



PYROCLASSIC FIRES

Australian Customer Handbook





Every fire is
handcrafted in
Hawkes Bay,
New Zealand

carboNZero

In February 2017, Pyroclassic Fires became the first wood fire manufacturer in the world to achieve carboNZero certification!

We could not think of a better way to demonstrate our commitment to the environment than by joining the internationally accredited carboNZero programme. We have now achieved 2 years of carboNZero certification and we decreased our carbon emissions by 7.5% in the first year.

What does this mean for you?

You can have confidence that by supporting Pyroclassic Fires, you are contributing to a global effort to promote and help lower greenhouse gas emissions.

“It is great to see a company like Pyroclassic Fires taking action to reduce their impacts. This achievement should be celebrated by everyone at Pyroclassic Fires and we look forward to seeing how this leadership evolves in their sector.”

- Dr Ann Smith, Enviro-Mark Solutions CEO



Hinewai Project - Photo credit: Tricia Hewlett

History

The Pyroclassic wood fire was developed by scientists from the Department of Scientific & Industrial Research in New Zealand. They were tasked with creating the ultimate solution for burning wood in the most environmentally conscious way. After nearly a decade of design and research, the Pyroclassic was born!

For more than 30 years, this unique wood fire has led the market in efficiency and clean air excellence.

Pyroclassic Fires is now a family owned business, run in Hawkes Bay by father and son, Alastair and Ric. Our passionate and hardworking team make sure every fire that leaves the factory upholds the exceptional quality standard that Pyroclassic Fires is renowned for.



The Evolution



Pyroclassic Mini



Suitable for homes less than 120m²



Available with a 1.5kW wetback booster



Clean air approved low emission burner (0.3g/kg)



More than 200 colour variations



Very low 0.9kg per hour fuel consumption rate



Dimensions: 455 (W) x 452 (L) x 625 (H)

Pyroclassic Mini Black

Pyroclassic IV



Pyroclassic IV Black



Suitable for homes 130m² - 200+m²



Available with a 3.7kW high output wetback



New Zealand's only clean air approved wood fire to burn overnight



More than 200 colour variations



Very low 1.1kg per hour fuel consumption rate



Deluxe heavy duty cooktop

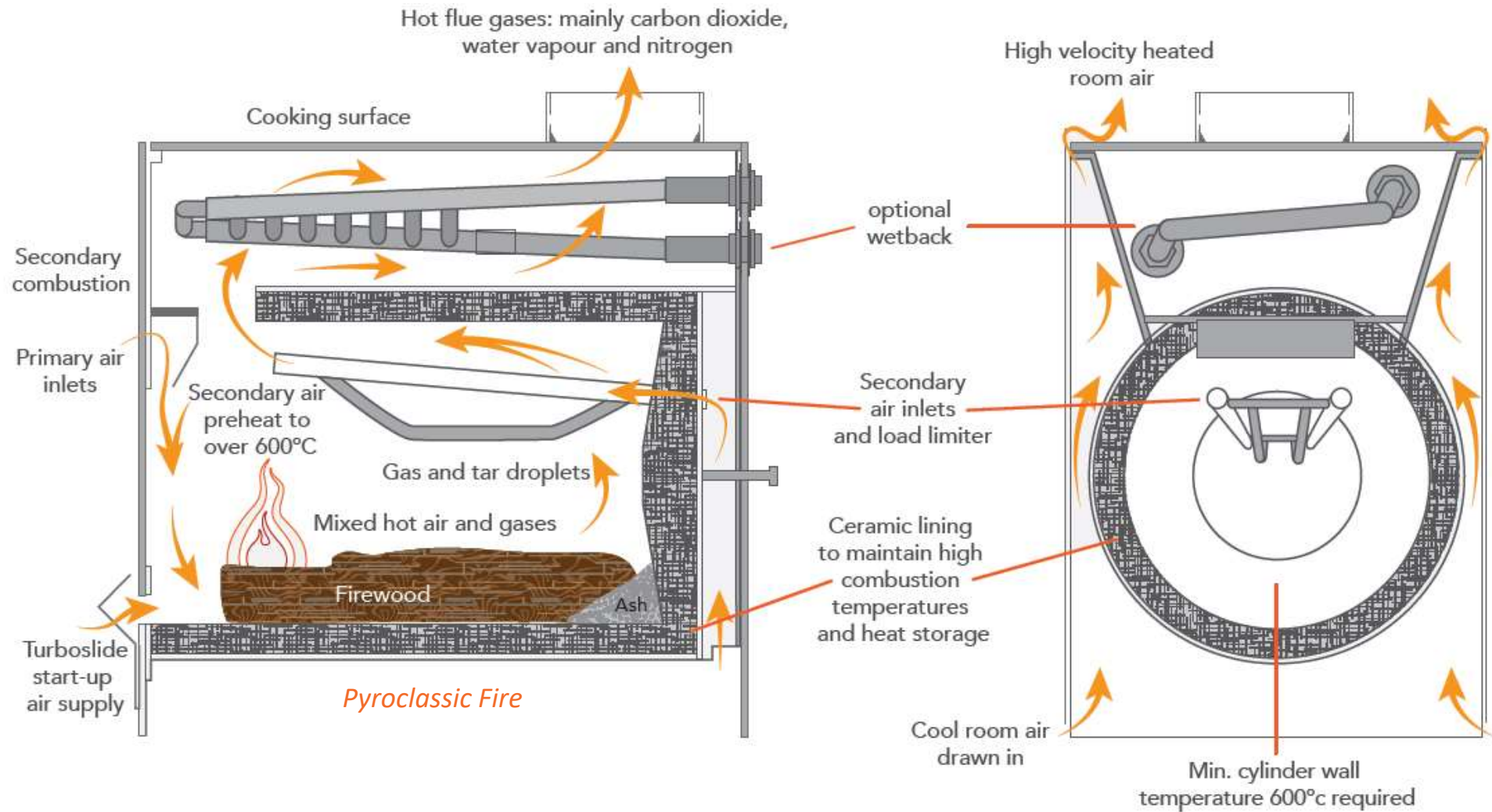


Dimensions: 455 (W) x 645 (L) x 625 (H)

Pyroclassic Anatomy



How a Pyroclassic Fire works



What area can a Pyroclassic Fire heat?

Age, size, insulation and ceiling height are just a few of many factors taken into consideration when a wood fire specialist is selecting the right fire for your home. Take a look at our hypothetical situations below: if operated correctly, these houses should be beautifully warm and dry with a Pyroclassic Fire.

NEW HOUSE

Pyro IV – Jo's house is 2 years old, is fully insulated with double glazing and aluminium joinery. The fire is centrally located with a floor area of 250m² and 2.4m ceiling height.

Pyro Mini – Steve's house is a well insulated, 150m² new-build. It is double glazed with aluminium joinery.

15 - 25 YEAR-OLD HOUSE

Pyro IV - Simon's house is a moderately insulated 180m² home with single glazing and aluminium joinery. The ceiling height is a standard 2.4m.

Pyro Mini – David has recently redone the insulation in his 120m² 20 year-old home. It has aluminium joinery and a standard ceiling height of 2.4m.

OLD HOUSE

Pyro IV - Rachel's house is an old bungalow, single glazed with timber joinery. The fire sits on the external wall with a floor area of 130m².

Pyro Mini – Catherine's house is a 85m² farm cottage with poor insulation and timber joinery.



Emissions & Efficiency

Unlike traditional fireboxes, the cylindrical Pyroclassic Fire chamber retains heat like a kiln, storing excess heat for consistent warmth. Reload less and stay warm for longer!



- All Pyroclassic Fires are low emission burners, so you can have confidence that keeping warm this winter has a minimal effect on the environment.
- With a very low emissions rate of **0.3g/kg**, Pyroclassic Fires have less than half the emissions of most traditional wood fires.
- The north/south orientation of the firebox provides along the grain, efficient burning.
- Save money on firewood with a low fuel consumption rate of only **0.8kg/per hour** (Mini) & **1.1kg per hour** (IV).

Pyro Mini - Wet: **66.5%** efficiency | Dry: **66.3%** efficiency

Pyro IV - Wet: **64.2%** efficiency | Dry: **66.1%** efficiency

Wood Fuel

All wood must be dry, ideally **under 20% moisture content**. Wood with a higher moisture content will affect burn times and performance, which may result in the need for more frequent maintenance.

SOFTWOOD

Jane only burns pine. Pine is a softwood so because of its density she will only ever achieve a 3 - 5 hour burn cycle as only 3.5 - 5.5kgs of fuel will fit comfortably inside the cylinder.

HARDWOOD

Troy only burns well-seasoned kanuka. As this is a much denser wood to what Jane's burning, he will achieve long burn times of 10hrs+ as 7.5-9.5kgs of fuel will fit inside the cylinder per heat cycle.

MIXED

Haley burns a mixture of wood fuels, predominantly softwoods during evenings and weekends and hardwoods whilst at work or overnight.

Fuel consumption: Pyro Mini = **0.8 kg per hour** | Pyro IV = **1.1kg per hour**

The examples above are hypothetical situations using the Pyroclassic IV.



Can I burn driftwood and other treated timbers?

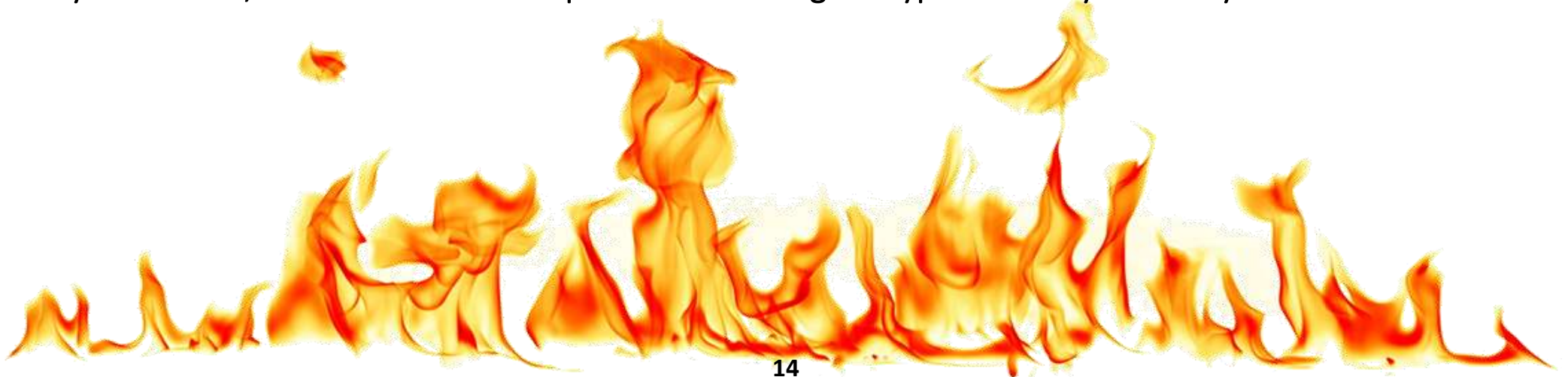
Do **NOT** burn driftwood or treated timber in a Pyroclassic Fire. Treated timber and certain enamel and lead based paints can create a volatile environment once heated up to high temperatures. When you burn driftwood, the salts become very corrosive and eat into the softer ceramics leaving behind the harder silica aggregates.



Extended Burn Times

- To determine how much wood you need for the desired burn time, work on **1.1kg per hour** for a Pyroclassic IV and **0.8kg per hour** for a Pyroclassic Mini.
- Extended burn times are easily achieved with well-seasoned hardwood. With the longer cylinder of the Pyroclassic IV, enjoy overnight burns of **10 - 12hr+**.
- Logs should be approximately **100 - 120mm** (diameter) x **300 - 400mm** (long) for the Pyroclassic IV and **100 - 120mm** (diameter) x **200mm - 250mm** (long) for the Pyroclassic Mini.

Watch our tutorial on the best way to achieve extended burn times at www.pyroclassic.com.au. Whilst you're there, check out our time-lapse video showing the typical burn cycle in a Pyroclassic IV.



Colour

- Select from more than **100** powder coated coloured panels. Our colour upgrade gives you more colour than ever before with powder coated corner strips and a new lower front panel.
- We have tool sets and wood bins to match!
- Feel like a change? Order new panel sets and corner strips from your local dealer or online at www.pyroclassic.com.au/shop.



Pyro Mini in Hurstmere Road
(colour upgrade)



Pyro Mini in Mamba Green
(colour upgrade)



Pyro IV in Hurstmere Road
(colour upgrade)



Pyro IV in Schweppes Yellow
(colour upgrade)

Cooking

- The 10mm thick steel cooktop is perfect for all types of cooking, from simmering a casserole to roasting potatoes.
- Increase your cooking potential on your Pyroclassic IV with our stylish and durable cooktop oven, which includes a handy trivet and embroidered oven mitt.
- Cooktop ovens are available in black to match your fire.



NOTE: Cooktop oven only available for Pyroclassic IV fires



Wetback

Both the Pyroclassic Mini and Pyroclassic IV can be fitted with a wetback, providing a sustainable and more affordable long term solution for water heating.

Pyroclassic Mini – opt for our **1.5kW wetback booster** to assist your hot water cylinder this winter.

Pyroclassic IV – available with a **high output 3.7kW wetback** for all your domestic hot water needs.

- Pyroclassic Fires are more efficient with a wetback than without one!
- All Pyroclassic fires can have a wetback retrofitted after initial installation.
- The unit is fitted in the top chamber, outside the burn environment, ensuring no cooling effect on the combustion zone. This allows clean-burning secondary combustion.



Pyroclassic IV 3.7kW wetback

Essentials Kit

Our Essentials Kit has everything you need to make the most of your new Pyroclassic Fire.



DIGITAL MOISTURE METER

Burning well-seasoned wood is a necessity. Ensure your wood is dry enough to be used as fuel by testing it with a digital moisture meter.



FIRELIGHTERS

Forget messy and crumbly supermarket firelighters, this handy twin pack will last a full season.



TOOL SET & STAND

All Pyro tools are designed to perfectly fit the radius of the cylinder for ease of use and to keep your cylinder in good condition. Tools are finished in a durable powder coat in Black Ripple, to match your fire.

Small Raised Wood Bin

The Pyroclassic small raised wood bin is perfect for installations when a hearth is not required because the floor already meets the standards for a non-combustible floor, or there is a continuous layer of non-combustible material installed on the floor.

Enjoy the height advantages of our traditional large raised hearth & wood bin, without the larger footprint. The woodbin is reversible so you have the flexibility to use it as a drawer (below) or open-fronted wood bin (next page).

All wood bins are available powder coated in Black Ripple to match your fire. For lovers of colour, opt for our custom colour upgrade (additional fee).

Pyroclassic IV raised wood bin dimensions:

W 480mm x D 680mm x H 250mm

Pyroclassic Mini raised wood bin dimensions:

W 480mm x D 480mm x H 250mm



Large Raised Hearth & Wood Bin

The Pyroclassic large raised hearth and wood bin meets all required clearances so it can be used as a direct replacement for a traditional insulated tiled hearth, even in a corner installation.

The wood bin raises the Pyroclassic fire up to the perfect height for reloading firewood and using the cooktop.

Best of all, the unit is reversible: use it as a drawer for stacking kindling and firelighters, or as a stylish and practical open wood bin.

It will slide easily on a carpeted surface, and for hard floors we can supply self adhesive carpet tiles, allowing it to slide on your tile or wooden floor.

All wood bins are available powder coated in Black Ripple to match your fire. For lovers of colour, opt for our custom colour upgrade (additional cost).

Pyroclassic IV hearth dimensions:

W 680mm x D 950mm x H 250mm

Pyroclassic Mini hearth dimensions:

W 680mm x D 750mm x H 250mm



Help Centre – FAQs & Troubleshooting

The following pages will cover a few of the questions we are most frequently asked. If the answer to your question is not included here, please refer to the *Help Centre* at www.pyroclassic.com.au

If you can still not find the answer you are looking for, please contact your local dealer or email info@pyroclassic.com.au



Where do I buy replacement parts?

Call your local dealer and see if they have the part you require in stock. If they don't, they can either order the part in for you, or you can purchase direct from our online shop by credit or debit card and they will be shipped straight to your door.

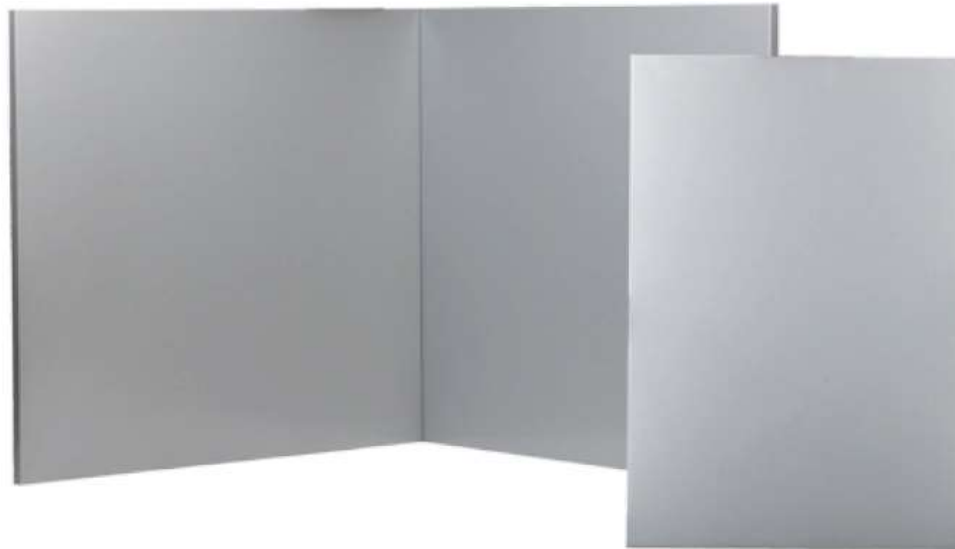
www.pyroclassic.com.au/shop



Why do I need a wall screen?

Unlike most other wood fires, which use a standard shield attached to the flue pipe, the heat output of Pyroclassic Fires are too great and as such requires a separate shield to be attached to a combustible wall surface to make it comply with the clearance standards. A double flue shield can be used if you prefer this aesthetic, however the clearances are significantly greater.

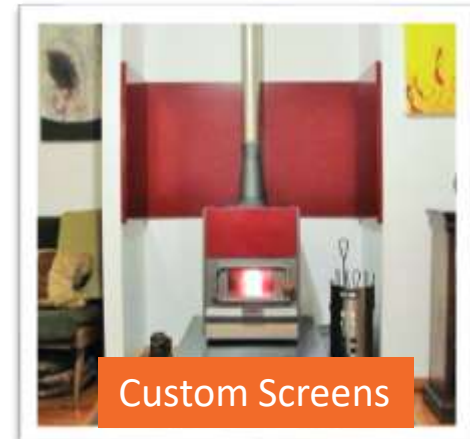
Pyroclassic Fires can be installed without wall screens if you would prefer to use a non-combustible wall board, such as Eterpan, Supalux or Promina board. If doing so, please strictly adhere to manufacturers specifications. Usually this involves ensuring a 25mm air gap is maintained between the wall board and any timber framing.



Standard Screen



Corner Screens



Custom Screens

Why is the door glass small?

Glass is a very poor insulator so less is best!

The first Pyroclassic Fire did not have any glass at all as the scientists who developed it wanted it to be the most efficient wood fire it could be. Over time, consumers expressed desire to see more of the flames so the door glass has been made larger with each version. All Pyroclassic Fires now have the largest glass possible to fit inside the front opening of the chamber without affecting performance.

BIG GLASS = BIG WASTE OF COMBUSTION HEAT!



What is a load limiter and why is it used?

Inside the fire chamber, along the top of the cylinder, is a load limiter. This is designed to restrict the operator from overloading the fire chamber. After a number of years, the load limiter may burn off as the air tubes burn down. Do not worry about replacing the load limiter but the air tubes should be replaced. You can purchase replacement air tubes online at www.pyroclassic.com.au.

NOTE: Load limiters are not fitted in Pyroclassic Mini wood fires.



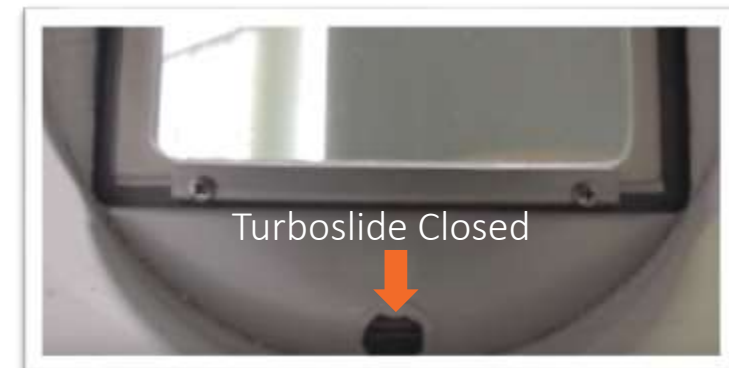
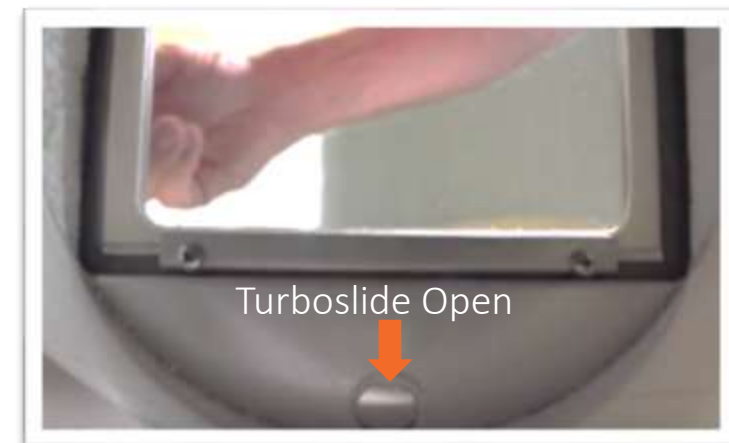
How do I use my Turboslide?

The Turboslide covers a hole behind the decorative panel that allows start-up air to enter quickly to get your fire going. To open the Turboslide, slide to the far left or right. When your fire is well established and the fire chamber is hot*, close the air hole by sliding the Turboslide into the central position. It can take anywhere from 30-60 minutes for the fire chamber to get up to temperature.

Make sure the area around the hole is free of ash or char. Simply push back the build-up with the rake – it doesn't have to be much, just enough to keep the hole clear. Operating the fire in this way will ensure you limit emissions, achieve high thermal efficiency and conserve your wood supply.

NOTE: The Turboslide is only for the initial start-up of fires and to help ignite fresh fuel if required. Not following these instructions can result in damage to the air tubes and other metal components inside the fire chamber.

**If the bottom back corner of the side panel is warmer than skin temperature then the whole cylinder is hot. If it is not warmer than your hand then it is still warming up.*



What is the best way to light my fire?

1. Soak the reusable firelighters in methylated spirits (*we recommend you store these in an airtight jar filled with meths*).
2. Slide the Turboslide to the far right or left position.
3. Place dry kindling and a few small logs lengthways in the front of the fire chamber leaving a clear space in front of the air hole.
4. Place a soaked firelighter just under the kindling at the front of the fire chamber and light it. Close the door.
5. Once the fire is well established and you have a nice bed of hot embers, move the Turboslide to the central position (to cover the air hole).
6. When opening the door to load wood, slide the Turboslide to the far left or right open position and continue from Step 5.

Visit www.pyroclassic.com.au to watch a tutorial on how best to light and maintain a fire in a Pyroclassic.

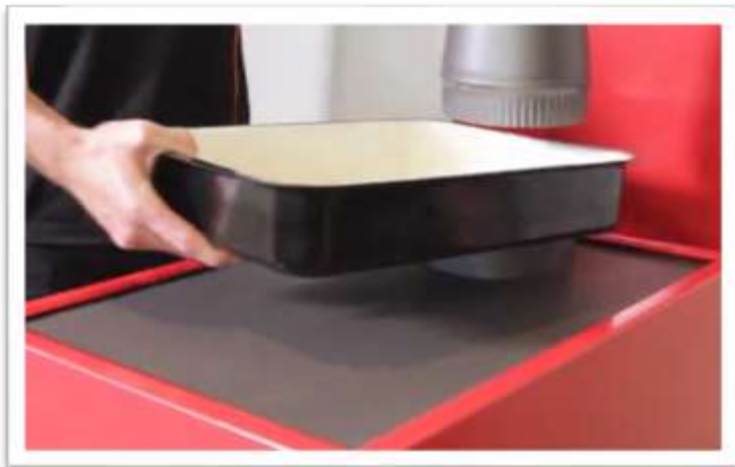


Flue Cleaning

The flue should always be cleaned once a year. This is usually a requirement for many insurance companies. Keeping your Pyroclassic flue pipes clean will help eliminate the risk of a flue fire and can be a great indication of how your wood is performing. If the pipes are clean, then the wood is good. If the pipes are filling with carbon, creosote and tar deposits, then you may need to relook at what fuel you're burning or revisit our Operating Instructions on how to create a cleaner-burning fire.

The easiest way to clean the flue is by placing a deep baking tray or similar under the base of the flue and then sweep the contents of the flue down into the tray. This will stop the debris falling into the top chamber and require vacuuming out. The build-up around the wetback is best removed by hand.

Visit www.pyroclassic.com.au to watch a tutorial.



CLEANING EQUIPMENT

Flue cleaning equipment can be purchased from our online shop - www.pyroclassic.com.au/shop



How do I clean the panels and outer flue?

The powder coated panels on any Pyroclassic Fire can be wiped clean with some light detergent and warm water. You can do this with the panels on the fire or remove them for a more thorough clean. For any light staining, a car polish can be used to rejuvenate the panels. Be careful when you remove the front panel to not tear the insulating gasket which is on the inside of the panel*. You will need to pull the centre of the panel forward slightly to allow space behind when you slide it on and off.

The stainless steel flue pipe can be cleaned using a soft cloth with a small amount of methylated spirit soaked into it. Try to avoid touching the flue pipe with your bare hands as this leaves oil from the skin on the pipe and becomes very hard to remove once the pipes have been heat cycled.

How do I clean the glass?

If good quality fuel is burnt correctly then the glass should stay relatively clean as the air wash that passes down the inside of the door scrubs off any deposits during the burn cycle.

If the glass is becoming dirty, scrunch up two pieces of damp newspaper, dip one in cold fire ashes and rub over the inside of the glass. Use the other piece to rub over the glass, cleaning the dirt off. The best time to do this is in the morning before rekindling the fire as the glass should be cool enough.



Get into the habit of cleaning the glass regularly as this will prevent ash from fusing onto it due to the intense heat in the firebox.

Am I getting a good heat output?



There are a couple of easy checks to measure the approximate output levels. Firstly, hold your hand 10cm off the centre of the top plate when the fire is running. If you can't keep it there for five seconds then the fire is at its peak. If you can hold your hand there for 5 -10 seconds then the fire is performing well in its expected typical output range. If you can hold it there for more than 10 seconds comfortably, load a fresh load of fuel in and begin the burn cycle again. Some users feel hesitant about using too much wood - don't be shy! You won't get the heat if you don't put in enough fuel.

The side panels are another good indicator of when a Pyroclassic is fully heat cycled. If the bottom back corner of the side panel is warmer than skin temperature then the whole cylinder is hot. If it's not warmer than your hand, it is still warming up.

NOTE: Your fire will not hit peak performance for the first few uses until the unit has fully cured and heat tempered.

Why are there cracks in my cylinder?

The fire chamber of every Pyroclassic Fire is cast as one piece. This cylinder goes through expansion and contraction every heat cycle, which results in various levels of cracking. There is no need to be concerned. This is completely normal and is just the cylinder relieving its inert tension and will not affect the performance or operation of the fire.

If you want to fix the cylinder for cosmetic reasons, veneering cement can be mixed to a toothpaste-like consistency and inserted into the cracked areas. This is available from our online shop – www.pyroclassic.com.au/shop.

The story goes that the two original designers each had a Pyro and one touched up his cylinder every year and the other never touched his... 25 years later and both fires were still operating well albeit one was in slightly better looking condition internally than the other!



Typical Pyroclassic cylinder cracking



Veneering cement

Why is smoke coming into my room?

Most commonly, this is an indication your flue is blocked. Clear the obstruction and investigate the cause. This is most likely caused through burning wet or gummy wood. Check the water content of the wood with a moisture meter and make sure you are only burning well-seasoned wood. See '*Wood Fuel*' in this booklet for more information on the best wood to use.

Pyroclassic Fires are different from other wood fires so ensure you use a reliable chimney sweep, ideally someone who has swept a Pyroclassic before. If you would rather clean the flue yourself, refer to our website for a video on how to clean the flue.

If the flue is not blocked, it could be one of the following reasons:

- Negative pressure in the room - this can be caused by a household electric exhaust fan or severe pressure difference in a windstorm. Open a window to equalise the pressure.
- Severe down draft due to surrounding structures, hills, trees or roof layout.

My fire is slow to start up. What can I do?

- Open the Turboslide by moving it to either the far left or right.
- Check the start-up hole is free of ash and char and push back any build-up with the rake. The start-up air supply hole allows air to enter the fire chamber, if the hole is clogged with ash and char, it will not operate correctly.
- You could be inserting large or wet logs on not enough hot coals. Make sure you use dry kindling to start the fire quickly and do not use wet fuel.
- Check for air leakage around the cooktop, flue collar and in the flue pipe joints. Air bypassing the fire chamber reduces draft. Repair air leaks.
- Insufficient draft – Review your chimney construction and investigate air pressure levels in the home.
- Warm, humid conditions outside or an inversion layer. Wait until the flue pipe heats-up.

How to fix rattling side panels

Because the coloured panels are interchangeable and not permanently fixed to the fire, there is a small chance that occasionally a panel may rattle slightly in its channel.

This can be easily remedied by removing the panel and putting a slight curve (only 1 - 2mm) across it by flexing it from top to bottom. The easiest way to do this is to lie the panel half on a flat surface and apply weight to the bottom section on the surface and also to the top section, which is hanging off the side. This very small relief in the panel will mean it sits tighter against both sides of the channel and eliminates the rattle.

NOTE: You should never bend the panel far enough to crease it or cause any visible curve.



Pyroclassic Fires Warranty

The ceramic cylinder in the Pyroclassic IV is guaranteed for 15 years against defective material or workmanship, providing the fire is used according to the manufacturer's operating instructions.

NOTE: Cracks and blisters are not considered a failure of the ceramic cylinder.

All other parts are warranted for **12 months** from the date of purchase. This warranty does not cover damage or failure caused by tampering, carelessness, abuse or misuse, cosmetic damage or general wear and tear - this includes damaged door knobs and broken door glass. All cases will be considered at the manufacturers discretion.

NOTE: The warranty only applies to the original owner registered on the warranty card and cannot be transferred without express permission by the manufacturer.

Pyroclassic Fires Return Policy

Pyroclassic Fires is committed to customer satisfaction. If you are unhappy with your purchase for any reason, return it to Pivot Stove & Heating, Geelong **within 30 days** in the condition and packaging you received it and we will happily refund the money.

NOTE: A 20% repackaging and restocking fee applies.



www.pyroclassic.com.au

