KENT WOOD FIRE RANGE

www.kent.co.nz

KENT
welcome to a warm home

IT'S KIWI FOR WARMTH

Kent wood fires have been heating New Zealand homes since the 70's. In that time more than 380,000 Kent fires have been installed - in a country of only 1.2 million homes.

It's not just that a Kent wood fire is five times more efficient than a standard wood fire that explains their popularity. It's not just the 10 and 15 year fire box warranties or the fact that they are all built in NZ either.

It's because whenever and wherever you buy a Kent wood fire we stand behind our product. That means we can help you with correct fire selection, correct use, correct installation and also provide great after-sales service and support.

This brochure features our full range of wood fires and helps you select the right Kent wood fire for your home.

If you have any questions regarding any aspect of home heating please speak to your retailer, visit www.kent.co.nz, or call us on 0800 KENTNZ.

IT ALL STARTS WITH INNOVATION.

Kent products reflect leading edge design and provide quality and efficiency. Kent pioneered the double burning principle in domestic wood heaters, increasing heating efficiency and dramatically reducing heating costs.

Kent has developed its range to meet consumer demands for clean burning fires. Our innovations in design and styling have ensured the Kent brand continues to be a popular choice for all Kiwis, regardless of house size or budget.

Wood fire installations are on the increase as wood is regarded as a sensible choice for heating NZ homes. Kent wood fires can be installed in new, old and renovated homes, and there is a model best suited for you in this brochure.

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FREQUENTLY ASKED QUESTIONS

ARE WOOD FIRES CONSIDERED A CLEAN HEATING OPTION?

Our clean-air fires are leading the world in low emissions. Low emissions are produced when dried wood is burnt in an efficient clean-air fire that is properly operated and maintained. Wood is renewable and we have plenty here in NZ. When wood burns, the CO^2 produced is absorbed by plants, grasses and trees through photosynthesis - which then produces oxygen. Wood left to rot in the open produces more CO^2, so we should not waste wood - we should cleanly burn it.

HOW DO I CHOOSE THE RIGHT SIZE FIRE FOR MY HOME?

Select the rooms you wish to heat, check that warm air can be circulated to each room, and then choose the right size fire for the total heating area. The firebox size determines how much wood is burnt and how much heat is produced. For help, refer to step 3 of the guide alongside and the heat output / heating area information underneath each of our fires. If your home layout restricts natural warm air circulation this may be improved with a ceiling fan or heat transfer kit. An over-sized fire will always run on low, causing combustion and creosote problems. An under-sized fire will fail to generate sufficient heat to warm the area.

HOW DO I CONTROL THE HEAT OUTPUT?

This is determined by the amount and quality of wood burned, the size of the logs and the fire design (efficiency, size of the firebox and the airflow controls). Placing and burning the right amount of quality wood in the firebox for your needs is a priority. By adjusting the airflow control you can lower the rate at which the wood burns and reduce heat output slightly, but lowering the air flow too much can lead to higher CO^2 emissions and particulates.

HOW DO I KEEP A FIRE GOING OVERNIGHT?

This depends on the air supply in and around the firebox, the size and type of wood burnt and the amount of wind overnight. If conditions are right, an overnight burn might be possible – provided you correctly load and burn larger dry hardwood logs e.g. manuka. An established ember bed should be loaded with larger logs and run on high for at least 45 minutes before reducing air flows in 3 x 15 minute stages. During the day we recommend that only dry softwood be burnt.

HOW MUCH HEAT DOES WOOD PRODUCE?

Wood is a great natural resource packed full of potential heat energy. 1kg of correctly dried pine wood holds 18MJs of energy, which is converted into 3.5kWs of heat in a 70% efficient wood fire (30% of the heat energy is emitted with the flue gases). A larger sized dry pine log weighs 2kg and this can produce up to 6kWs of heat in the firebox.

HOW MUCH WILL IT COST TO USE A WOOD FIRE?

We estimate that correctly dried pine firewood will cost 11.5c to provide 1 kW of heat, so to produce 10kWs of heat it would cost around $1.15. This is cheaper than electricity and LPG. Our estimation is based on a correctly operated fire, dry pine and a wood cost of $320/tonne. If you can source free dry firewood then your running costs are very hard to beat.

For more information please view the comprehensive Kent Help Desk on our website.

5 STEP **PRE-PURCHASE GUIDE**

1 CHECK YOUR LAND AREA

- If less than 2ha you can only install a clean-air wood fire approved for use in your local council area.
- If more than 2ha you can install a rural wood fire that does not need to be clean-air approved.

2 CHECK FOR LOCAL COUNCIL BY-LAWS

- National Environmental Standards permit a maximum of 1.5 grams of particles per 1 kilogram of dry wood burnt.
- Wood fire heating efficiencies must be better than 65%.
- Check if your local council has more stringent clean-air by-laws in place prior to selecting your wood fire.

3 CORRECTLY SIZE YOUR FIRE AND CONSIDER OPTIONAL FEATURES

- To heat a whole home check your insulation and heat losses, then choose a fire that can heat the area you need to heat. Note that a fire built into a wall or fireplace may convect less heat compared to a freestanding fire.
  - Small fire: a 30L firebox should efficiently burn 2 large 2kg logs to produce up to 12kW of heat for an area up to 150m^2 (a lounge/family room and one/two bedrooms).
  - Medium fire: a 45L firebox should efficiently burn 3 large 2kg logs to produce up to 18kW of heat for an area up to 210m^2 (a lounge/family room and two/three bedrooms).
  - Large fire: a 60L firebox should efficiently burn 4 large 2kg logs to produce up to 24kW of heat for an area up to 260m^2 (a lounge/family room and three/four bedrooms).
- Any warm air circulating to larger or remote areas of your home will lose its heat because the air starts to cool down while it moves around.
- To properly heat a whole home you should use an appropriate heat transfer kit as an option.
- Consider the benefit of a wetback option to help heat water in your cylinder (check if your cylinder is suitable).
- Choose a fire design that also fits in with your lifestyle.

4 CONSIDER YOUR FIRE LOCATION

- Wood fires can be built-in or freestanding.
- Fires are positioned for best flue installation.
- The position of your fire affects how well it can heat your whole home.
- Hearths must protect your floor and comply with regulations.

5 CHECK YOUR INSTALLER IS APPROVED

- Wood fires should only be installed by an approved installer.
- A NZHHA approved installer will help manage the council permit process.
- The installer can advise on the best position for your fire and flue.
- Most installers can also advise on alternative hearth designs.
- The installer should visit your home and advise on the best fire size and type for your needs.

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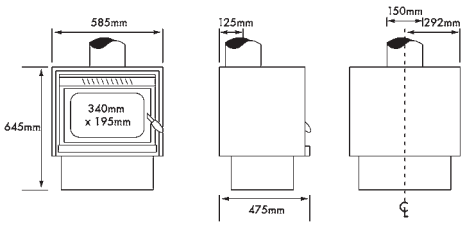
KIWI RAD II

- Clean-air approved compact radiant-heat fire*.
- Heat is emitted directly and heats all objects in its path.
- Suitable for draughty rooms with higher ceilings.
- Traditional matt black design, 5mm steel.
- Vermiculite brick and masonry brick lined firebox.
- Multi-burn firebox helps glass remain clear.
- Steel plate top for cooking use.

SPECIFICATIONS:

- Firebox size 33 litres (efficiently burns two large 2kg logs).
- Heat output 6 - 12kW (dependant on home insulation and wood use).
- Heats area up to 150m² (typically up to three standard rooms).
- Average emission rate: 0.80g/kg.
- Overall average efficiency: 69.00%.

RADIANT



NEW

Model No. KWF295-5910

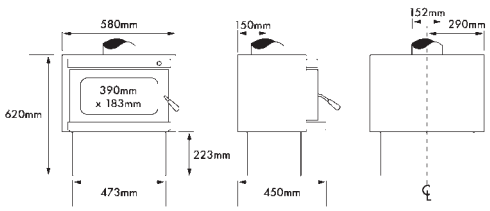
TUI RAD

- Clean-air approved compact radiant-heat fire*.
- Heat is emitted directly and heats all objects in its path.
- Suitable for draughty rooms with higher ceilings.
- Traditional matt black design, 6mm steel.
- Vermiculite brick lined firebox.
- Multi-burn firebox helps glass remain clear.
- Steel plate top for cooking use.
- Wetback (WB) option suitable for clean-air zones (1.5kW water heating).

SPECIFICATIONS:

- Firebox size 33 litres (efficiently burns two large 2kg logs).
- Heat output 6 - 12kW (dependant on home insulation and wood use).
- Heats area up to 150m² (typically up to three standard rooms).
- Average emission rate: 0.70g/kg (0.66g/kg with wetback option).
- Overall average efficiency: 71.00% (65.00% with wetback option).

RADIANT



NEW

Model No. KWF295-6931

Model No. KWF295-6932 (wetback version)

*These fires have met the Emissions and Efficiency test, Compliance Requirements (AS/NZS 4012 and AS/NZS 4013) and the Safety Requirements (AS/ NZS 2918). At time of printing, these fires are awaiting authorisation and inclusion in the clean-air product directory.

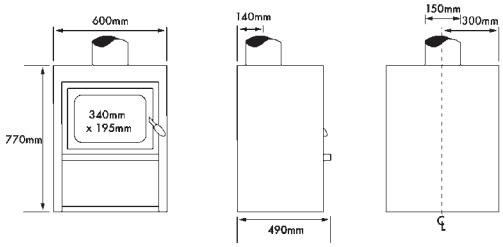
Model No. KWF295-5987 (Black)
Model No. KWF295-5991 (Pewter grey)

ASTRON

- Clean-air approved compact combi-heat fire.
- Warm air is convected around the room, combined with radiated heat.
- Suitable for better insulated rooms and standard ceiling heights.
- European matt black design, 5mm steel.
- Pewter grey colour option for enhanced contemporary style.
- Masonry brick lined firebox.
- Multi-burn firebox helps glass remain clear.
- Convenient dry wood storage using open base design.

SPECIFICATIONS:

- Firebox size 33 litres (efficiently burns two large 2kg logs).
- Heat output 6 - 12kW (dependant on home insulation and wood use).
- Heats area up to 150m² (typically up to three standard rooms).
- Average emission rate: 0.70g/kg.
- Overall average efficiency: 71.30%.



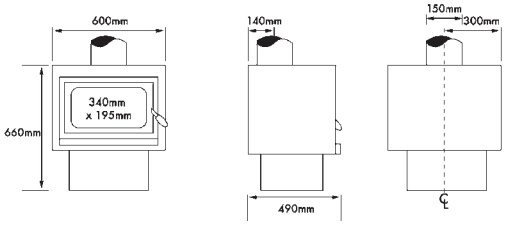
Model No. KWF295-5908

FIRENZE

- Clean-air approved compact combi-heat fire.
- Warm air is convected around the room, combined with radiated heat.
- Suitable for better insulated rooms and standard ceiling heights.
- Contemporary matt black design, 5mm steel.
- Masonry brick lined firebox.
- Multi-burn firebox helps glass remain clear.
- Lower fire size for installation in compact spaces.

SPECIFICATIONS:

- Firebox size 33 litres (efficiently burns two large 2kg logs).
- Heat output 6 - 12kW (dependant on home insulation and wood use).
- Heats area up to 150m² (typically up to three standard rooms).
- Average emission rate: 0.70g/kg.
- Overall average efficiency: 71.30%.

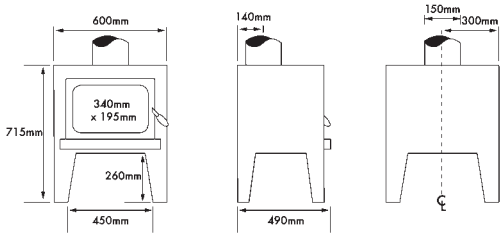


GENEVA

- Clean-air approved compact combi-heat fire.
- Warm air is convected around the room, combined with radiated heat.
- Suitable for better insulated rooms and standard ceiling heights.
- Modern angled leg matt black design, 5mm steel.
- Masonry brick lined firebox.
- Multi-burn firebox helps glass remain clear.
- Leg design emphasises size of floor area.

SPECIFICATIONS:

- Firebox size 33 litres (efficiently burns two large 2kg logs).
- Heat output 6 - 12kW (dependant on home insulation and wood use).
- Heats area up to 150m² (typically up to three standard rooms).
- Average emission rate: 1.09g/kg.
- Overall average efficiency: 65.04%.



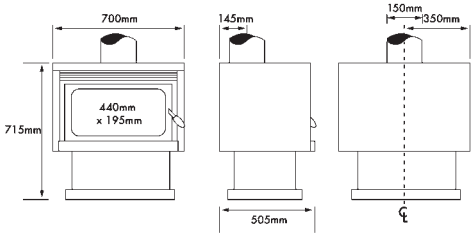
Model No. KWF295-5909

SIGNATURE

- Clean-air approved mid-sized combi-heat fire.
- Warm air is convected around the room, combined with radiated heat.
- Suitable for better insulated rooms and standard ceiling heights.
- Landscape matt black design, 5mm steel.
- Masonry brick lined firebox.
- Multi-burn firebox helps glass remain clear.
- Wide window increases size of flame picture.

SPECIFICATIONS:

- Firebox size 37 litres (efficiently burns three large 2kg logs).
- Heat output 6 - 17kW (dependant on home insulation and wood use).
- Heats area up to 210m² (typically up to four standard rooms).
- Average emission rate: 0.85g/kg.
- Overall average efficiency: 71.34%.



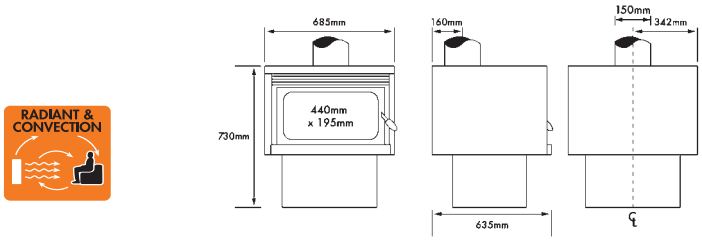
Model No. KWF295-6824

Model No. KWF295-5990

- Clean-air approved large combi-heat fire.
- Warm air is convected around the room, combined with radiated heat.
- Suitable for better insulated rooms and various ceiling heights.
- Stylish matt black design, 6mm steel.
- Masonry brick lined firebox.
- Multi-burn firebox helps glass remain clear.
- Deep and wide firebox for burning bigger logs.

SPECIFICATIONS:

- Firebox size 52 litres (efficiently burns four large 2kg logs).
- Heat output 6 - 20kW (dependant on home insulation and wood use).
- Heats area up to 260m² (typically up to five standard rooms).
- Average emission rate: 0.54g/kg.
- Overall average efficiency: 68.70%.



BARKER II

NEW

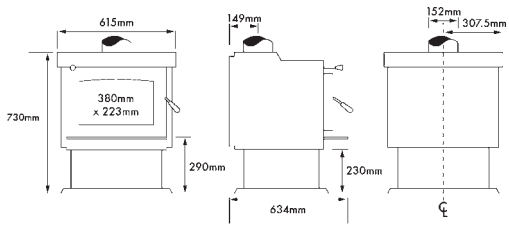
Model No. KWF295-6934

Model No. KWF295-6935 (wetback version)

- High output clean-air approved combi-heat fire*.
- Warm air is convected around the room, combined with radiated heat.
- Suitable for better insulated rooms and various ceiling heights.
- Rustic matt black design, 6mm steel.
- Vermiculite brick lined firebox.
- Multi-burn firebox helps glass remain clear.
- Extra large firebox for burning large logs.
- Steel plate top for cooking use.
- Wetback (WB) option suitable for clean-air zones (2.5kW water heating).

SPECIFICATIONS:

- Firebox size 62 litres (efficiently burns four large 2kg logs).
- Heat output 6 - 20kW (dependant on home insulation and wood use).
- Heats area up to 260m² (typically up to five standard rooms).
- Average emission rate: 0.54g/kg (0.53g/kg with wetback option).
- Overall average efficiency: 71.00% (65% with wetback option).



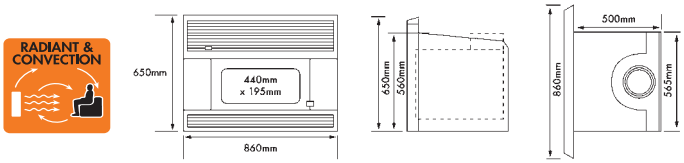
*This fire has met the Emissions and Efficiency test, Compliance Requirements (AS/NZS 4012 and AS/NZS 4013) and the Safety Requirements (AS/ NZS 2918). At time of printing, this fire is awaiting authorisation and inclusion in the clean-air product directory.

LOGFIRE MAX

- Clean-air approved mid-sized combi-heat inbuilt fire.
- Warm air is convected around the room, combined with radiated heat.
- Suitable for better insulated rooms and standard ceiling heights.
- Flush-mount matt black design, 5mm steel.
- Clay refractory brick lined firebox.
- Multi-burn firebox helps glass remain clear.
- Zero clearance kit available for new homes.

SPECIFICATIONS:

- Firebox size 39 litres (efficiently burns three large 2kg logs).
- Heat output 6 - 14kW (dependant on home insulation and wood use).
- Heats area up to 170m^2 (typically up to three standard rooms).
- Average emission rate: 1.20g/kg.
- Overall average efficiency: 65.60%.



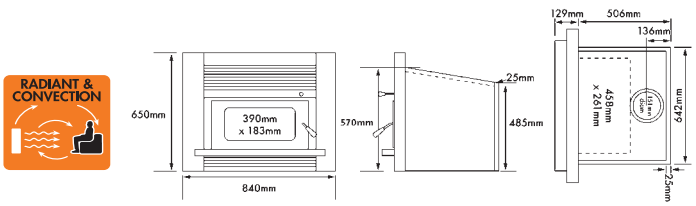
Model No. KWF295-5992

LOGFIRE SUPREME

- Clean-air approved mid-sized combi-heat inbuilt fire.
- Warm air is convected around the room, combined with radiated heat.
- Suitable for better insulated rooms and standard ceiling heights.
- Flush-mount matt black design, 6mm steel.
- Vermiculite brick lined firebox.
- Multi-burn firebox helps glass remain clear.
- Zero clearance kit available for new homes.

SPECIFICATIONS:

- Firebox size 33 litres (efficiently burns two large 2kg logs).
- Heat output 6 - 12kW (dependant on home insulation and wood use).
- Heats area up to 150m^2 (typically up to three standard rooms).
- Average emission rate: 0.88g/kg.
- Overall average efficiency: 67.00%.



NEW

Model No. KWF295-6933

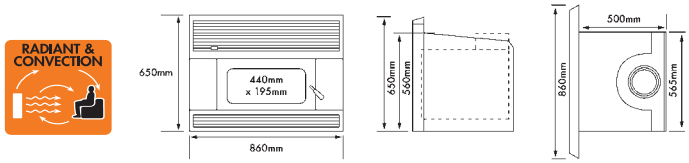
Model No. KWF296-6915

LOGFIRE INSULI

- Rural fire for properties of 2ha or more (not clean-air zones).
- Warm air is convected around the room, combined with radiated heat.
- Suitable for better insulated rooms and standard ceiling heights.
- Flush-mount matt black design, 5mm steel.
- Masonry brick lined firebox.
- Zero clearance kit available for new homes.
- A water booster (wetback) can be added to this fire.

SPECIFICATIONS:

- Firebox size 37 litres (efficiently burns three large 2kg logs).
- Heat output 6 - 14kW (dependant on home insulation and wood use).
- Heats area up to 170m² (typically up to three standard rooms).



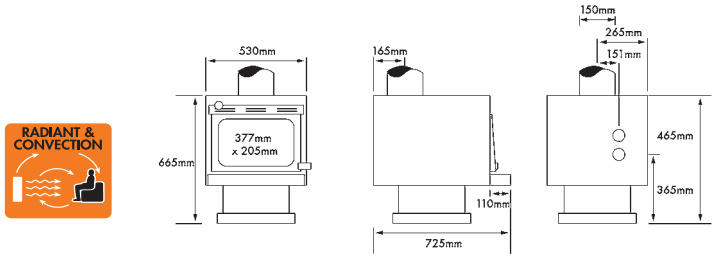
Model No. KWF296-6067

TILEFIRE

- Rural fire for properties of 2ha or more (not clean-air zones).
- Warm air is convected around the room, combined with radiated heat.
- Suitable for larger rooms and higher ceiling heights.
- Matt black design, with external tiles, 6mm steel.
- Clay refractory brick lined firebox.
- Deep and wide firebox for burning bigger logs.
- A water booster (wetback) can be added to this fire.

SPECIFICATIONS:

- Firebox size 53 litres (efficiently burns four large 2kg logs).
- Heat output 6 - 20kW (dependant on home insulation and wood use).
- Heats area up to 260m² (typically up to five standard rooms).



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KENT ACCESSORIES

FLUE KITS

Kent wood fires are sold without a flue. A New Zealand designed and manufactured Inbuilt and Freestanding flue kit is available for your chosen wood fire installation. Each flue kit contains all the parts required for a standard installation. Your dealer/installer will be able to assist you with your requirements.

FREESTANDING WOOD FIRES HAVE THREE FLUE KIT OPTIONS AVAILABLE:

- The Energy Saver Flue Kit differs from standard flue systems in the way that cooling air is introduced into the flue liners. The ceiling plate is fixed directly to the ceiling with no airspace, effectively sealing the room to reduce warm air loss. The liner in the ceiling has a perforated lower section, surrounded by a shield to ensure no ceiling insulation either enters the liner or blocks the perforation, which draws cooling air from within the ceiling cavity. This ensures optimum heat levels can be achieved.
- In the standard Freestanding Flue Kit, air from within the room enters the cooling space between the liners and the main flue via the gap between the ceiling and the ceiling plate.

Freestanding Fires	Appropriate Flue
Tui Rad, Barker II	Energy Saver Flue: KWF298-7011
Kiwi Rad II / Astron / Firenze / Geneva / Signature / Quantum / Tilefire	Standard Flue: KWF298-7005 Energy Saver Flue: KWF298-7006

Inbuilt Fires	Appropriate Flue
Supreme	Flue: KWF298-7012
Logfire Max / Logfire	Flue: KWF298-6025

LOG MOISTURE GAUGE

Firewood with less than 25% moisture content* will burn cleaner, provide maximum heat outputs, reduce fuel costs and help keep fires and flues performing properly.

SPECIFICATIONS:

- Simple to use, with digital bar-graph display.
- Accurate readings, with low 0.1% error margin.
- Senses a maximum of 40% moisture content.
- Low battery use, with auto-switch-off function.
- Four sensor prongs for reliable readings.
- Includes handy canvas bag and 9V battery.

Model No. KWF298-7004

* by wet weight ratio

HEARTH SIZING

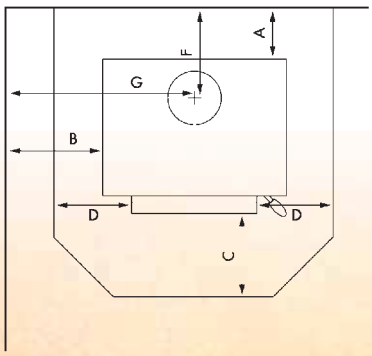
Kent recommends specific hearth sizes and insulation values for each model. These can be viewed on www.kent.co.nz. Please ensure your installer follows our guidelines. The style of hearth is very much linked to your home décor so we do not supply standard kits. Your installer will likely recommend a hearth specifically for your home. If you need help, our website has a list of hearth manufacturers and suppliers.

SPARE PARTS

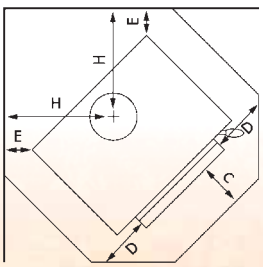
Your local dealer or installer will be able to advise on spare parts. We have listed the most common parts on the Kent Help Desk, found on www.kent.co.nz.

SPECIFICATIONS

Wall Clearances



Corner Clearances



	Minimum Installation Clearances (with flue shield) mm							
Model	A	B	C	D	E	F	G	H
Kiwi Rad II	140	285	300	200	100	262	580	400
Tui Rad	100	400	300	200	200	251	690	512
Astron	100	225	300	200	50	235	525	365
Firenze	100	225	300	200	50	235	525	365
Geneva	100	225	300	200	50	235	525	365
Signature	100	250	300	200	50	245	600	400
Quantum	100	300	300	200	100	210	642	455
Barker II	255	435	300	200	190	404	743	481
Tilefire (non clean-air)	100	400	300	200	50	265	655	350
Logfire Max	Inbuilt	Inbuilt	300	200	Inbuilt	Inbuilt	Inbuilt	Inbuilt
Logfire Supreme	Inbuilt	Inbuilt	300*	200	Inbuilt	Inbuilt	Inbuilt	Inbuilt
Logfire Inbuilt (non clean-air)	Inbuilt	Inbuilt	300	200	Inbuilt	Inbuilt	Inbuilt	Inbuilt

	Fire dimensions (mm) and firebox volume (Litres)				Performance			
Model	Width	Depth	Height	Firebox	Output range	Maximum heat area	Average emissions	Average efficiency
Kiwi Rad II	585	475	645	33L	6-12kW	150m²	0.80g/kg	69.00%
Tui Rad	580	450	620	33L	6-12kW	150m²	0.70g/kg (0.66 WB)	71.00% (65% WB)
Astron	600	490	770	33L	6-12kW	150m²	0.70g/kg	71.30%
Firenze	600	490	660	33L	6-12kW	150m²	0.70g/kg	71.30%
Geneva	600	490	715	33L	6-12kW	150m²	1.09g/kg	65.04%
Signature	700	505	715	37L	6-17kW	210m²	0.85g/kg	71.34%
Quantum	685	635	730	52L	6-20kW	260m²	0.54g/kg	68.70%
Barker II	615	634	730	62L	6-20kW	260m²	0.54g/kg (0.53 WB)	71.00% (65% WB)
Tilefire (non clean-air)	530	725	665	53L	6-20kW	260m²	non clean-air	non clean-air
Logfire Max	860 (565 Int)	565 (500 Int)	650 (560 Int)	39L	6-14kW	170m²	1.20g/kg	65.60%
Logfire Supreme	840 (642 Int)	635 (506 Int)	650 (570 Int)	33L	6-12kW	150m²	0.88g/kg	67.00%
Logfire Inbuilt (non clean-air)	860 (565 Int)	565 (500 Int)	650 (560 Int)	37L	6-14kW	170m²	non clean-air	non clean-air

* 45mm thick hearth.

YOU CAN **TRUST US**

The Kent brand is owned by Aber, a Hamilton based company that specialises in sourcing, designing and supplying home comfort solutions to New Zealanders. In addition to wood fires, the Kent product range also includes gas fires, heat pumps and portable heaters.

Kent wood fires are manufactured in Auckland and Christchurch using the latest production techniques, robust materials and quality controls. Each fire has a unique serial number, providing peace of mind if a problem ever needs to be rectified.

Masonry or Clay fireboxes are guaranteed for 10 years and Vermiculite fireboxes for 15 years (some brands ask you to pay a fee for extending a five year period into 10 years) and the glass, glass seal, door seal, fire bricks, flue, secondary air system and removable baffle are guaranteed for one year.

All Kent product warranties can be easily registered online using our customer-friendly form, this provides reassurance should any need arise in the future.

Warranties apply to all products from date of purchase by the original consumer for use and operation as intended in our instructions. Warranties do not cover damage caused by burning improper fuels (driftwood/treated wood/coal or plastic-based waste). Installation must be carried out by a registered installer. Fitness for purpose, overall system design and installation and servicing quality is solely the responsibility of the dealer/installer.

MASONRY & CLAY FIREBOX 10 YEAR WARRANTY

VERMICULITE FIREBOX 15 YEAR WARRANTY

COMPONENTS 1 YEAR WARRANTY

KENT®
welcome to a warm home

Kent products are distributed by:
Aber Holdings Ltd T/A Aber,
17 Mainstreet Place, Te Rapa, Hamilton 3241
Free Phone: 0800 161 161
Free Fax: 0800 163 163
WWW.KENT.CO.NZ | WWW.ABER.CO.NZ

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New Zealand Home Heating Association Inc.

MM336-03/11