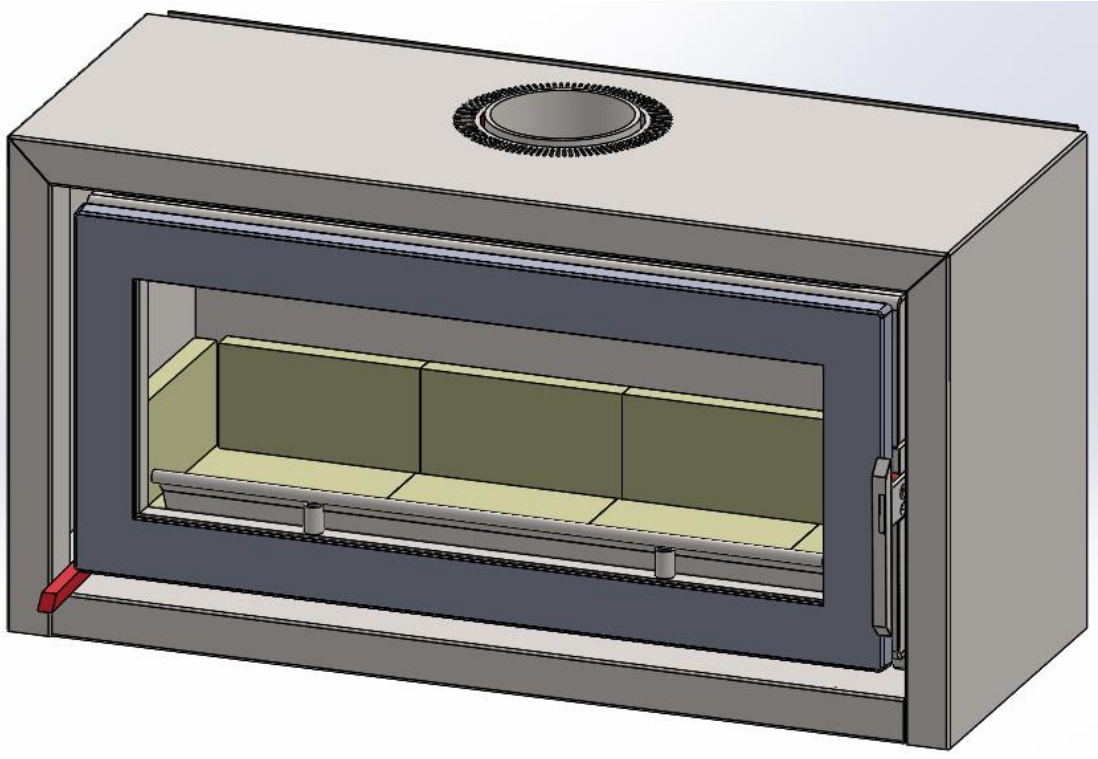
KEMLAN
ESTABLISHED 1969

Specialists in fireplace design and manufacture

CELESTIAL 900 FREESTANDING

INSTALLATION & OPERATING INSTRUCTIONS



IMPORTANT:

INSTALLER, PLEASE LEAVE THESE INSTRUCTIONS WITH THE UNIT ON COMPLETION.

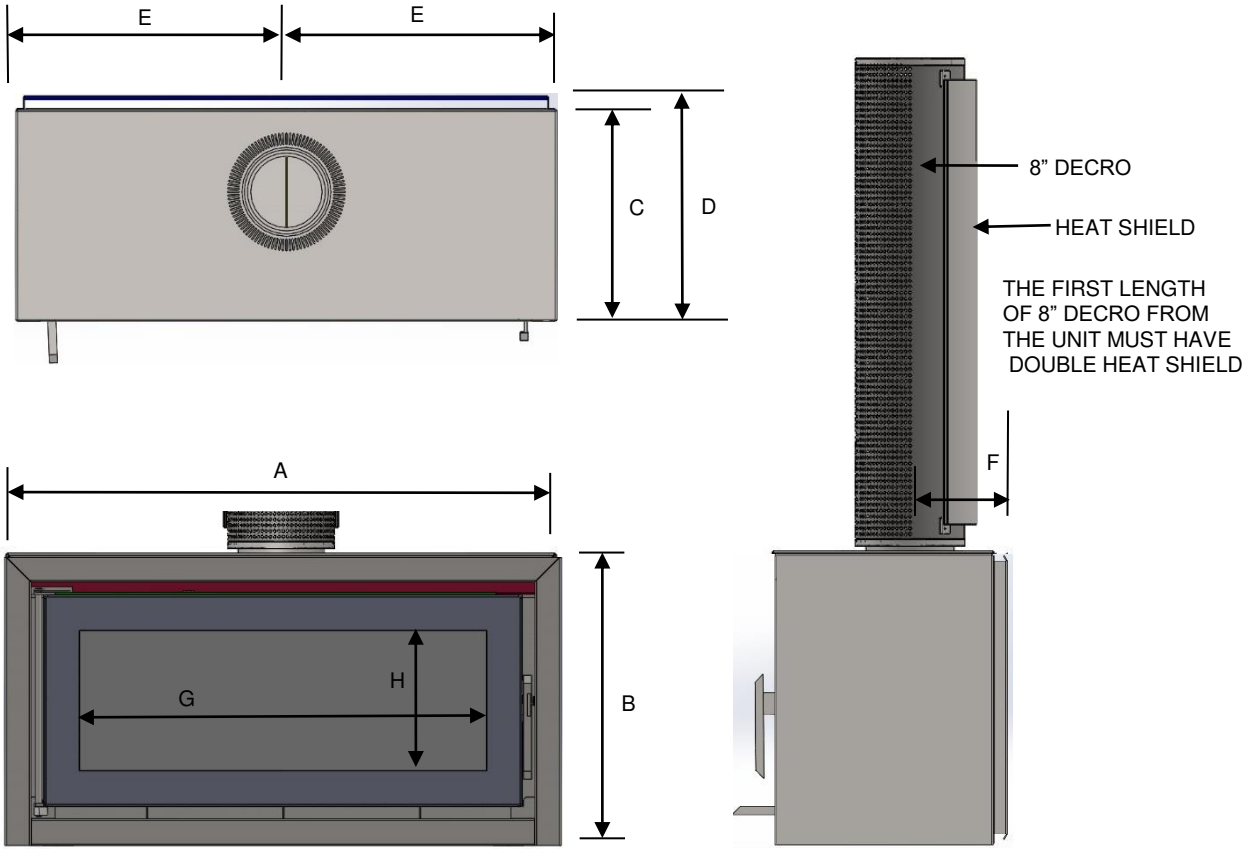
10 YEAR FIREBOX WARRANTY

The firebox is covered by a 10 year warranty.
Other parts are covered by a one year limited warranty.

Head Office – 13 French Avenue, Brendale, Queensland 4500
Telephone – PH: (07) 3490 5500
Facsimile – FAX: (07) 3490 5520
Website: - www.jetmaster.com.au
Business hours: - Monday to Thursday 7:30am-4:00pm. Friday 7:30am-2:00pm
Email: - sales@jetmaster.com.au

DIMENSIONS

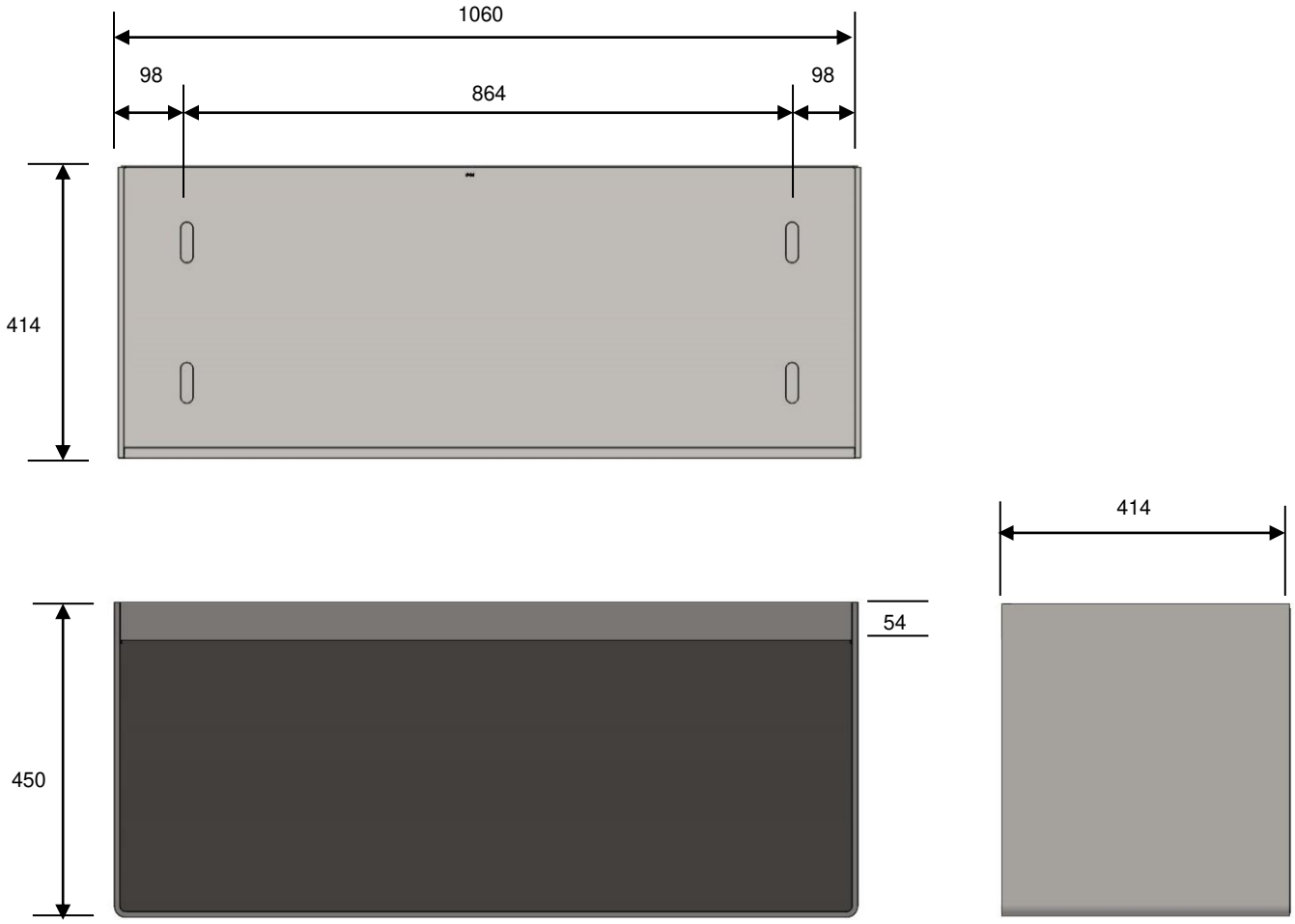
CELESTIAL 900 FREESTANDING WITH METAL CASING



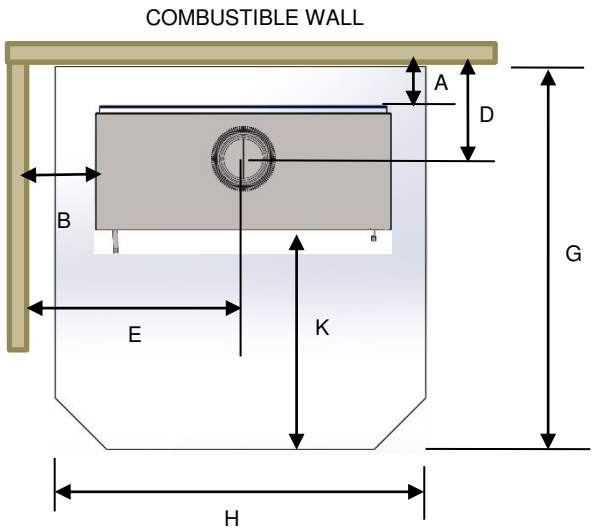
	A	B	C	D	E	F	G	H
MEASUREMENTS	1060	552	414	441	530	188	776	268

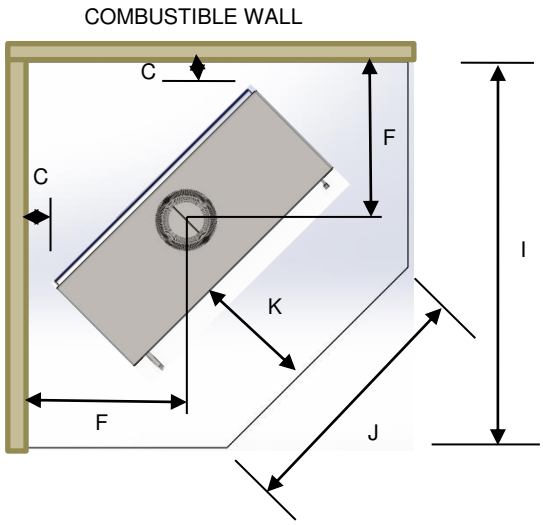
DIMENSIONS

CELESTIAL 900 FREESTANDING MERIDIAN BASE



MINIMUM CLEARANCES FOR THE CELESTIAL 900 FREESTANDING SOLID FUEL APPLIANCE INSTALLED WITH DEFAULT FLUE KIT





MINIMUM CLEARANCES:

	A	B	C	D	E	F	G	H	I	J	K
MEASUREMENT	100	350	45**	288	880	540	1266	1180	1553	910	725*

*As per Clause 3.3.2 of AS/NZS 2918:2001 for floor protector construction requirements. This measurement only applies when unit is 200mm above floor. (refer hearth measurement drawing if unit is higher than 200mm from floor.)

** This is the minimum allowable distance to any combustible material behind the unit.

Glass viewing area- 776mm wide x 268mm high
Flue pipe- ø150mm – top exit
Shipping weight- 185 kg

All dimensions shown are approximate. Check all dimensions accurately before installation. Before installing refer to the installation instructions.

In line with our policy of continuous improvement, we reserve the right to alter specifications without notice.

CONSTRUCTION:

6 mm heavy duty steel firebox – fully welded
25mm thick firebrick lined floor, back and sides
19mm ceramic baffle plates

NOTE:

The floor protector consists of a 18mm thick Bellis Board or similar material which has a thermal resistance of 0.1m² k/W, per 9mm thick sheet

PERFORMANCE:

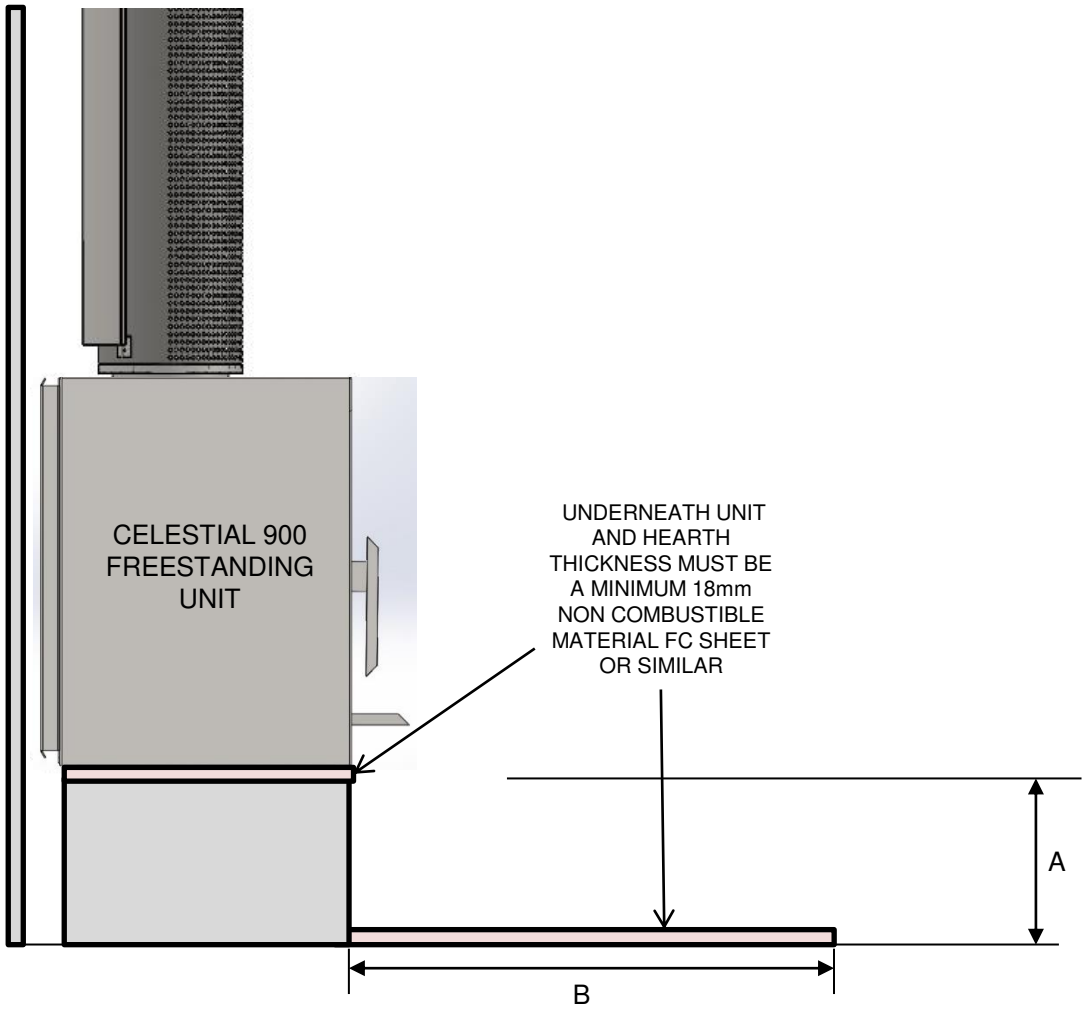
Heating capacity – 220-320m2 (23-33 squares)
Average peak heat output – 12.7kW
Average Particulate emission - 0.6g/kg
Average efficiency – 60%

Heating capacity of this appliance is given as a guide only and may vary depending on the climate zone and type of dwelling (floor plan and degree of insulation). Consult your local authorised distributor to determine realistic expectations for your home.

Heat output and fuel consumption of this appliance is dependent on the moisture content, size, loading geometry and the type of hardwood used.

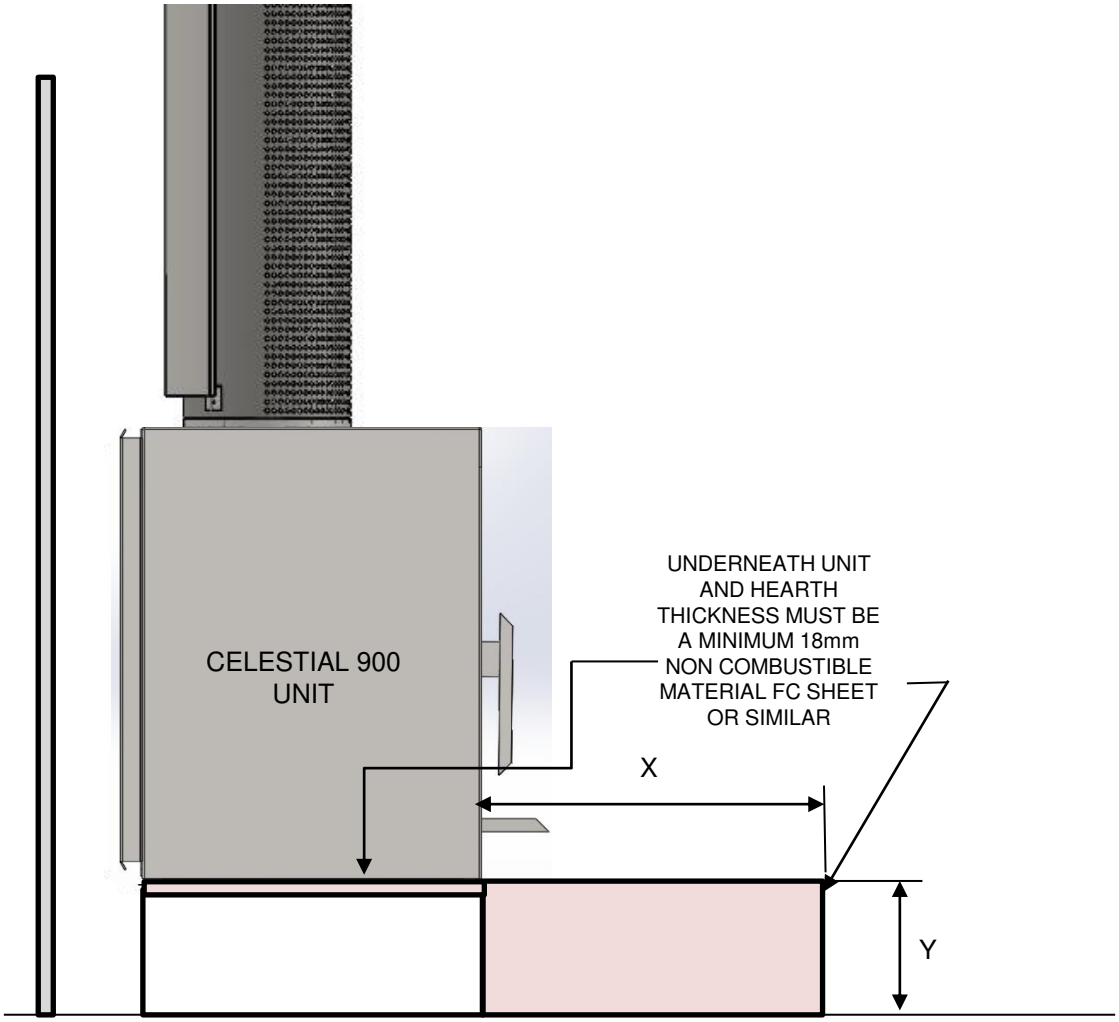
The appliance complies to the safety standards AS/NZS 2918. When in use some parts may become hot. A suitable fireguard is recommended where the very young, elderly or infirm are concerned.

HEARTH MEASUREMENT



A.	UNIT HEIGHT ABOVE FLOOR	200	300	400	500	600	700
B.	HEARTH DIMENSION FORWARD OF UNIT	725	715	665	594	492	335

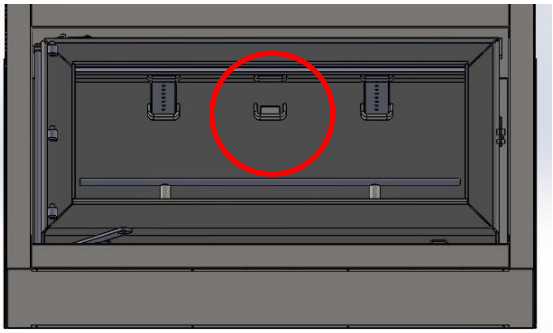
HEARTH REQUIREMENTS FOR INSTALLATION ONTO A RAISED HEARTH



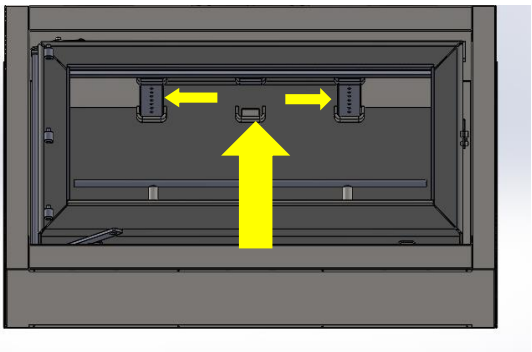
X.	MIN. DEPTH MEASUREMENT (mm)	300
Y.	MIN. HEIGHT INCREASE (mm)	200*

* NOTE: IF Y IS LESS THAN 200mm THEN REFER TO HEARTH MEASUREMENT ON PREVIOUS PAGE

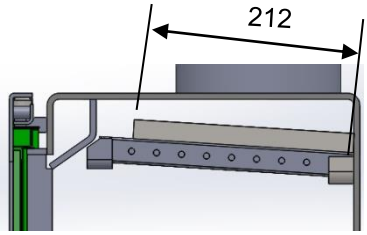
BAFFLE PLATE INSTALLATION



1. REMOVE MIDDLE AIR TUBE BY PUSHING UP AND REMOVING FROM FRONT AND REAR BRACKETS.

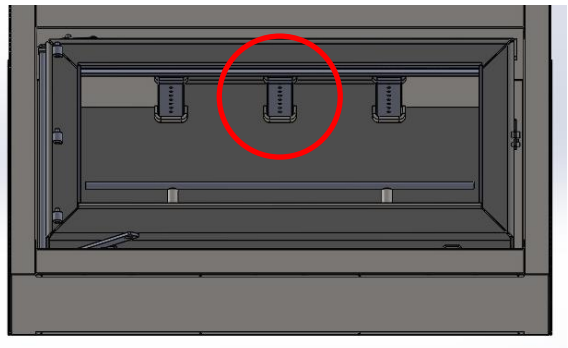


2. PLACE ALL 4 BAFFLE PLATES ABOVE AIR TUBES BOTH SIDES CLOSEST TO THE FIRE BOX WALL AS SHOWN (2 LEFT AND 2 RIGHT)

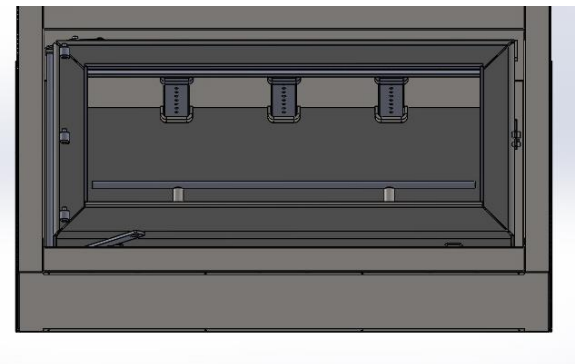


3. PLACE BAFFLE PLATES AS FAR BACK AS POSSIBLE, 212 MM FROM FRONT TO BACK.

4. BAFFLE PLATE SIDE OF 222 MM SHOULD EXTEND FROM SIDE TO SIDE,

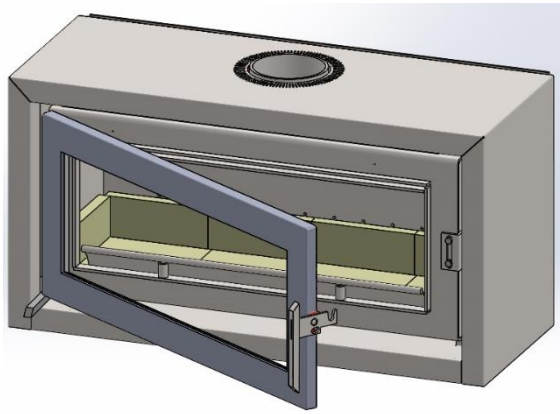


5. RE- PLACE MIDDLE AIR TUBE BACK INTO POSITION
(NB. MAKE SURE OPEN END OF AIR TUBE IS PLACED INTO REAR OPENING. CLOSED END TOWARDS DOOR. FAILURE TO INSTALL AIR TUBES CORRECTLY WILL VOID WARRANTY.)

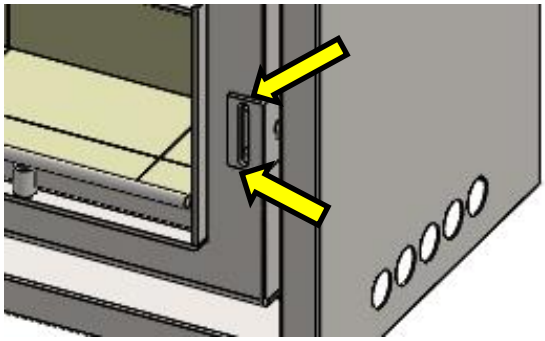


6. SLIDE THE BAFFLE PLATES ATOP THE OTHER 2 BAFFLE PLATES INTO THE MIDDLE POSITION AS SHOWN. LEAVE GAP OF 1-2 MM IN BETWEEN PLATES. THE GAPS SHOULD BE ROUGHLY IN THE MIDDLE OF THE AIR TUBES. UNIT IS NOW READY FOR USE.

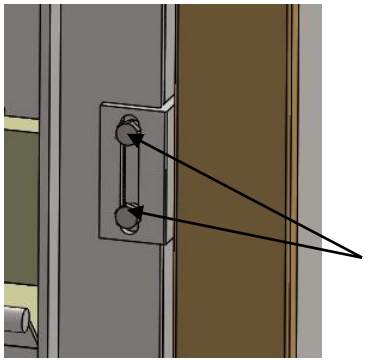
CELESTIAL 900 DOOR ADJUSTMENT INFORMATION



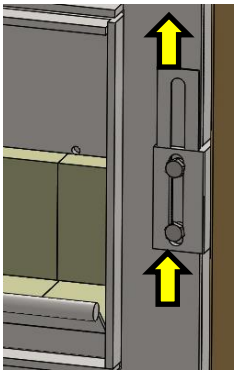
1. OPEN THE DOOR AS FAR AS REQUIRED, AND THE ADJUSTMENT ANGLE IS ACCESSIBLE.



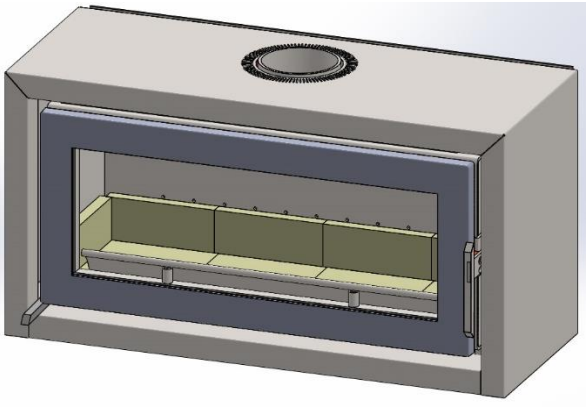
2. MARK THE POSITION OF THE ADJUSTMENT ANGLE ON THE FIREBOX. IT IS CRITICAL TO PUT THE ADJUSTMENT ANGLE AT THE SAME SPOT. SO THAT THE DOOR WILL LOCK PROPERLY.



3. LOOSEN THE 2 BOLTS AS REQUIRED. DO NOT UNSCREW THE BOLTS ALL THE WAY OUT.

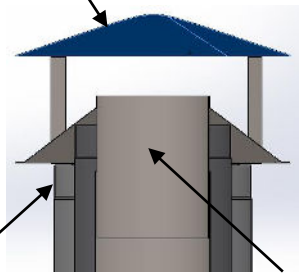


4. PUSH THE PACKER FROM THE BOTTOM EDGE OF THE ADJUSTMENT ANGLE UNTIL FULLY REMOVED. ONLY TAKE OUT WHAT IS NECESSARY. RE-POSITION THE ADJUSTMENT ANGLE AT THE MARKERS AND TIGHTEN.
   NOTE: UP TO 4 PACKERS CAN BE REMOVED IF NECESSARY.

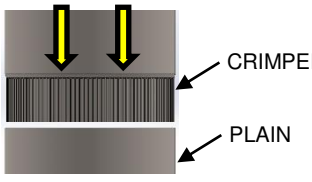


5. CLOSE THE DOOR AND CHECK IF THE LATCH LOCKS PROPERLY, THE ADJUSTMENT IS COMPLETE IF NO ADJUSTMENT IS NEEDED.

CELESTIAL 900 FREESTANDING INFORMATION FOR FLAT CEILING

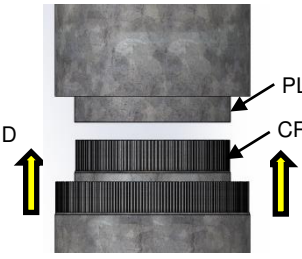


DETAIL A



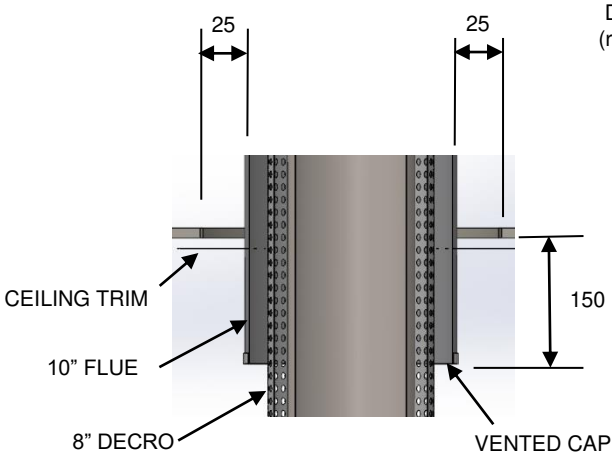
ALL 6" ASSEMBLED FLUES MUST HAVE THE CRIMPS POINTING DOWNWARDS

DETAIL D

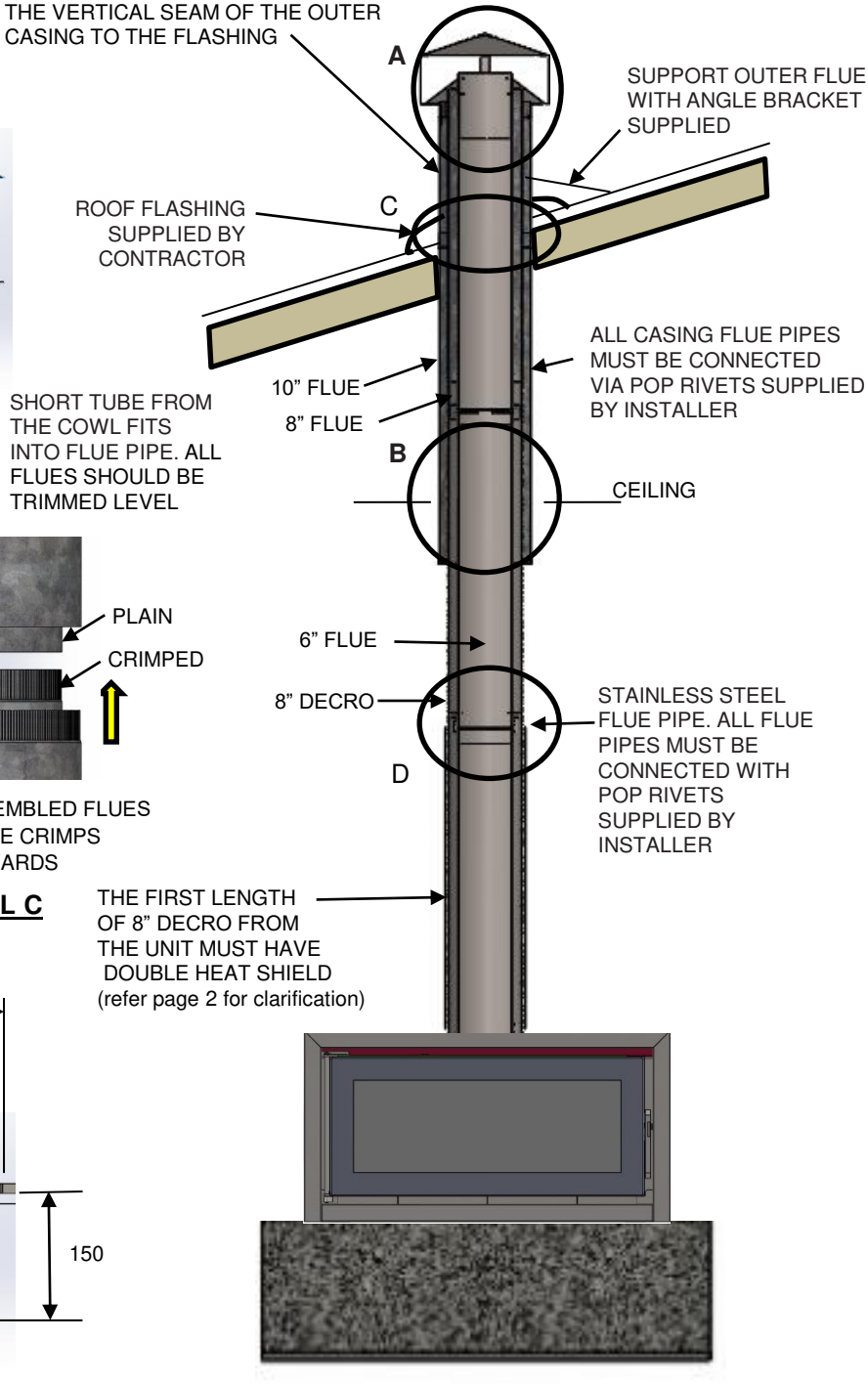


ALL 8"-10" ASSEMBLED FLUES MUST HAVE THE CRIMPS POINTING UPWARDS

DETAIL C

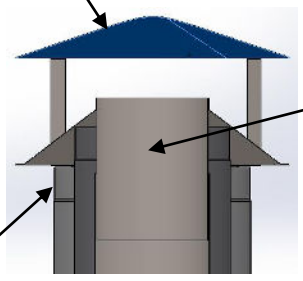


DETAIL B

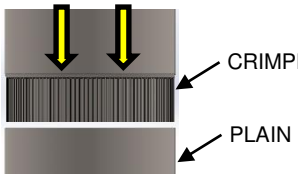


FRONT VIEW

CELESTIAL 900 FREESTANDING INFORMATION FOR RAKED CEILING

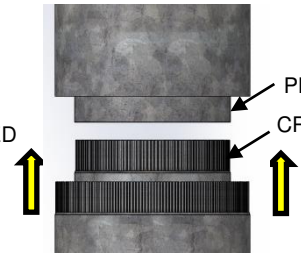


DETAIL A



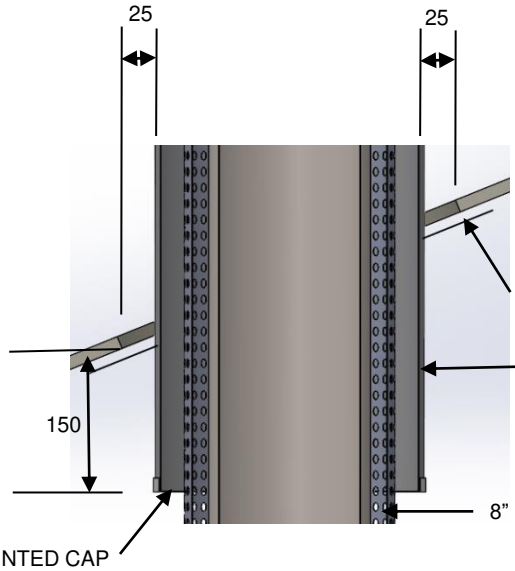
ALL 6" ASSEMBLED FLUES MUST HAVE THE CRIMPS POINTING DOWNWARDS

DETAIL D

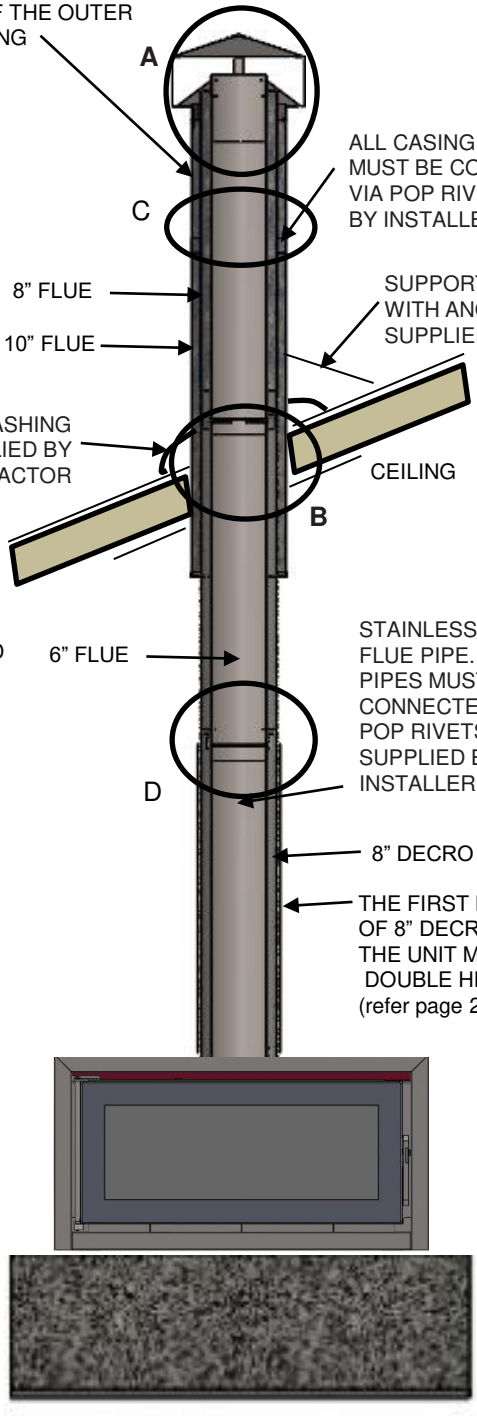


ALL 8"-10" ASSEMBLED FLUES MUST HAVE THE CRIMPS POINTING UPWARDS

DETAIL C



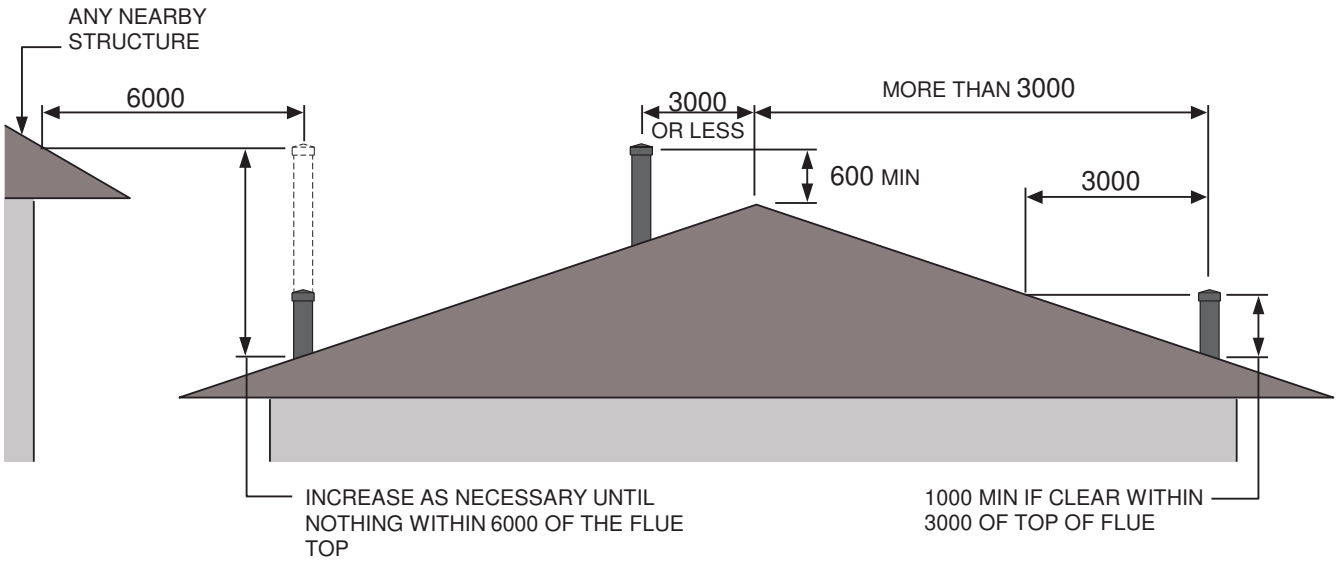
DETAIL B

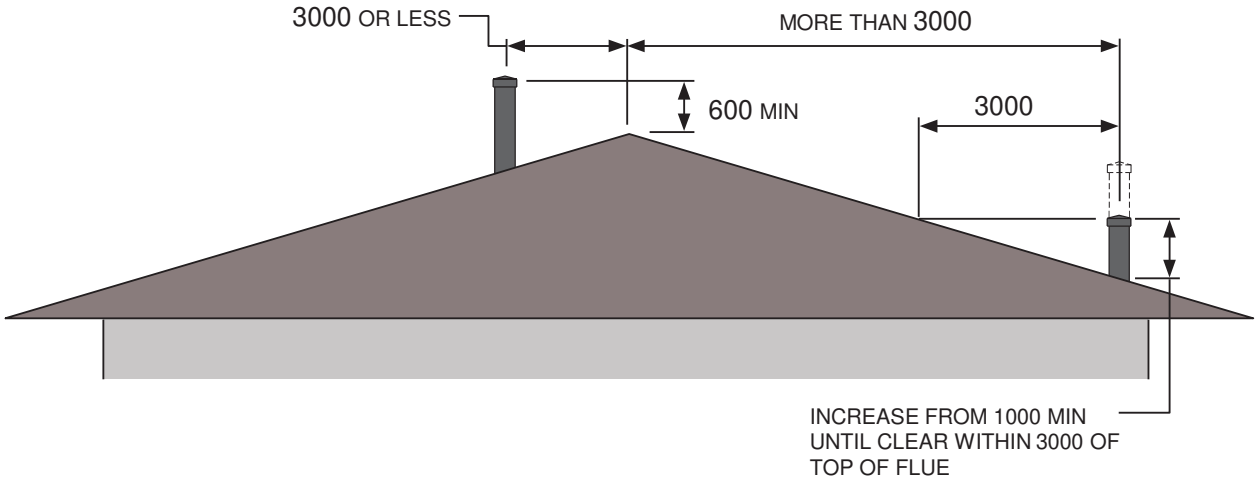


FRONT VIEW

INSTALLATION INSTRUCTIONS

MINIMUM HEIGHT OF FLUE SYSTEM EXIT
INSTALLATION TO COMPLY WITH AS/NZS 2918





DIMENSIONS IN MILLIMETRES

AUSTRALIAN SOLID FUEL TESTING
ASFT

Certificate of Compliance

for

SOLID FUEL HEATERS

This is to certify that the appliance stated on this certificate has been tested for Heat Output, Thermal Efficiency and Particulate Emissions in accordance with the Australian / New Zealand Standard(s) detailed below

Manufacturer	**Kemlan Industries**
Make	**Kemlan**
Model	**Celestial 900**
Type	**Free-Standing/Insert/Inbuilt**
Category	**Slow Combustion Wood Heater**
Fuel Type	**Hardwood**
Test Report No's:	**ASFT19022-1, ASFT19081-1 ASFT19026-1, ASFT19083-1**
Maximum Avg Heat Output	**10.4kW**
Overall Avg Efficiency	**65%**
Particulate Emissions Factor	**1.4g/kg**
National Standards	**AS/NZS 4012 (2014) AS/NZS 4013 (2014) AS/NZS 2918 (2018)**

ASFT hereby grants to:

Kemlan Industries

of

13 French Avenue, Brendale QLD, Australia, 4500

Certificate No.: **ASFT22C024**
Issue Date: **10 May 2022**
Certified Date: **13 July 2017**
Expiry Date: **08 August 2024**

Steve Marland

Managing Director of ASFT

ASFT performs compliance testing of Solid Fuel Appliances to the relevant Australian/New Zealand standards. This certification is subject to the conditions set forth in the characteristics above and is not to be construed as any recommendation, assurance or guarantee by ASFT of the product acceptance by Authorities having jurisdiction.

Australian Solid Fuel Testing, 3 Garden Street, Morwell, Victoria, Australia 3840
ABN 46 610 154 768

KEMLAN INDUSTRIES

Operating Instructions

Congratulations on the purchase of your Australian made Kemlan slow combustion wood fireplace.

We hope this serves you well, not just as a stunning feature; but as a functional tool for heating your home and keeping you and your family warm however cold the winters may get, because this is what Kemlan specialises in and has perfected, making fires in Brisbane QLD since 1969, 'Australian made for Australian conditions'.

Welcome to the Kemlan family.

I would like to share with you the correct way to operate your Kemlan wood fire giving best results for both heating and useability.

Let's get started:

The First Burns –

Unfortunately, we have no control over how the fire is loaded nor do we have any control over what quality of fuel / timber is used, therefore we can only give recommendations, and this will be the difference in heat output and length of burn.

Hard wood should always be used as the main fuel source in all Kemlan wood heaters at a moisture level of between 12% - 20% (always have a moisture meter).

If the timber is too dry it will burn faster, if the timber is too wet it will struggle to burn at all and give very little heat.

The first few burns in a wood fire are commonly referred to as 'curing burns', this is when you are getting heat into the appliances steel and paint for the first time.

What we are trying to achieve here is 3-fold:

The **first** goal it to get heat into the white ceramic baffles and the steel flue system, getting these 2 things hot will create the 'draw' of the fireplace this is the process in which the smoke is drawn out of the fireplace chamber through the flue system.

The **second** goal is to lay a bed of ash in the base of the fire, ash in the bottom of the fire is essential to the performance of the fireplace, the optimal thickness of ash is 2-3 Inches (25mm – 75mm).

Having this bed of ash will assist the fuel to light easier creating an air layer under the timber, it will also assist in a longer hotter burn as the ash holds a large amount of the heat while the timber above is burning. So DO NOT clean your ash out until you have to, you should never see the firebricks in the base of your fire.

The **third** goal of the initial burns is to cure the paint on the fireplace casing, Kemlan fires are painted with a high temperature paint. When first applied at our factory, the paint is very soft, we place all finished fireplaces under heat lamps to start the 'curing' process but because of the time it takes and

the temperature the casing needs to stay at to complete this process we need YOU to finish this cure in your home by lighting your new fire! So, let's do it!.....

Building your fire –

Whether you have purchased a small, medium or large chamber fireplace the set-up is the same.

Kemlan introduce more primary air into the chamber of the fireplace than most other brands on the market, this makes it very easy to light the fire from a cold start, it also makes it easy for you the user of the fireplace to load the paper or firelighters, kindling (small pieces of soft wood) and hard wood into the chamber straight away.

Your goal should be to fill the fireplace chamber front to back, sided to side to make sure heat is evenly distributed throughout the entire firebox.

We don't want to have to keep tending to the fireplace slowly adding pieces of timber and constantly opening the door, one full load of timber is far better.

Scan the QR code below to access the 'How to stack and light your Kemlan wood fire' video.

Please take some time to watch to see if your process is the same.

Now your Kemlan fire is up and running make sure to keep the primary air slide fully open, this will ensure maximum oxygen is getting to the fuel and this will create quicker heat into the fireplace box, baffle, flue and of course your home.

The air slide can move from extreme left (fully open) to extreme right (fully closed).

Think of this slide like an accelerator and brake on a car. Fully open would be putting your foot down on your car's accelerator, fully closed is like putting the breaks on in the car.

When we want energy into the room (KW) we want the slide open, as the room gets to the desired temperature the air slide can be moved towards the right-hand side reducing the air to the chamber slowing the energy output and fuel consumption.

The air slide should only be moved half to ¾ of the way across while you can still tend to the fire, closing it completely or starving the fire should only be done when you cannot tend to the fire for long periods of time (e.g. going to bed) when your only goal is for length of burn.

Remember no matter whether it is a curing burn or an everyday use, heat is key, never light a small fire! A small fire in a large, chambered firebox will not produce any heat in the components of the fireplace or in your room. Choose the fire that best suits your living and heating requirements.

Reloading your Kemlan fire –

When it is time to add timber to your fireplace firstly make sure the underside of your white baffles is actually white, if they are still black this will mean the hardwood has not fully caught alight. If this is the case wait, you will notice as the fire heats up and your seasoned hardwood is fully lit the baffle plates will return to there original white condition, this means the fire drawing correctly through the flue system and burning cleanly with the secondary air in full swing.

You can now open the air slide fully, crack the door slightly allowing the air pressure to equal then carefully fully open the door.

Have the timber you are going to load in the chamber ready to immediately reload, be prepared, don't open the door and then go looking for the optimal pieces of timber, the longer you wait the colder the chamber will get and the higher the chance of smoke coming back into the room.

Overnight burns –

All medium and large size Kemlan fireplaces have what is called an 'overnight burn' but what does this mean??

Like we have touched on above, the air slide should only be shut down fully when you want extended length of burn, as soon as you starve the firebox of air the fire will burn dirtier and heat output will be greatly reduced, in some instances the glass will blacken due to the lack of air movement inside the chamber. The black creosote will burn off the glass when the fires air control is back up to high with a new load of timber.

Generally, a Kemlan medium to large chamber will burn between 8 – 12 hours depending on the quality of fuel/timber and how full you stack the chamber. For maximum burn time you would fill the chamber up to 50mm below the secondary air tubes underneath the white baffle plate. The larger the pieces of timber the better!

After the 8-12 hours you should still have glowing embers in the base of the fire, a small amount of kindling and medium size pieces of hardwood can then be re-loaded making sure the air control has been moved back to 'full left' introducing maximum primary air again.

If you follow these simple steps, you will find your Kemlan fireplace is one of the best investments you have made to your home.

From everyone in Kemlan we thank you for your business and wish you a lifetime of warmth and enjoyment.

IMPORTANT:

UNDER NO CIRCUMSTANCES SHOULD ANY SOLVENTS SUCH AS METHYLATED SPIRITS, PETROL, MINERAL TURPENTINE ETC OR DETERGENTS, BE ALLOWED TO COME IN CONTACT WITH THE PAINTED SURFACE OF THE HEATER AS DAMAGE TO THE FINISH WILL RESULT. IF AN ACCIDENT DOES OCCUR, SPRAY CAN PAINT IS AVAILABLE FROM YOUR NEAREST KEMLAN DEALER.

WARRANTY

1. Kemlan wood heaters carry a warranty on the 6mm firebox for a period of ten (10) years.

2. This warranty also covers other components of the heater for a period of one (1) year. These components include the baffle plate, handle assembly, secondary air tubes and fan.

3. Kemlan's warranty covers the wood heaters against defects in materials and manufacture.

4. THIS WARRANTY DOES NOT COVER –

4.1 Failure to comply with manufacturer's operation instructions.

4.2 Normal wear and tear or damage caused by incorrect installation.

4.3 Any form of rust and/or corrosion to the painted finish of the heater.

4.4 Damage to the glass in the door, if the damage is caused by impact or misuse.

4.5 The cost of collection and delivery of the wood heater and/or parts.

4.6 Damage caused by water ingress.

4.7 Cost of removal of defective heater or re-installation of replacement heater.

4.8 Failure to use fireplace components supplied by Kemlan Industries Pty Ltd.

4.9 Cost of inspection for damaged heater.

5. CLAIMS –

5.1 (I) Kemlan will provide a full replacement of the heater in the first five years after installation.

(ii) Replacement in the subsequent five years (i.e. sixth to tenth year after installation will be on the following basis.
Owner will pay fifty percent of the current retail price, if the claim is made in the sixth year – tenth year after purchase.

5.2 Replacement of heater subject to all conditions in section four of warranty.

5.3 Should any defects occur, contact the Kemlan distributor from whom you purchased the heater.

5.4 Under this warranty the defective parts will be repaired or replaced, free of charge.

6. The fireplace installation must comply with the relevant local statutes, ordinances, regulations and by-laws.

7. THIS WARRANTY IS VOID IF:

7.1 The appliance has been over-fired or operated in atmospheres contaminated by chlorine, fluorine or other damaging chemicals. Over-firing can be identified by, but not limited to, warped plated or tubes, rust coloured cast iron, bubbling, cracking and discolouration of steel or enamel finishes.

PLEASE COMPLETE AND RETAIN THIS SECTION FOR YOUR RECORDS

Purchased from: .....
Address: .....
Date of Purchase: .....