

Australia's most efficient wood heaters



QUADRA-FIRE[®]

NOTHING BURNS LIKE A QUAD

 **FORGE & FLAME**



The Quadra-Fire difference

In America, before the Clean-Air Act took effect, there were more than 500 wood stove manufacturers around the country. In 1985, almost all of them stopped making stoves rather than adapt to the more stringent regulations. Most of those that remained turned to catalytic combustion as a solution. But the company now called Quadra-Fire chose instead to look at wood burning in an entirely new way.

After nearly two years of research and development, founders Alan Trusler and Dan Henry developed and patented the Quadra-Burn system that burns and re-burns gases and smoke in four different zones of the firebox. The technology set a new standard for clean, fuel-efficient heating with wood. And because it is non-catalytic, the system does not degrade in performance over time. For over 20 years, our stoves have been the cleanest burning non-catalytic wood stoves tested by the EPA. Tested to Australian hardwood, Quadra-Fire wood fires have the highest efficiencies of any wood product on the Australian market. The average efficiency of indoor wood heaters on the Australian Market is 65%. Quadra-Fire has an average efficiency of up to 85% with a maximum of up to 91%. This equates to substantial wood savings to you the customer and makes us the most efficient slow combustion heater on the market, a title which we have now held for over 15 years.

Each Quadra-Fire stove is designed with a mind toward efficiency and an eye toward beauty. We put great care into every product, using thick steel and design details that both enhance performance and keep the stove and wood fireplace working for you day after day, for many, many years. Efficient, reliable, easy-to-use, and environmentally friendly, Quadra-Fire is always the smart choice for alternative-energy home heating.



Tradition of excellence

With Quadra-Fire, performance comes standard. These durable wood-burning stoves and wood fireplaces are built to last. It all started with the development of the Four-Point Burn System. This patented technology produced intense rolling flames so efficient, it dawned the inception of the Quadra-Fire name.

Next came Automatic Combustion Control (ACC). This advanced heat-management technology feeds the fire with air when it's needed most – for precision start-up and consistent, extended burns. Today, Quadra-Fire creates the cleanest burning, easiest to operate and most durable wood stoves available. It's a commitment, a tradition and a guiding principle of this rugged brand.

Outside air ready

All Quadra-Fire wood fireplaces are outside air kit ready. An outside air kit helps to provide additional air for combustion to the fireplace by drawing oxygen from outside the home. This helps the performance of the fireplace in properties that are particularly tightly-constructed or well insulated. If you are installing a wood burning fireplace in a new home, Quadra-Fire fireplaces are available with outside air kit to overcome air balance issues associated with modern construction.



visionLINE™

Fully tested & compatible with VisionLINE Air Insulated flue.

Energy efficiency – what does it mean?

The average Southern Australian household will burn between 4-6 tons of wood per heating season. The average Australian slow combustion unit has an efficiency rating of 65%.

Automatic Combustion Control

Automatic Combustion Control (ACC) is an advanced heat-management technology from Quadra-Fire. ACC feeds the fire with air when it's needed most – for precision start-up and consistent, extended burns. Whether you are starting a cold stove, or reloading for the long burn, the automatic air control provides all the extra air to start the burning process, and then turns the stove down to your desired rate.



Four-Point Burn

The patented Quadra-Fire Four-Point Burn System produces intense rolling flames. Four combustion cycles extend the heat, enhance the fire and increase efficiency for durable, long-lasting performance.

1. Precision Start-Up

Airflow quickly routes to the heart of the fire.

2. Clear View

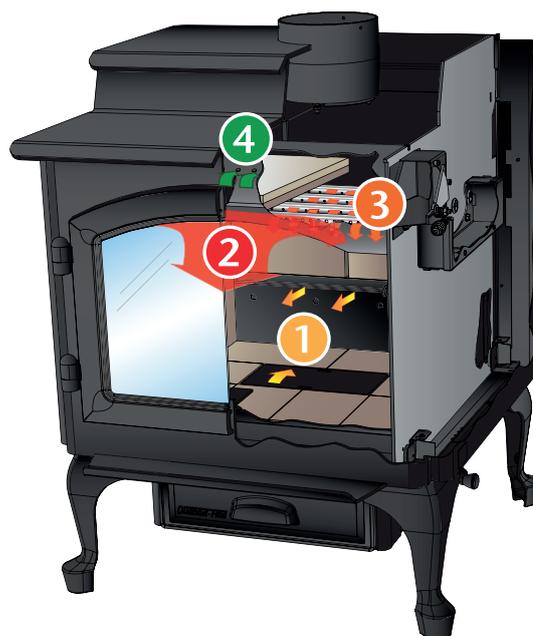
A shield of air runs behind the door, aiding combustion and keeping the glass clean.

3. Tertiary Burn Zone

Superheated air ignites flammable gases rising from the wood.

4. Quaternary Burn

Remaining impurities are burned above the baffle before exiting up the chimney.



Quadra-Fire's average rating is up to 85%.

This equates to around 2 tons of wood being saved per year by purchasing a Quadra-Fire. With the average price of wood in most metropolitan areas around \$450 per ton, this can mean a saving of around \$900 per year.

Add to that a warranty that is industry leading warranty of beyond 10 years and features such as our patented Automatic Combustion Control and Quad-Burn Technology, makes Quadra-Fire the smartest choice for your wood burning fireplace.

All figures quoted are tested on Australian Hardwood per AS/NZS 4012/13

Discovery 31LE

Great heat output in a convenient design

The 31LE Millennium wood stove celebrates the 25th anniversary of the best-selling 3100 Millennium wood stove. The unique design features an integrated wood storage area, together with all the Quadra-Fire features and technology... plus the added feature of optional tiled side panels to enhance the overall appearance and complement its surrounds.



Features

- Automatic Combustion Control (ACC)
- Quadra-Fire's patented four-point burn technology
- Tuned for optimum burn time and performance
- Convenient wood storage
- Cast iron door with large ash lip
- Solid 6-8mm steel construction
- 8mm active cook top
- Most comprehensive warranty on the market

- 🕒 Avg. Burn Time: Up to 10 hours
- 🔥 Avg. Efficiency: 71%
- 🔥 Peak Efficiency: 83%
- 🌿 Emissions: 1.4gms/kg
- 🔥 Heating Capacity: Up to 270sqm
- 🔧 Max Log Length: 450mm



43 Millennium

Longer burns with impressive heat output

The classic design of the 43 Millennium fireplace allows it to fit into any room. Combining durable construction with impressive performance, the 43 Millennium delivers high heat output and ultra low emissions.



Features

- Automatic Combustion Control (ACC)
- Quadra-Fire's patented four-point burn technology
- Tuned for optimum burn time and performance
- Cast iron door with large ash lip
- Solid 6-8mm steel construction
- 8mm active cook top
- Most comprehensive warranty on the market

- 🕒 Avg. Burn Time: Up to 12 hours
- 🔥 Avg. Efficiency: 64%
- 🔥 Peak Efficiency: 89%
- 🌿 Emissions: 1gms/kg
- 🔥 Heating Capacity: Up to 300sqm
- 🔧 Max Log Length: 460mm



4300 Step Top

Customize the look and feel that works for your space



-  Avg. Burn Time: Up to 12 hours
-  Avg. Efficiency: 64%
-  Peak Efficiency: 89%
-  Emissions: 1gms/kg
-  Heating Capacity: Up to 300sqm
-  Max Log Length: 460mm





The 4300 Step Top is designed to allow you to customize the look and feel that works for your space. And as always, we keep easy operation in mind. Using the Automatic Combustion Control (ACC) makes this stove easy to light and allows you to give it a boost of air anytime the fire needs it. And don't worry, once the ACC is engaged you can just walk away and enjoy your day, it will close automatically in about 20 minutes.

Base Options



Queen Anne Legs - Satin Nickel



Queen Anne Legs - Black



Pedestal Base



Straight Cast Legs

Door Trim Options



Black Arched Door



Black Arched Door
with Satin Nickel Trim



Black Rectangular Door



57 Step Top

Largest unit in the range
plus extra long burn time

The 57 Step Top wood stove is designed to deliver powerful performance in an attractive step-top design. Featuring durable construction, a fully welded, brick lined firebox with thick-plate steel and heavy duty hinges, the 57 Step Top offers a burn time of up to 21 hours.



-  Avg. Burn Time: Up to 21 hours
-  Avg. Efficiency: 65%
-  Peak Efficiency: 73%
-  Emissions: 1.5gms/kg
-  Heating Capacity: up to 370sqm
-  Max Log Length: 480mm



Base Options



Queen Anne Legs - Satin Nickel



Queen Anne Legs - Black



Pedestal Base

Door Trim Options



Black Arched Door



Black Arched Door
with Satin Nickel Trim



Expedition I

Feature packed with functional design in mind

Big warmth comes to smaller spaces with the easiest wood insert to use. Fitting most fireplace openings, the Expedition I lets you load your wood, light the fire and enjoy the comfortable warmth thanks to its one touch ACC (Automatic Combustion Control) system. Even with its more compact size, you can enjoy up to six hours of heating on a full load of wood. There's no need for you to stick around and tend to the fire; just savour the warm atmosphere with the easiest wood insert to use. The flush transitional look allows this insert to fit any room setting.

SHOWN WITH OPTIONAL CAST SURROUND

Features

- Automatic Combustion Control (ACC)
 - Quadra-Fire's patented four-point burn system
 - Solid 6-8mm steel construction
 - Tuned for optimum burn time and performance
 - Most comprehensive warranty on the market
 - Optional Cast Iron Surround
 - Compact size to fit smaller fireplaces
 - Thermostatically controlled variable speed fan standard
 - ZC installation available
- 🕒 Avg. Burn Time: Up to 6 hours
 - 🔥 Avg. Efficiency: 70%
 - 🔥 Peak Efficiency: 77%
 - 🌿 Emissions: 0.8gms/kg
 - 🔥 Heating Capacity: Up to 150sqm
 - 📏 Max Log Length: 457mm



Expedition II

A traditional fireplace, sleek in design

The Expedition II steel wood insert provides a great value for those looking for the easiest wood insert to operate. Powered by the Quadra-Fire four-point burn system, The Expedition II provides an impressive fire that can be easily seen through the large cast iron glass door.

Automatic Combustion Control (ACC) provides you with more air when you want it for easier start up or that extra boost of heat when needed. This operates automatically once you set the ACC so no need to stick around and tend the fire, just enjoy the heat.



Features

- Automatic Combustion Control (ACC)
- Quadra-Fire's patented four-point burn system
- Solid 6-8mm steel construction
- Tuned for optimum burn time and performance
- Most comprehensive warranty on the market
- Optional Cast Iron Surround
- Thermostatically controlled variable speed fan standard
- ZC installation available

- 🕒 Avg. Burn Time: Up to 8 hours
- 🔥 Avg. Efficiency: 61%
- 🔥 Peak Efficiency: 78%
- 🌿 Emissions: 1.4gms/kg
- 🔥 Heating Capacity: Up to 240sqm
- 📏 Max Log Length: 520mm



WS18

Australia's most efficient wood burning stove

The Eco-Choice WS18 medium-size wood-burning stove delivers warmth and comfort to your home, while being easy to operate and maintain.

The 'Easy start' system provides air straight into the heart of the fire with a single air control making lighting and re-loading a breeze.

The durable steel construction and brick-lined firebox ensures the WS18 will deliver heat for years to come.



Features

- Eco-Choice 'Easy-start' system
- Quadra-Fire's patented four-point burn technology
- Tuned for optimum burn time and performance
- Cast iron door with large ash lip
- 4-6mm steel construction
- 6mm active cook top
- Most comprehensive warranty on the market

- 🕒 Avg. Burn Time: Up to 8 hours
- 🔥 Avg. Efficiency: 85%
- 🔥 Peak Efficiency: 86%
- 🌿 Emissions: 1.3gms/kg
- 🔥 Heating Capacity: Up to 210sqm
- 🔧 Max Log Length: 460mm



WS22

Longer burn time with impressive firebox size

The Eco-Choice WS22 wood burning stove suits larger homes and boasts an impressive firebox size and burn times.

Featuring the same technology as the WS18, the step top design gives you appealing looks and a dual cooking zones from boil to simmer.



Features

- Eco-Choice 'Easy-start' system
- Quadra-Fire's patented four-point burn technology
- Tuned for optimum burn time and performance
- Cast iron door with large ash lip
- 4-6mm steel construction
- 6mm active cook top
- Most comprehensive warranty on the market

- 🕒 Avg. Burn Time: Up to 12 hours
- 🔥 Avg. Efficiency: 82%
- 🔥 Peak Efficiency: 85%
- 🌿 Emissions: 1.2gms/kg
- 🔥 Heating Capacity: Up to 300sqm
- 🔪 Max Log Length: 560mm





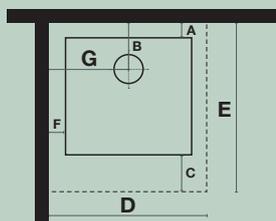
31LE WITH OPTIONAL TILE INSERTS

Wood Stove unit clearances

PARALLEL POSITIONING

Description	Default Flue Kit		Default Flue Kit with Flue Shield (WS22 only)
	WS18	WS22	
A Min. clearance from back of unit to rear wall	175	300	100
B Min. clearance from centre of spigot to rear wall	345	468	268
C Min. distance from front of base to floor protector front	300	300	300
D Min. floor protector front width	800	800	800
E Min. distance from rear wall to front of floor protector	1066	1291	1091
F Min. distance from unit side to side wall	300	400	400
G Min. clearance from centre of spigot to side wall	618	730	730

Measurements in millimetres.



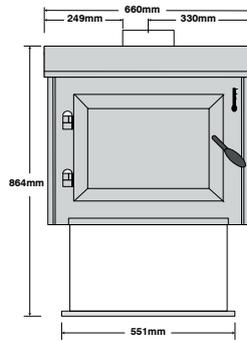
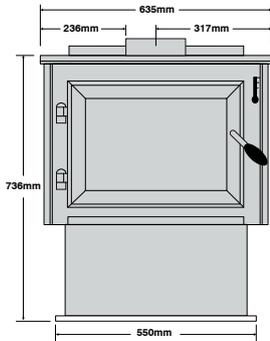
---- Floor protector

Specifications

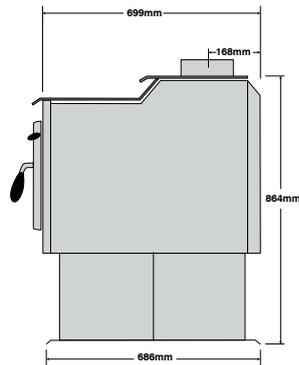
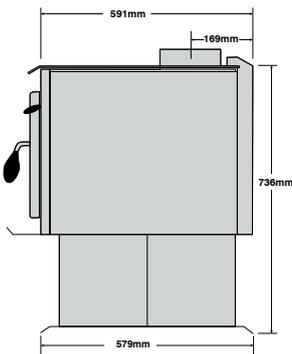
WS18

WS22

Front View



Side View

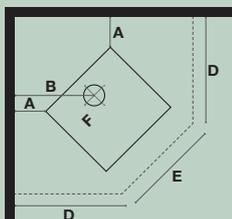


Wood Stove unit clearances

CORNER POSITIONING

Description	Default Flue Kit	
	WS18	WS22 with Flue Shield
A Min. clearance from firebox corner to walls	155	75
B Min. distance from centre of spigot to side wall	499	427
C Min. distance from corner wall to floor protector front	1291	1301
D Min. floor protector projection from corner wall	728	731
E Min. floor protector front width	800	800
F Min. overall floor protector depth	1427	1435

Measurements in millimetres.



---- Floor protector

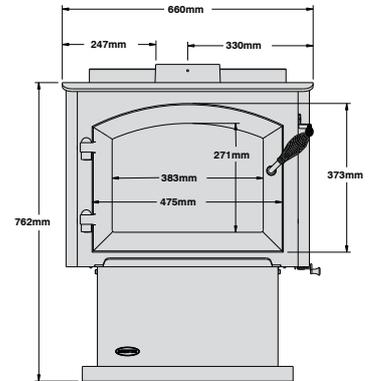
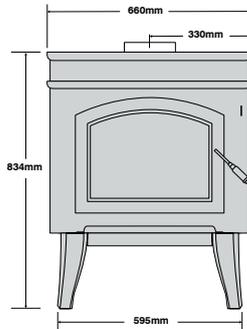
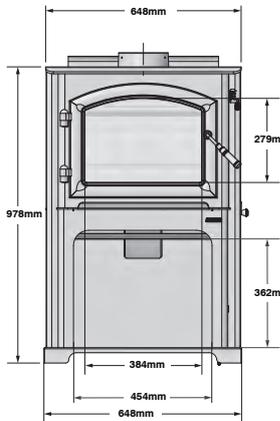
Specifications

Discovery 31LE

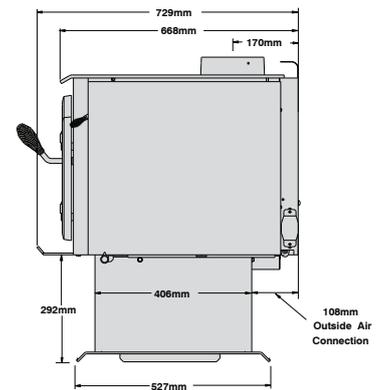
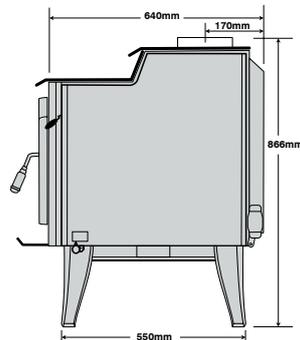
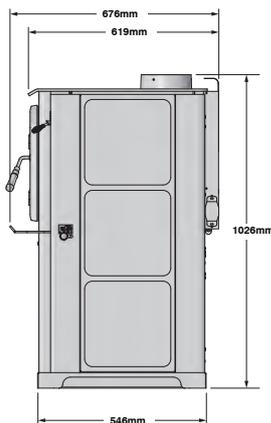
4300 Step Top

43 Millennium

Front View



Side View

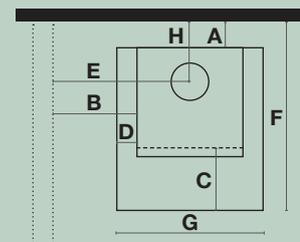


Quadra-Fire freestanding unit clearances

PARALLEL POSITIONING with Australian default flue kit fitted

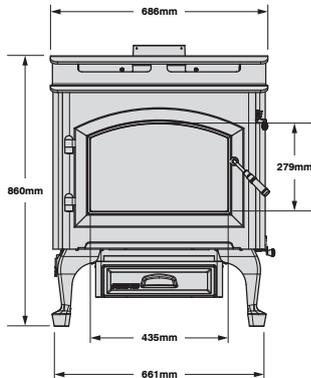
	31LE	4300	43ST	5700ST
A	175	200	125	200
B	360	400	375	330
C	300	300	400	450
D	80	69	70	76
E	668	730	705	673
F	1062	1133	1170	1410
G	800	798	800	850
H	345	370	296	365

Measurements in millimetres.

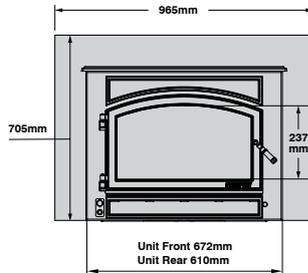


57 Step Top

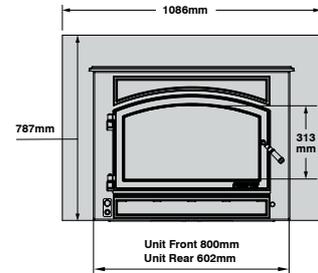
Front View



Expedition I

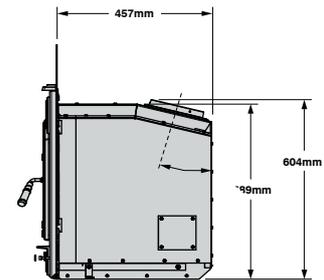
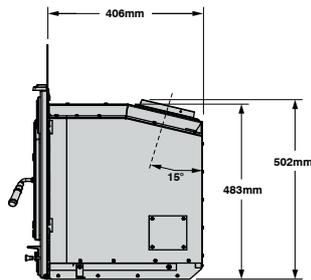
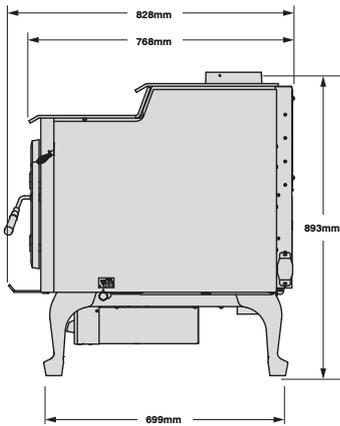


Expedition II



Available with either legs or pedestal.

Side View

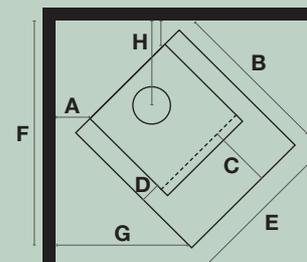


*Cast dimensions differ, refer to installation manuals available on website

CORNER POSITIONING with Australian default flue kit fitted

	31LE	4300	43ST	5700ST
A	225	250	150	100
B	887	933	1181	1210
C	300	300	400	450
D	80	69	70	76
E	800	798	800	850
F	1322	1380	1400	
G	756	910	835	
H	532	545	505	462

Measurements in millimetres.



NOTE: Flue Collar size is 6 inch (152mm) diameter (ID). Above dimensions are for reference only. We recommend measuring individual units at installation. Refer to installation manual for detailed specifications on installing this product. Quadra-Fire reserves the right to update products and/or specifications periodically. The images and descriptions in this brochure are provided to assist in product selection only.



quadrafire.com.au

Disclaimer: Whilst Forge & Flame makes every effort for accuracy, some finishes in this brochure may vary from actual product.



Made in USA

