe 600 mm Flue pipe 900 mm Flue pipe 1200 mm	R3630 R3631 R3632 R3633 R3634 R3635 R3636	R3630GL R3631GL R3632GL R3633GL R3634GL R3635GL R3636GL
	Flue pipe extension 75-175 mm Flue pipe extension 75-360 mm	R3638 R3639	R3638GL R3639GL
	Coaxial 45° flue elbows (two bends in a kit)	R3642	R3642GL
	Coaxial 90° flue elbow	R3643	R3643GL
	Flue DV plate 45°		R3608GL
	Flue DV plate 90°		R3609GL

Novo Freestander and Cube
material selection

The temperature in front of the fire (approximately 200-350 mm x 400 mm wide) can reach up to 40 °C above ambient, which is why material selection is important. For example, vinyl planks are a popular option for flooring, however vinyl is only rated for ambient temperatures. In this example it would not be recommended that the fire is installed directly on the floor unless there was some form of floor protection in front of the fire.

Some material selection guidelines, depending on the material rating, are shown below.



Dim.	Description	Material temperature rated above ambient		
		Non-combustible materials or materials rated **60 °C** or higher	Materials rated to a maximum of **50 °C**	Unrated materials, rated to a maximum of **20 °C**
A	Overhang	No restriction as long as materials within 400 mm to the side (D) are of the same rating	• Not suitable if B is under 250 mm • No restrictions if B is greater than 1000 mm • If B is 300-1000, refer p.34	
B	Clearance above	50 mm min.	100 mm min.	200 mm min
C	Side overhang	No restrictions	No restrictions if D is greater than 400 mm	
D	Side clearance	50 mm min.	50 mm min.	100 mm min.
E	In front	No restrictions	150 mm max.	100 mm max.
F	Clearance to floor	No restrictions	150 mm min.	240 mm min.
G	Hearth depth	No restrictions	400 mm min. of non-combustible material	450 mm min. of non-combustible material
H	Directly on floor	No restrictions	Not suitable for heat sensitive materials	
I	Flue clearance	25 mm min.	50 mm min.	

The shaded cells denote measurements A, B, C, and D. These figures are dependent on each other and the type of installation. There is some wiggle room to these dimensions if they follow some specific calculations. These calculations are based on figures obtained during in-house temperature testing.

Just because a material is rated to higher than 60 °C does not mean it will not deteriorate when exposed to heat cycles. Always refer to the material supplier for suitability. The temperatures given are assuming the fire is operating in a room temperature of no more than 25 °C. Operation in higher ambient temperatures may result in higher surface temperatures. Non-combustible materials should be made of heat resistant material.

Ember Series
specification

Designed and made in New Zealand.

A direct vent (room sealed) inbuilt gas fireplace with glass front and convection fan, pushing warm air from the top of the appliance. Operated using a simple IR remote to control flame height and fan speed, or by the Rinnai Wi-Fi app (optional accessory) that allows full thermostatic control, as well as other features such as timers.

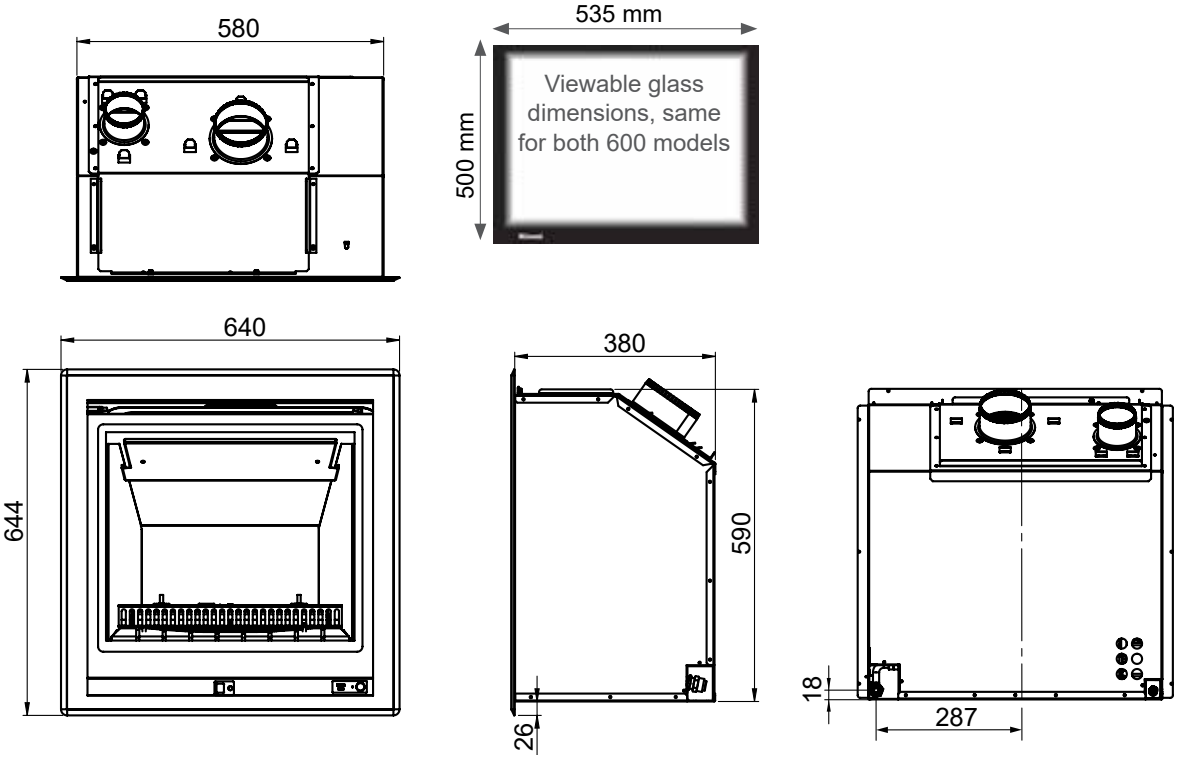
	600	**700**
Input	12-23 MJ/h	14-27 MJ/h
Output[1]	2.5-5.0 kW	3.0-6.0 kW
Efficiency	77% on high	77% on high
Heating area[2]	up to 80 m^2	up to 96 m^2
Gas type	NG or ULPG	NG or ULPG

[1] Will vary according to gas type and flue configuration
[2] Will vary according to location in NZ

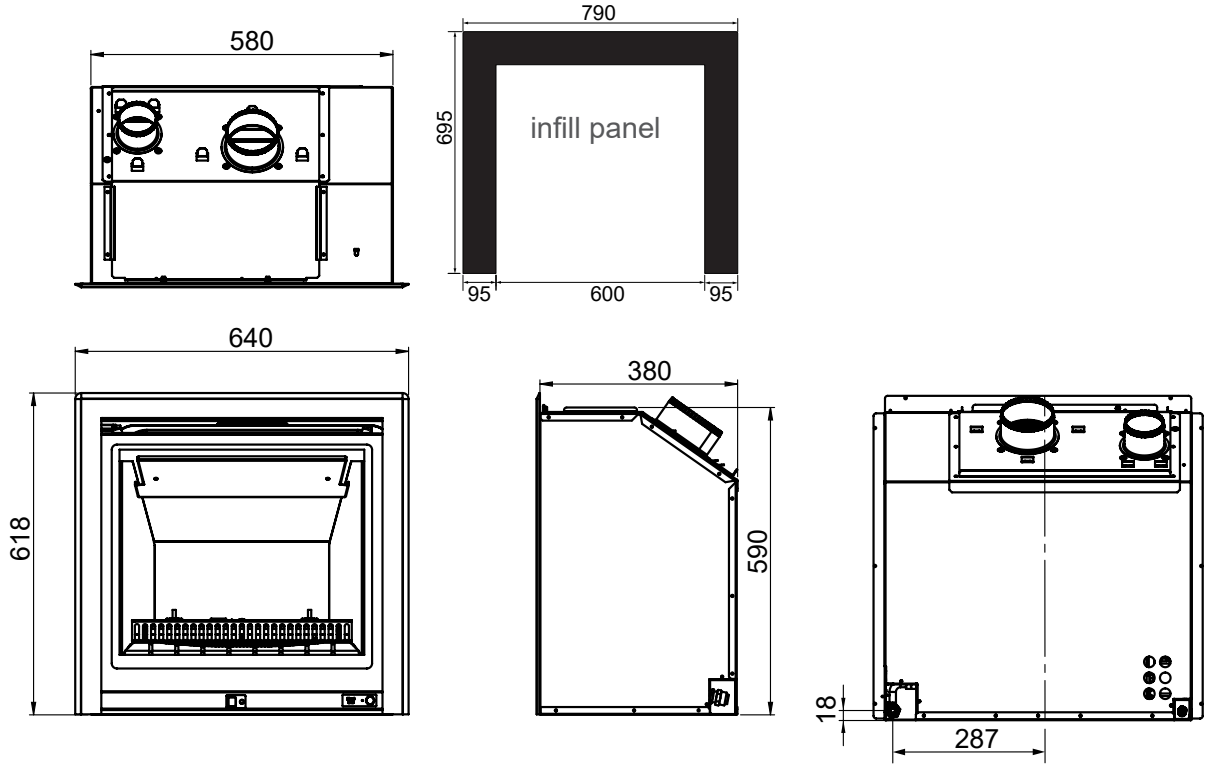
Suitability	Suitable for masonry installations and installations into a mock chimney in open plan areas and living rooms. As a room sealed appliance it can also be installed in larger bedrooms as long as this meets the 6.10.6.1 requirements of AS/NZS 5601.1.
Date plate	Lower right hand side of the base panel in front of the gas control
Convection fan	120 V AC 50 Hz 2-speed centrifugal blower
Lighting	2 x halogen lamps 240 V, 25 W
Gas connection	Brass ½ " BSPT male fitting. Gas supply terminates inside the heater, lower right hand side of appliance.
Noise level	37 - 45 dB(A)
Flueing - masonry	Appliance must be installed with a Rinnai Ember DV flue system. Colinear flexi flue, air intake Ø75 mm, exhaust Ø100 mm For masonry installations, the chimney cavity needs to be at least 200 x 200 mm in order to fit the colinear flexi flue.
Flueing - mock chimney	Appliance must be installed with a Rinnai Ember DV flue system. Colinear (air intake Ø 75 mm, exhaust Ø 100 mm) to coaxial direct vent flueing (inner Ø 100 mm, outer Ø 170 mm).
Electrical	230-240 V AC 50 Hz. The Ember has a 1.5 m power cord with a 3-pin plug supplied. The power cord passes through a slot in the back right hand corner of the appliance. • High - 110 W • Standby - <1W
Safety devices	Flame failure sensing system, pressure relief, overheat safety switch, air temperature sensor, thermal fuse, overcurrent fuse, and spark detector.
Temperature control	Operated by using the basic infra-red remote*, or for more features, such as timers and thermostatic control, using Rinnai's Wi-Fi fireplace controller app. * Temperature sensor is located in the bottom of the remote
Weights	• Ember 600 - 51 kg • Ember 700 - 55 kg

Ember 600
dimensions (mm)

Ember 600 with 4-sided frame (mock chimney installations)

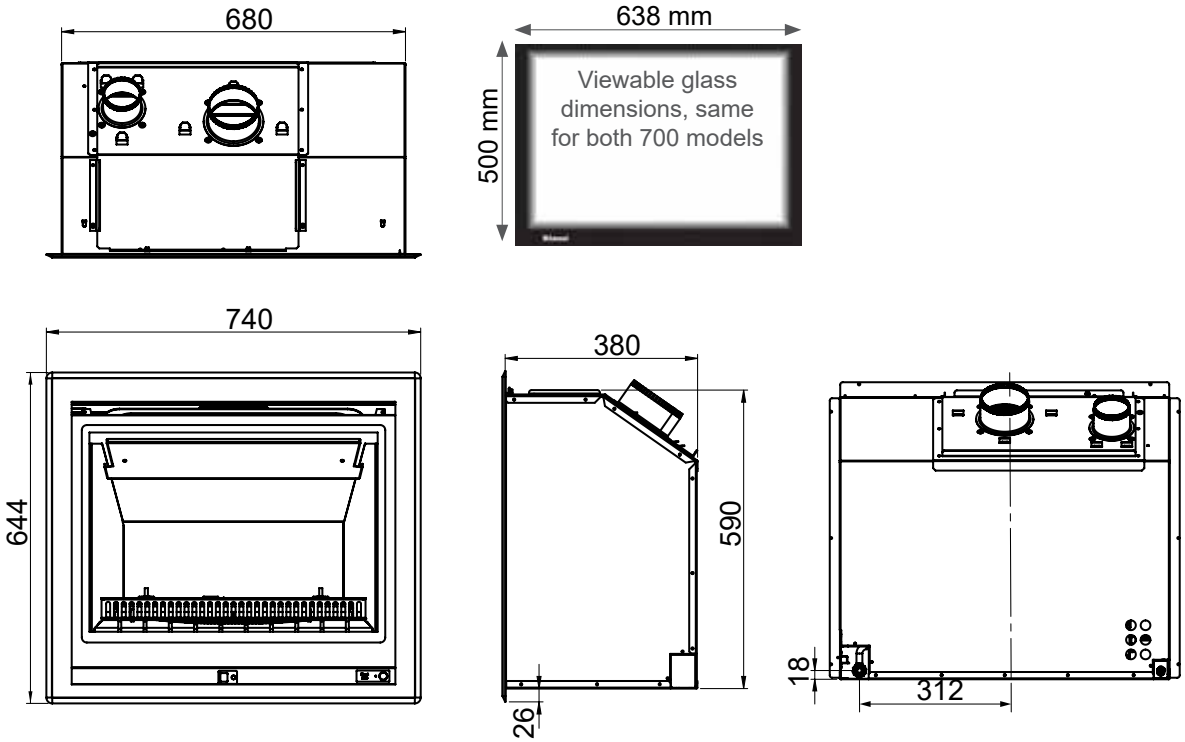


Ember 600 with 3-sided frame (masonry installations or mock chimney installations with a hearth)

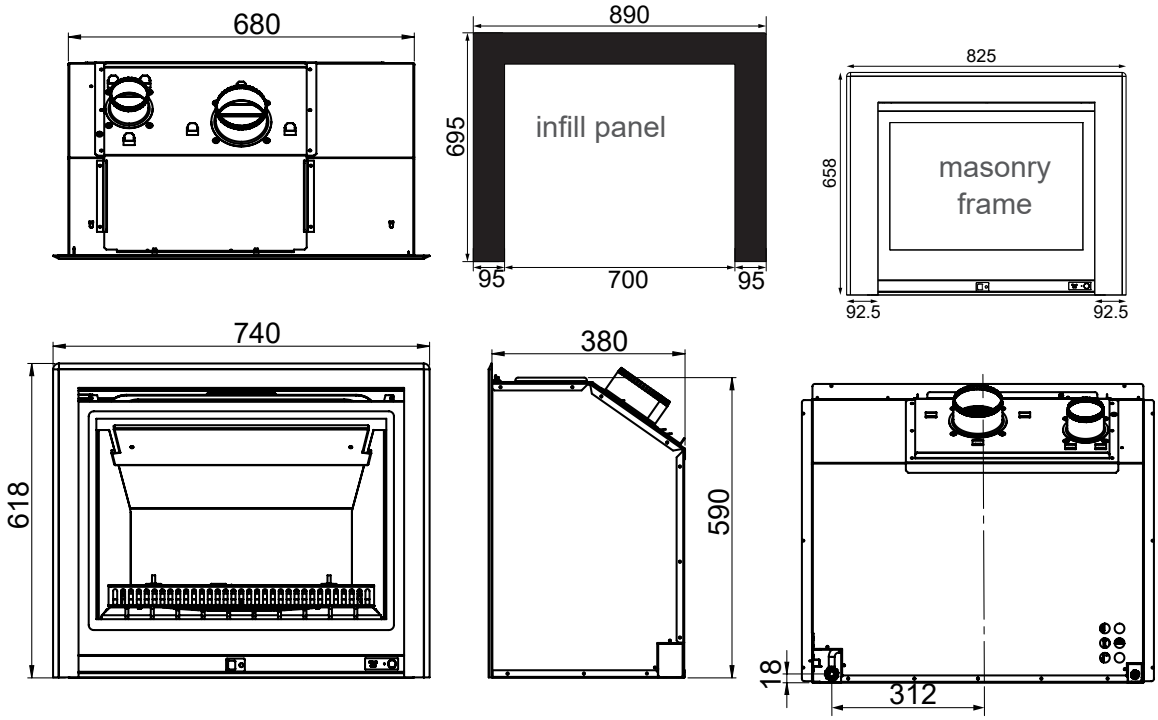


Ember 700
dimensions (mm)

Ember 700 with 4-sided frame (mock chimney installations)



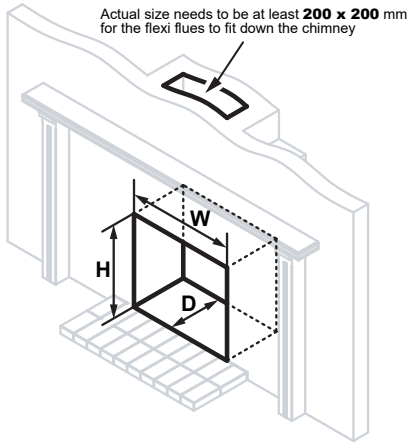
Ember 700 with 3-sided frame (masonry installations or mock chimney installations with a hearth)



Ember Series
enclosure dimensions (mm)

The Ember must be positioned within the enclosure on a flat level surface that allows free movement of the appliance. The enclosure must be capable of supporting 1.5 times the weight of the Ember.

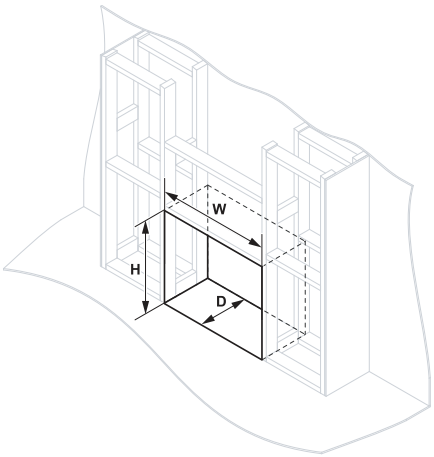
Masonry



	600	700
W-width	600 mm	700 mm
Infill panel*	600-750 mm	700-850 mm
Masonry frame*	N/A	700-785 mm
H-height	600 mm	600 mm
Infill panel*	600-675 mm	600-675 mm
Masonry frame*	N/A	600-638 mm
D-depth	400 mm min.	400 mm min.

* Enclosure dimensions can be larger if using an infill panel or a masonry frame.

Mock chimney



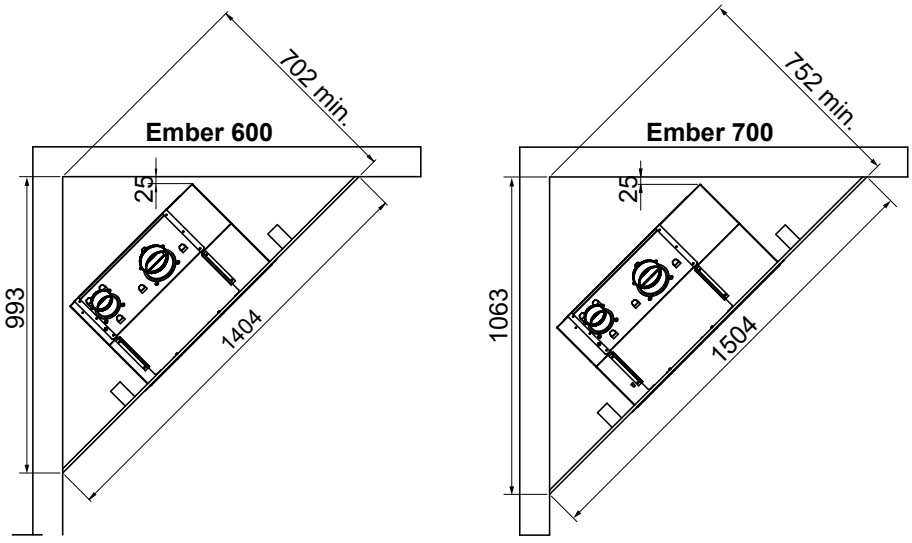
	600	700
W-width	700 mm	800 mm
H-height	700 mm	700 mm
D-depth	400 mm min.	400 mm min.

Framing dimensions above are before the zero clearance frame is fitted.

For mock chimney installations the Ember MUST BE installed with the Ember Zero Clearance frame, which gives the required clearances to combustibles.

Please note
If installing the Rinnai Ember into a purpose built chimney breast or chase, which is not open to the roof space of the building, you will need to add cavity vents. Refer to the installation guide for more information.

Corner installations

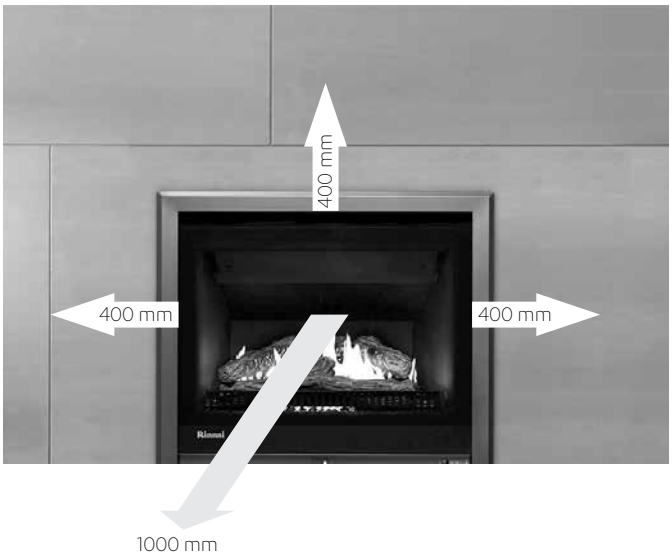


Ember Series
clearances from combustibles

The clearances listed below, measured from the edge of the glass, are minimum clearances unless otherwise stated.

While the heater is operating

The appliance must not be installed where curtains or other combustible materials could come into contact with the heater. The 400 mm side clearance includes side walls. The 1000 mm clearance is in front of the fire.

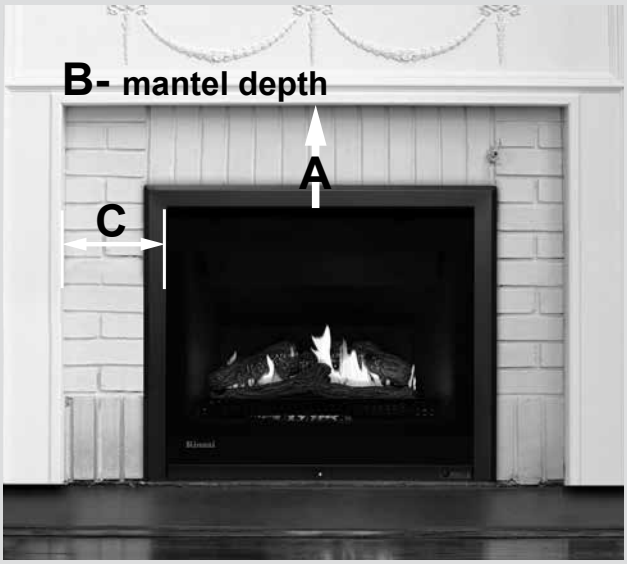


Floor protection

Heat from this fire may over time affect the appearance of some materials used for flooring, such as, carpet, vinyl, cork or timber. To avoid this occurring, it is recommended that a mat be placed in front of the appliance.

Mantels and surrounds

Combustible mantels and surrounds require clearance from the unit to minimise the risk of fire. Mantels and surrounds, made of combustible materials such as wood, are allowed providing they are outside the minimum clearances shown.



A	Mantel needs to be a min. of 400 mm away from the edge of the glass.
B	Max. mantel depth at 400 mm (A) is 250 mm max.
C	Surround needs to be a minimum of 400 mm away from the edge of the glass.

For every 50 mm of added mantel depth there must be an additional 100 mm of clearance from the edge of the glass. For example:

MANTEL DEPTH	A: CLEARANCE REQUIRED
300 mm	500 mm
350 mm	600 mm
400 mm	700 mm

Hearths

A hearth is not necessary but can be used for decorative purposes or protection of sensitive flooring if required. A hearth must not obscure the front of the fire or obstruct the fire in any way (including the frame around the fire).

Wall surface above the fire

The temperature of the wall surface directly above the fire may get warm and distort paint finishes, or distort vinyl wall coverings. For durability of surfaces, please contact the manufacturer for their specification.

Ember Series
burn media, frames, and accessories

Log set
Ember 600 R2422
Ember 700 R2420

Ceramic log set, contains five logs.

Stone set
Ember 600 R2423 (15 stones)
Ember 700 R2421 (21 stones)

Ceramic stone set.

Burn media
The Ember 600 and 700 burn media sets cannot be interchanged. The Ember 700 log set is thicker and longer, and the stone set has six more stones. Ensure the correct set is ordered.

Infill panel / masonry frame
Difference is aesthetics. Infill panel has a thinner profile and sits behind the 3-sided frame. The masonry panel looks wider and is used INSTEAD of the 3-sided frame.

3-sided black frame
Ember 600 R2410
Ember 700 R2400

Black power coated frame for a **masonry** chimney, or a **mock** chimney with a hearth.

3-sided titanium frame
Ember 600 R2412
Ember 700 R2402

Titanium frame for a **masonry** chimney, or a **mock** chimney with a hearth.

4-sided black frame
Ember 600 R2413
Ember 700 R2403

Black powder coated frame for a **mock** chimney.

4-sided titanium frame
Ember 600 R2415
Ember 700 R2405

Titanium frame for a **mock** chimney.

Masonry black infill panel
Ember 600 R2453
Ember 700 R2452

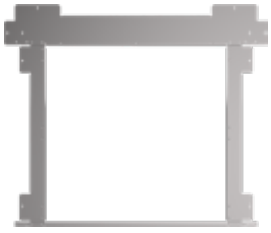
Black powder coated panel for masonry installations where the cavity is larger than the unit. The panel will hide the gap behind the fire and 3-sided frame.

Masonry frame (700 only)
Ember 700 R2406

Black powder coated frame for **700 masonry installations**. Designed to cover a larger cavity opening. Used INSTEAD of the 3-sided frame.

Ember zero clearance frame
Both models R2450

Mandatory requirement for mock chimney installations, to ensure clearances to combustibles.



High wind vertical cowl kit
Code R3655

Designed to wrap around the existing vertical cowl to reduce wind entering the flue and causing flame disturbances.

Gas fireplace Wi-Fi module
Code R7000

The module enables the Ember to be connected to the Rinnai Wi-Fi app for full thermostatic control and functionality.

Ember Series
flueing options

Installations into a masonry cavity

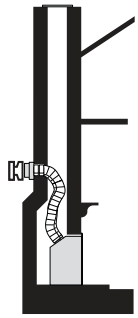
Masonry vertical termination
For installations into a masonry cavity. Check the chimney size before doing anything. It needs to be at least 200 x 200 mm for the flexi flues to fit.

- Minimum flue length is 3 m
- Maximum flue length is 8 m

Flue kit(s)
Masonry chimney flexi vertical flue kit 5.5 m (R3656).

If flueing needs to extend more than 5.5 m, an extension kit is available:

- Masonry chimney flexi flue extension kit 2.5 m (R3657)

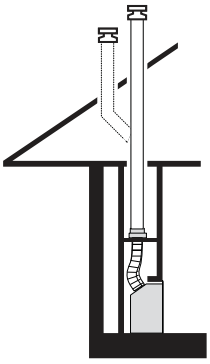


Masonry horizontal termination
For installations into a masonry cavity where the chimney may have been capped. Check the chimney size before doing anything. It needs to be at least 200 x 200 mm for the flexi flues to fit.

- Minimum flue length is 900 mm
- Maximum flue length is 1200 mm=

Flue kit components
- Ember adapter (R3653)
- Masonry horiz. flue box (R2449)
- Horiz. wall terminal (R3650)

Installations into a mock chimney (combustible opening)



Mock chimney vertical terminations
For installations into a combustible opening and using the Ember zero clearance frame. Flue runs in-wall and terminates vertically.

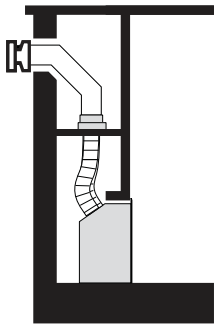
- Direct vertical, max. flue length 8 m
- Vertical with offsets, max flue length 8 m
- Max. number of 45 degree bends - two

If doing a straight short vertical flue (no bends) for a single story, flue kit R3665 3.6 m can be used.

Direct vertical flue components
- Ember adapter (R3653)
- Mock chimney vertical flue kit (R3665)

Vertical with offsets
- Ember adapter (R3653)
- Flue pipes 150-1200 mm*
- Flue extension (if needed)*
- Flue elbow 45° (R3642)
- Roof cowl (R3651)

* Refer p.86 for part numbers



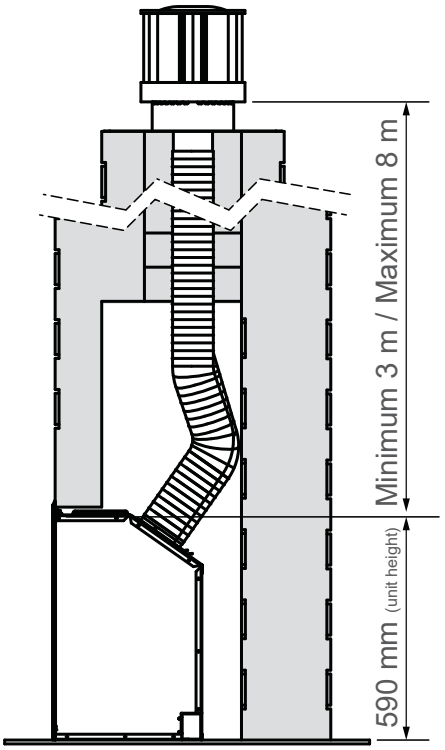
Mock chimney horizontal terminations
For installations into a combustible opening and using the Ember zero clearance frame. Flue runs vertically in-wall and terminates horizontally.

- Minimum flue length is 900 mm
- Maximum flue length is 2 m

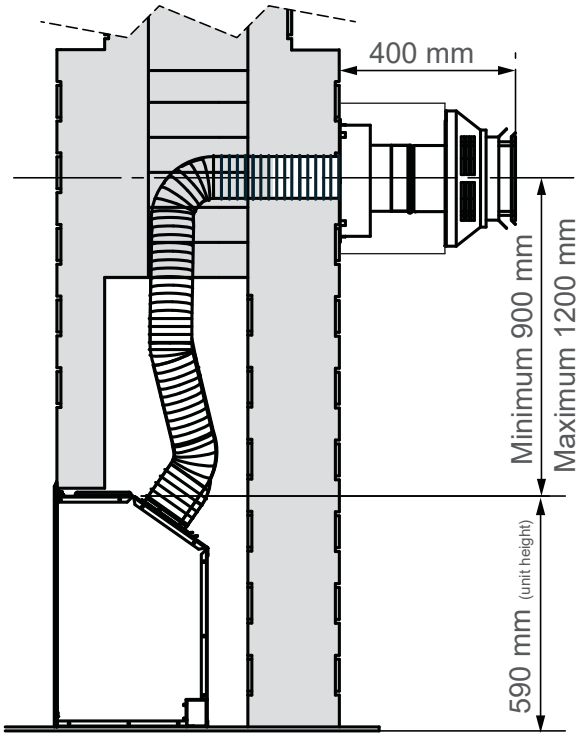
Direct horizontal flue kit
- Ember adapter (R3653)
- Mock chimney horizontal flue kit (R3654)

If going higher then a flue pipe (or two), or flue extension may be needed.

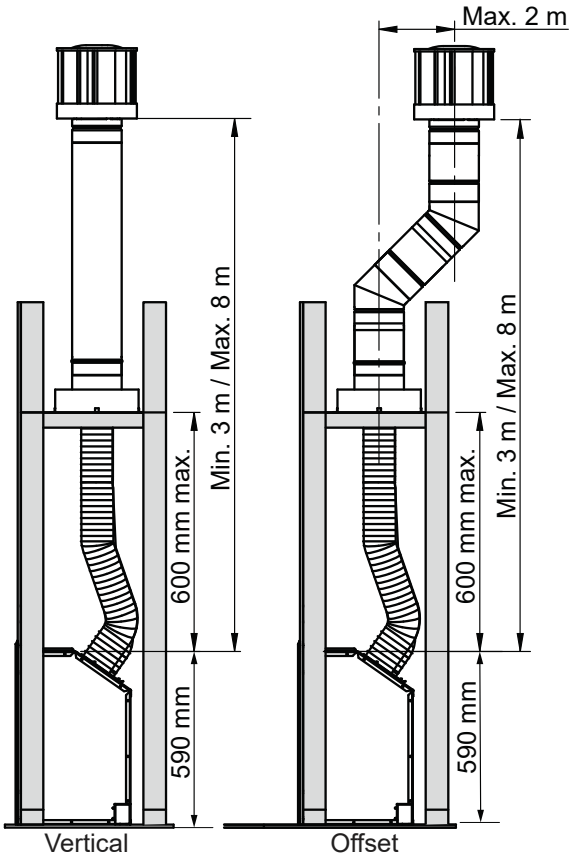
Masonry vertical termination
(for a non-combustible opening only)



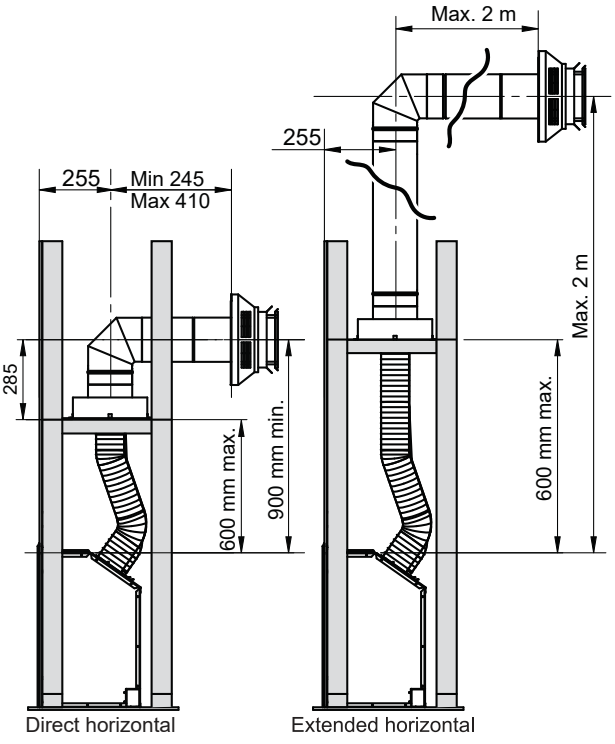
Masonry horizontal termination
(for a non-combustible opening only)



Mock chimney vertical terminations



Mock chimney horiz. terminations

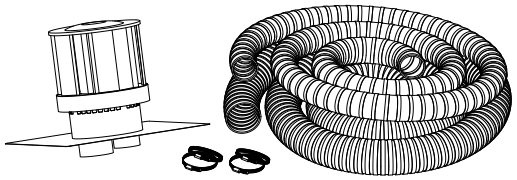


Ember Series
flue kits and components

Masonry vertical flexi flue kit 5.5 m DV R3656

For installations in a masonry fireplace. Extends 5.5 m. If longer flueing is required then the flexi flue extension kit needs to be ordered. Kit includes:

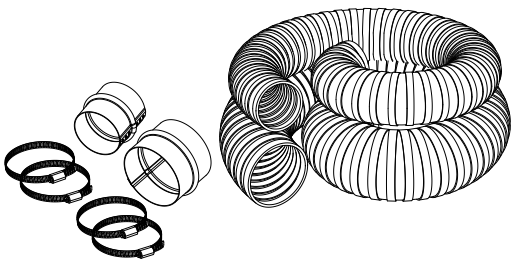
- aluminium colinear roof cowl DV
- chimney plate 455 x 455 mm
- intake flexi Ø75 (LHS)
- exhaust flexi Ø100 (RHS)
- stainless steel flue clamps x 4



Masonry vertical flexi flue ext. kit 2.5 m DV R3657

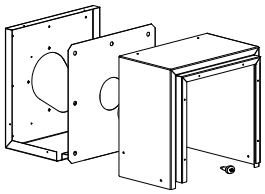
When flueing needs to extend beyond 5.5 m. Kit includes:

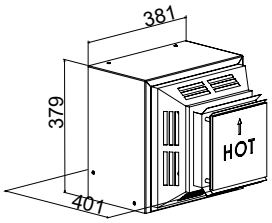
- intake flexi Ø75 (LHS)
- exhaust flexi Ø100 (RHS)
- joiners x 2
- stainless steel flue clamps x 4



Masonry horizontal flue box R2249

For installations into a masonry cavity where the chimney may have been capped. Attaches to the horizontal wall terminal (R3650).





Mock chimney vertical flue kit 3.6 m R3665

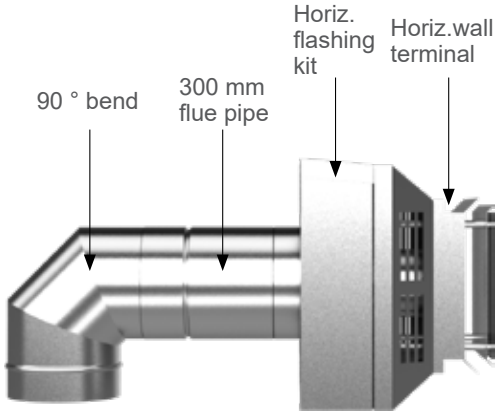
Coaxial vertical flue kit that attaches to the Ember adapter (remember to order this component as well).

Kit includes:
- High wind roof cowl
- Flue pipes 1200 mm x 3
- Wall straps x 2

If longer flueing is required, order additional flue pipes.

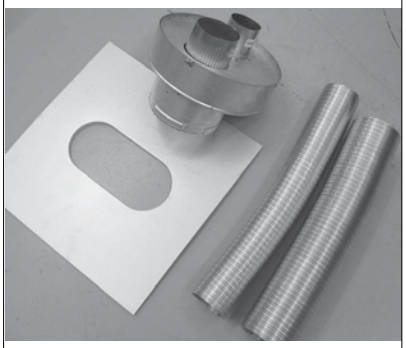
Mock chimney horizontal flue kit R3654

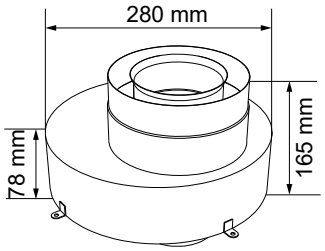
Coaxial horizontal flue kit that attaches to the Ember Adapter. If longer flueing is required, order additional flue pipes.



Ember flue adapter (R3653)
Colinear to coaxial adapter.

Contains; adapter, locating plate (455 x 455 mm), Ø75 mm and Ø100 mm flexi flues, and four flue clamps. Stretches out to 1.2 m.





Flue pipes

150 mm:	R3630
230 mm:	R3631
300 mm:	R3632
450 mm:	R3633
600 mm:	R3634
900 mm:	R3635
1200 mm:	R3636

Pipe used to construct horizontal and vertical flueing. Cannot be cut to size. Once joined nominal length reduces approx. 35 mm.

Inner - aluminium Ø 100 mm
Outer - galv. steel Ø 170 mm

Roof cowl (R3651)
Aluminium flue terminal required for all vertical flue installations—part of all vertical flue kits.

High wind vertical cowl protection kit (R3655)
For windy areas such as Wellington,coastal properties, and elevated properties on hills. Designed to wrap around the vertical cowl to reduce wind entering the flue and causing flame disturbances. It is fitted to the cowl and can be retrofitted.

Construction = stainless steel

Flue elbow 90° (R3643)
Used to facilitate between vertical and horizontal flueing. Elbow swivels 360 ° at base.

Once joined effective length reduces 35 mm to approx. 130 mm.

Inner - aluminium Ø 100 mm
Outer - galv. steel Ø 170 mm

Flue extension

75-175 mm:	R3638
75-360 mm:	R3639

Used for extended straight lengths of flue. Available in two lengths—extending to 175 mm or 360 mm.

Inner - aluminium Ø 100 mm
Outer - galv. steel Ø 170 mm

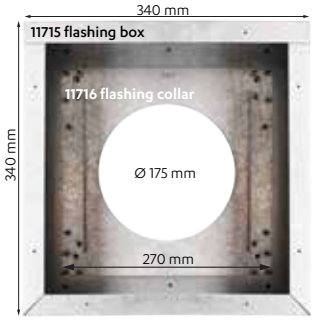
Wall strap (R3647)
Adjustable strap used to add lateral support to the flue. Provides a 50-200 mm clearance to combustible walls.

Horizontal wall terminal (R3650)
Aluminium flue terminal required for all horizontal terminations.

Depth with horizontal flashing kit installed—252 mm.

Horizontal flashing kit (R3646)
Flashing components used to join the internal flue to the outside flue. Refer horizontal wall terminal for installed dimensions.

Box depth is 100 mm.



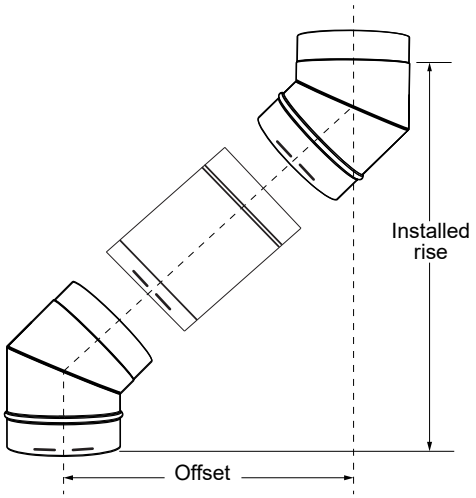
Elbow flue strap (R3644)
Flue support for elbows and offsets.

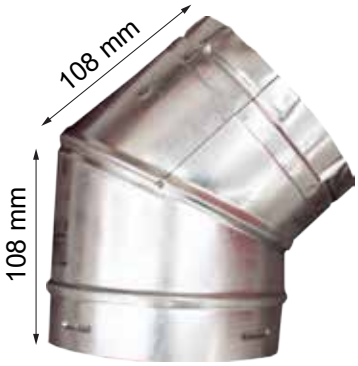
Flue elbow 45° (R3642)
Kit contains two 45° bends.

Offsets obstructions. Elbow swivels 360 ° at base. Angle not adjustable.

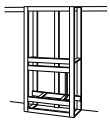
Once joined effective length reduces 35 mm to approx. 73 mm.

Inner: Aluminium
Outer: Galvanised steel





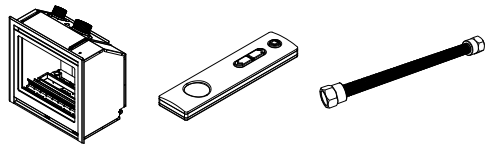
Flue pipe (length and code)		Offset	Rise
None (bend to bend)	N/A	124 mm	340 mm
150 mm	R3630	203 mm	419 mm
230 mm	R3631	257 mm	473 mm
300 mm	R3632	311 mm	527 mm
450 mm	R3633	417 mm	633 mm
600 mm	R3634	524 mm	740 mm
900 mm	R3635	737 mm	953 mm
1200 mm	R3636	949 mm	1165 mm



Ember Series ordering guide
mock chimney installations

1. Select **gas type** (engine)

The Ember engine comes with; remote control (batteries included), operation guide, installation guide, granule packs, rockwool, crushed glass, vermiculite, and flexible gas connection.



Ember 600 engine **NG**	RDV600N
Ember 600 engine **LPG**	RDV600L
Ember 700 engine **NG**	RDV700N
Ember 700 engine **LPG**	RDV700L

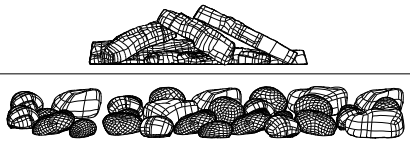
2. Select **frame** option

The frame option will depend on the installation. If you have a hearth, then order the 3-sided frame. If the Ember is being installed elevated from the floor, select the 4-sided frame.

600 black 3-sided frame	R2410
700 black 3-sided frame	R2400
600 titanium 3-sided frame	R2412
700 titanium 3-sided frame	R2402
600 black 4-sided frame	R2413
700 black 4-sided frame	R2403
600 titanium 4-sided frame	R2415
700 titanium 4-sided frame	R2405

3. Select **burn media** option

The media sets cannot be interchanged—ensure the correct set is ordered. The Ember 700 log set is thicker and longer, and the stone set has six more stones.



600 log set	R2422
700 log set	R2420
600 stone set	R2423
700 stone set	R2421

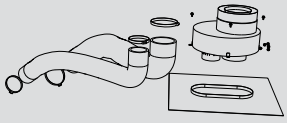
4. Order the **zero clearance frame** (MUST HAVE)

Universal frame for both models. It is required to ensure clearances to combustibles.

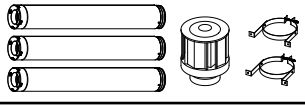
Ember zero clearance frame	R2450

5. Select the **flue components**

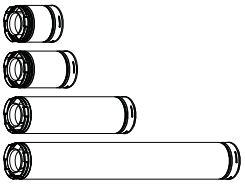
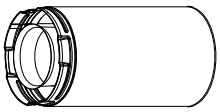
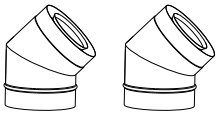
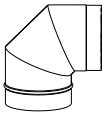
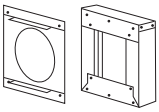
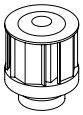
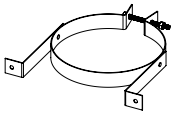
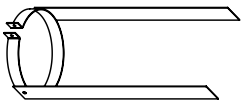
The starting component for a vertical or horizontal configuration starts with an Ember adapter—MUST be ordered. If flueing needs to be longer, order additional flue lengths, or flue extensions as required.

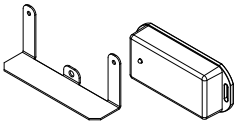


Ember adapter (order this first then add flue kits and / or flue components)	R3653



Flue kit vertical 3.6 m	R3665

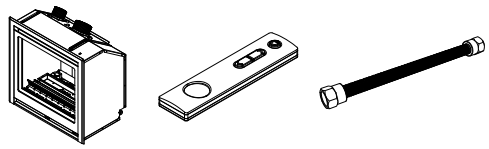
5. Select the **flue components** continued		
	Flue pipe 150 mm Flue pipe 230 mm Flue pipe 300 mm Flue pipe 450 mm Flue pipe 600 mm Flue pipe 900 mm Flue pipe 1200 mm	R3630 R3631 R3632 R3633 R3634 R3635 R3636
	Flue extension 75-175 mm Flue extension 75-360 mm	R3638 R3639
	Flue elbow 45° (two in a kit)	R3642
	Flue elbow 90°	R3643
	Horizontal flashing kit	R3646
	Horizontal wall terminal	R3650
	Roof cowl	R3651
	Wall flue strap	R3647
	Elbow flue strap	R3644

6. Order **optional** accessories		
	Gas Fireplace Wi-Fi module	R7000
	High wind cowl vertical protection kit	R3655

Ember Series ordering guide
masonry chimney installations

1. Select **gas type** (engine)

The Ember engine comes with; remote control (batteries included), operation guide, installation guide, granule packs, rockwool, crushed glass, vermiculite, and flexible gas connection.



Ember 600 engine **NG**	RDV600N
Ember 600 engine **LPG**	RDV600L
Ember 700 engine **NG**	RDV700N
Ember 700 engine **LPG**	RDV700L

2. Select **frame** option

If the cavity is larger than the 3-sided frame, the infill panel can be ordered **in addition** to the frame to cover the gap behind the fire and frame. Another option, for the Ember 700 only, is a masonry frame which can be ordered **instead** of the 3-sided frame. The masonry frame has a wider profile than the 3-sided frame.

600 black 3-sided frame	R2410
700 black 3-sided frame	R2400
600 titanium 3-sided frame	R2412
700 titanium 3-sided frame	R2402

600 infill panel 700 infill panel 700 masonry frame	R2453 R2452 R2406

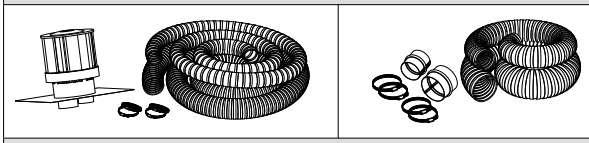
3. Select **burn media** option

The media sets cannot be interchanged—ensure the correct set is ordered. The Ember 700 log set is thicker and longer, and the stone set has six more stones.

600 log set / 700 log set	R2422 / R2420
600 stone set / 700 stone set	R2423 / R2421

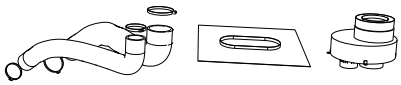
4. Select the **flue components**

Masonry **vertical** termination flue kit

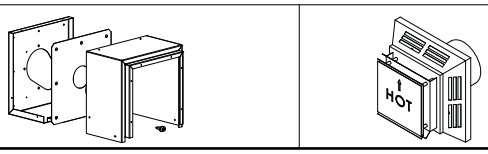


Masonry vert. flexi flue kit 5.5 m DV	R3656
Masonry vert. flexi flue ext. kit 2.5 m DV	R3657

Masonry **horizontal** flue components

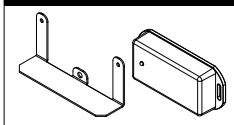


Ember adapter	R3653

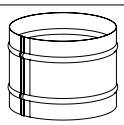


Masonry horizontal flue box	R2449
Horizontal wall terminal	R3650

5. Order **optional** accessories



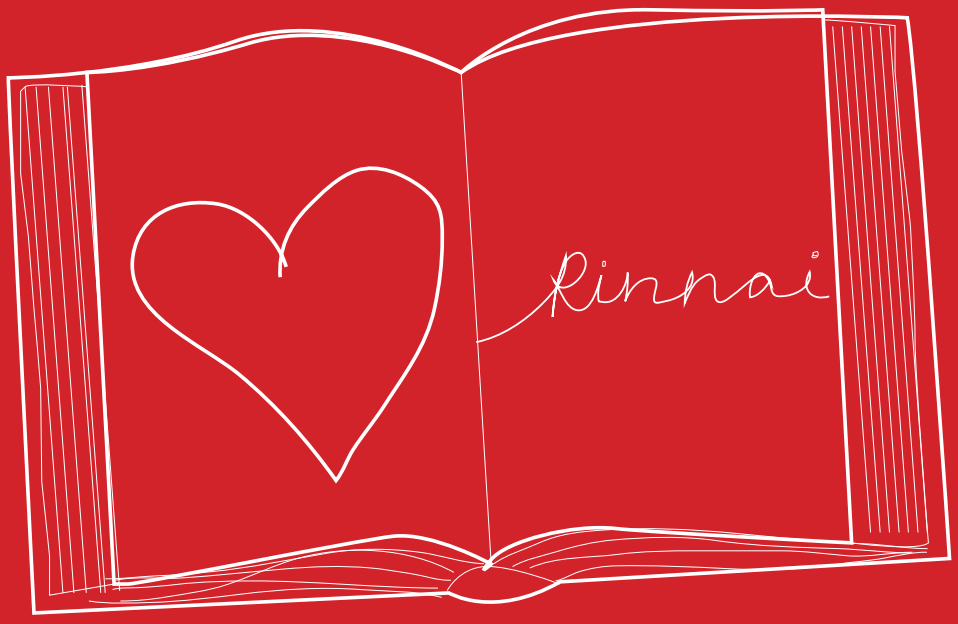
Gas Fireplace Wi-Fi module	R7000



High wind cowl vertical protection kit	R3655

Rinnai gas fireplaces

Appendices

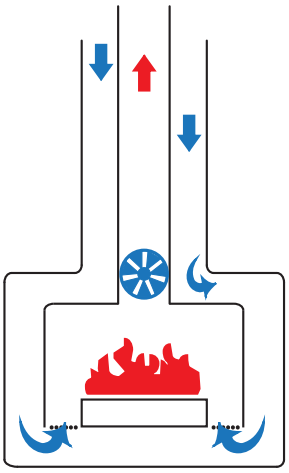


Appendix 1
gas fireplace flueing

The type of flue, power flue or direct vent, will determine where a gas fire can be installed.

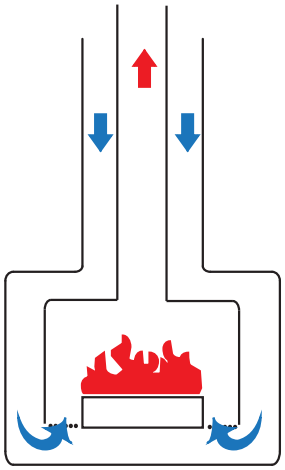
Power flue
A power flue system features a sealed combustion chamber with a fan that draws in outside air through the outer flue for combustion and expels exhaust gases through the inner flue. Because it uses external air only, it does not draw oxygen or heated air from the room.

Power flues are compact, can accommodate multiple bends, and allow flexible installation — including down-and-out, sideways, or terminating either horizontally or vertically. This versatility means power flued appliances can be installed in almost any living or working space, including bedrooms.



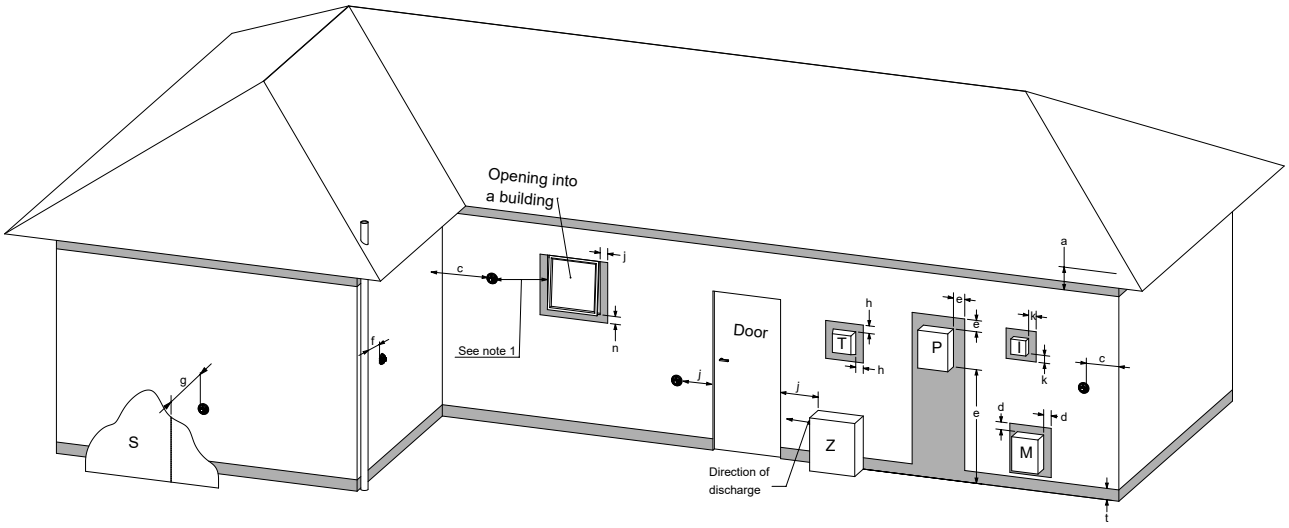
Direct vent
A direct vent flue system, like the power flue, also has a sealed combustion chamber, but differs by using natural draft to draw air, from the outside, and expel combusted gases to the outside. Like the power flue, the air quality of the room is maintained.

As direct vent flues use natural draft to move air and gases through the flue they have a larger flue size when compared to the power flue. The flue can terminate horizontally or vertically.



Appendix 2
flue terminal positioning

The following has been adapted for Rinnai Gas Fires from AS/NZS 5601.1:2022 **6.9.3 Location of flue terminals around the perimeter of a building structure**. Always reference the latest version of the standard for all the information, and the most up-to-date information.



Key

I	= Mechanical air inlet	S	= Structure
M	= Gas meter	T	= Flue terminal
P	= Electricity meter or fuse box	Z	= Fan assisted appliance only

Shading indicates prohibited area for flue terminals

		Min. clearances (mm)	
Ref.	**Description**	**Natural draught**	**Fan assisted**
a	Below eaves, balconies and other projections	300	200
b	From the ground, above a balcony or other surface	300	300
c	From a return wall or external corner	500	300
d	From a gas meter	1000	1000
e	From an electricity meter or fuse box	500	500
f	From a drain or soil pipe	150	75
g	Horizontally from any building structure or obstruction facing a flue terminal	500	500
h	From any other flue terminal, flue 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	500	300
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	150	150

Natural draft: Symmetry, Ember, Novo (direct vent models are deemed natural draft in AS/NZS 5601.1)
Fan assisted: Linear, Evolve, Arriva 752 (power flued models)

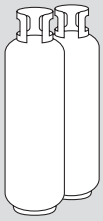
Appendix 3
running cost assumptions and calculations

It's becoming a competitive market out there and we're noticing that plans and pricing is difficult to access and compare. We've based the running costs on the below information. As the cost of LPG and Natural Gas will differ in each area, please check with your local supplier.

Natural gas
- NG price from MBIE website including GST $0.1767 incl. GST (2024)

LPG
- Average LPG price $160, source chatGPT 25 Sep 2025

45 kg LPG gas bottle energy calculation



1 kg of LPG gas contains 50.4 MJ of energy
1 kW = 3.6 MJ

This means that a 45 kg LPG bottle has approximately 2268 MJ (45 kg x 50.4 MJ)

Natural Gas: Calculating running costs
1. Convert the MJ input of the appliance to kW, for example 15 MJ/h = 4.17 kW/h
2. Calculate the approximate running cost per hour, for example 0.1767 x 4.17 kW/h = $0.73/hr

LPG: Calculating running costs
1. Calculate the cost of gas per MJ/h, for example $160 ÷ 2268 MJ = $0.07 per MJ/h
2. Calculate the approximate running cost per hour, for example $0.07 x 15 MJ/h = $1.05 / hr

Appendix 4
45 kg LPG bottle hours and weekly running costs

The weekly running costs are calculated using the information and pricing shown on the previous page, and the scenario that during cooler months the gas fire will run approximately two hours in the morning and three hours in the evening—a total of five hours use each day

Rinnai gas fireplace	Gas Input				45 kg bottle will last (hrs)		Weekly running costs (S)			
	Low		High				LPG		NG	
							$160 per 45 kg		$0.1767 per kWh	
	MJ/h	kW	MJ/h	kW	Low	High	Low	High	Low	High
Linear 800 FlameTech	15	4.17	35	9.72	151	65	$37.10	$86.45	$25.90	$60.42
Linear 1000 FlameTech	15	4.17	35	9.72	151	65	$37.10	$86.45	$25.90	$60.42
Linear 1000	15	4.17	34	9.44	151	68	$37.10	$84.00	$25.90	$58.45
Linear Indoor-Outdoor	Refer above as this is dependent on model selected									
Arriva 752	8	2.22	31.5	8.75	284	72	$19.60	$77.70	$13.65	$54.25
Evolve 952	10	2.78	34	9.44	227	67	$24.85	$84.00	$17.15	$58.45
Evolve 1253 Plus	17	4.72	34	9.44	133	67	$42.00	$84.00	$29.05	$58.45
Symmetry RDV3611	9	2.50	33	9.17	252	69	$22.05	$81.55	$15.40	$56.70
Novo Freestander, and Cube	14	3.89	30	8.33	162	76	$34.65	$74.20	$24.15	$51.45
Novo Inbuilt	14	3.89	30	8.33	162	76	$34.65	$74.20	$24.15	$51.45
Ember 600	12	3.33	23	6.39	189	99	$29.75	$56.00	$20.65	$39.55
Ember 700	14	3.89	27	7.50	162	84	$34.65	$66.50	$25.15	$46.55

This table is meant as a guide only. Please refer to the notes regarding running cost assumptions and how values have been calculated on the previous page. Always double check figures based on your own use.

For hourly running costs refer p. 4-5.

Please note
All Rinnai gas fires require electricity to run—electricity costs have not been factored into the weekly running costs.

The 45 kg LPG bottle hours does not include running times of other gas appliances in use, for example a gas water heater or a gas hob.

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