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## (This report is endorsed)

Test Report Number:	0486a.	
<b>Item Under Test (IUT):</b> Make: Model: Type:	Jayline. UL200. Freestanding.	
Client Details: Attention:	Mr. Ross Sneddon.	

Company Name: Company Address: Phone: Manufacturer: Mr. Ross Sneddon. Retail Links Ltd. 7 Forrests Road, Annesbrook, Nelson. (03) 547 0770. As above.

## Standard Specification:

AS/NZS 4012:2014 + A1 AS/NZS 4013:2014 - Method for determination of power output and efficiency

- Method for determination of flue gas emission

## **Client Instructions:**

The client requested the item be tested to the above standard(s).

## Report Record:

Report Preformat Worksheet Spreadsheet Test Runs Record Sheet CD-00263 revision 2.0. CD-00195 revision 1.3 CD-10229 revision 1.1

## **Technical Notes:**

This report replaces the previous 0486 dated 10/03/2018 and contains a minor non-test related correction.

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Checked by Mr. P. Sparrow Authorized Signatory

Tested by Mr. P. Chen Compliance Engineer

Issue Date 11/05/2018

Unit 1/25 Highbrook Drive, East Tamaki, Auckland. PO Box 204-252 Highbrook, Manukau Auckland, 2161. Telephone +64 9 271 1616, Fax +64 9 271 1615.





## Section 1: Description

## **Overall external dimensions:**

The heater had the following overall external dimensions.			
Height	1078 mm	<ul> <li>measured to the highest point of the heater.</li> </ul>	
Width	475 mm	<ul> <li>measured at the widest points of the heater</li> </ul>	
Depth	536 mm	- measured from the rear most heat shield panel to the door glass	

Refer to design drawings for detailed dimensions.

## Firebox internal dimensions:

The fire box had the following basic internal dimensions; Upper Chamber Height 435 mm - measured between metal floor and rear ceiling baffle. Width 410 mm - measured between the interior metal side walls. Depth 355 mm - measured between the rear metal interior wall and door aperture. Lower Chamber Height 242 mm - measured between metal floor and chamber ceiling. Width 410 mm - measured between the interior metal side walls. Depth 355 mm - measured between the rear metal interior wall and door aperture.

Refer to design drawings for detailed dimensions.

#### Removable grilles and cook tops:

The heater did not have any removable grille or cook tops.

#### Fuel loading doors:

The door consisted of a one piece steel frame with a rectangular glass window. The lower chamber had a separate door.

Overall dimensions of the main door were: Height 921 mm Width: 480 mm

The lowest edge of the door glass was located 140 mm above the floor. The viewing glass measured 906 high and 465 wide.

Refer to design drawings for detailed dimensions.

## Refractory materials and gaskets:

The upper combustion chamber contained total of four vermiculite bricks covering the sides, rear and ceiling. The lower combustion chamber contained a total of four vermiculite bricks; covering sides, rear and floor.

The door frame was fitted with fire resistant rope to seal the gap between the door and the firebox aperture.

Refer to design drawings for material dimensions and specifications.

## Water heating device:

The heater was not fitted with a water heating device.

## Air circulation Fan:

This heater was not fitted with an air circulation fan.

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## Catalytic combustor:

This heater was not fitted with a catalytic combustor.

## Bypass damper:

The heater was fitted with a bypass damper.

Refer to design drawings for detailed dimensions.

## Section 2: Air inlets and outlet

## Primary air:

The un-controlled primary air supply entered the firebox at the top of the upper and lower chamber doors via air inlets located just under the appliance's top panel.

Refer to design drawings for detailed dimensions.

## Flue gas outlet:

The flue gas outlet spigot was positioned centrally when viewed from the front of the firebox and the spigot's axial centre was 218 mm from the rear heat shield of the firebox.

The flue spigot had an internal diameter of 149 mm.

Refer to design drawings for detailed dimensions.

## Cross sectional area:

The maximum primary air entering the firebox (High) was calculated to be 2356 mm<sup>2</sup> The flue spigot outlet aperture was calculated to be 17436.62mm<sup>2</sup>

Refer to design drawings for detailed dimensions.





## Section 3: Procedure

Testing was carried out in accordance with AS/NZS 4012 and AS/NZS 4013 as per the client's instructions.

During testing the air controls were set as required to achieve the appropriate burn rates. The ember bed and fuel loads were calculated in accordance with AS/NZS 4012:2014.

#### Section 4: Results

During these tests conducted in accordance with the standard AS/NZS 4012:2014 the efficiency was calculated as an average overall efficiency.

The Fuel consumption rate for any given burn cycle was calculated by dividing the oven-dry mass of the test fuel by burn cycle time and expressed at a rate of kilograms per hour kg/h (oven-dry).

The heaters particulate emission factor was calculated by averaging the particulate emission factors for all three high, medium and low burn rates.

#### Fuel data:

Type of Fuel used: Species of Firewood: Fueling Rate: Usable volume of firebox: Longest dimension of firebox: Fuel Loading Orientation: Firewood test load mass: Theoretical number of fuel load: Actual number of pieces per load: Firewood piece length range in mm:

Embers bed: Average Moisture Content: Average Calorific Value: Average Ash content:

Average Burn Time:

**Efficiency:** 74.7 %.

**Fuel consumption rate:** 2.91 kg/h.

Emission factor: 0.36 g/kg.

**Emission factor** (*calculated as per ECAN-AQL2*): 23.94 mg/MJ.

Soft Wood. Pinus Radiata. As per AS/NZS 4012:2014 48.7 L. 356 mm (Side to Side). 356 mm (Side to Side). 4.61 kg. 5.48 pcs. 5 pcs. 249 mm minimum. 284 mm maximum . 1.20 kg (Allowed range 1.11 –1.20 kg). 17.67 %. 20.09 MJ/kg. 0.15 %.

78.7 minutes.





#### **Compliance with standard**

#### New Zealand:

The AS/NZS 4012:2014 standard required that the appliance shall have an overall average efficiency of not less than 65%, the overall efficiency result of 74.7% for the tested appliance complied with the AS/NZS 4012:2014 standard

The AS/NZS 4013:2014 standard required that the particulate emission factor be not greater than 1.5 g/kg for any appliance, the emission factor result of 0.36 g/kg for the tested appliance complied with the AS/NZS 4013:2014 standard.

## **Conditioning Burn Results:**

In accordance with the AS/NZS 4012:2014 the heater under test was subjected to the required post conditioning and the post burn air flow test flow rates, in cubic metres per minute (corrected to 20°C and 101.3 kPa).

Post Conditioning Air flow	0.84 m <sup>3</sup> / min
Post Burn Air Flow	0.86 m <sup>3</sup> / min





## Raw data:

CALORIMETER TEST DATA SHEET	Records			
Reference file	0486			
Test date	16/11/2017			
Start Time	11:54	13:10	14:24	15:40
Heater model		UL	200	
Burn setting, (High / Medium / Low)		Single	Setting	
Burn setting, (Aperture Dimension(s))		Single	Setting	
Test run number	Pre	1	2	3
CV of fuel, MJ/kg DAF	20.09	20.09	20.09	20.09
Weight of Wood charge, kg	4.6	4.6	4.6	4.66
Moisture of Wood, % Sample Label	18	18	18	17
Ash content of Wood, % dry	0.15	0.15	0.15	0.15
Weight of Wood (Dry mass) kg	3.772	3.772	3.772	3.8678
Main filter label	TA	1A	2A	3A
Backup filter label	ТВ	1B	2B	3B
Main filter Start, g	0.08649	0.08685	0.08734	0.08774
Backup filter Start, g	0.08649	0.08555	0.08609	0.08639
Main filter Stop, g	0.08916	0.08970	0.08998	0.08926
Backup filter Stop, g	0.08667	0.08576	0.08617	0.08655
Dry gas meter START, cu.m.	2327.079	2327.829	2328.542	2329.284
Dry gas meter STOP, cu.m.	2327.829	2328.542	2329.284	2330.144
Start power, kW	12.43	12.06	12.31	12.21
Stop power, kW	11.92	12.33	12.33	10.47
Average Power, kW	12.341	12.282	12.228	11.8
Dilution tunnel temperature	38.44	38.81	39.2	39.97
Dry Gas Meter Average Temperature, °C	23.12	24.32	25.07	25.68
Total Cycle Time (mins)	76.248	73.747	75.403	87.04
Average cycle Barometric Pressure, mB	1022	1022	1021	1020
Dilution Tunnel volume, cu.m.	380.478	367.161	374.955	431.118
Peak Power, kW	12.82	13.014	12.78	12.59
Calculated Efficiency	74.50	71.72	73.00	79.31
Emission Factor	0.3841	0.4395	0.3828	0.2428
Fuel consumption rate, kg/h	2.97	3.07	3.00	2.67
ECAN AQL2 Emission Factor, mg/MJ	25.65	30.49	26.08	15.23
Gas Meter Sample flow rate, L/min.	9.82	9.61	9.75	9.76

Notes: This was a single setting burner.





## Section 5: Photo-documentation



Photo 1: Appliance (as tested).



Photo 2: Typical fuel load (as tested).





Section 6: Supplied Documentation

## Design drawings as supplied:













































































































## Installation manual as supplied:







Congratulations on the purchase of your UL200 Ultra Low Emission Burner, by Jayline.

UL200 Ultra Low Emission Burner is not a conventional wood fire, it is a 'wood gasification stove', developed for the optimal burning of air dried natural wood.

The principle of the wood gasification stove & double combustion and its advantages

Generally: In a wood burning stove, a correctly burning flame emits the same amount of carbon dioxide (CO<sup>2</sup>) as would be emitted through the natural decomposition of the wood itself.

The quantity of CO<sup>2</sup> produced by combustion or decomposition of a tree is equal to the quantity of CO<sup>2</sup> that the tree would have extracted from the environment, releasing oxygen into the air whilst utilising the carbon for growth during its lifetime.

Unlike wood, when fossil fuels are burned (which are not renewable), like coal, diesel oil & gas, a huge amount of CO<sup>2</sup> accumulated in the course of millions of years is emitted into the atmosphere, increasing the green-house effect. Consequently, the use of wood as fuel maintains the perfect equilibrium of nature because it is a renewable fuel of which burning is comparable with nature's life cycle.

The principle of clean combustion is in perfect harmony with these characteristics.

Double combustion: What exactly do we mean by clean double combustion and how does it work? By controlling the flow of primary air and by adding secondary air, secondary combustion, or post-combustion, takes places. This is indicated by a second characteristically clearer and stronger flame below the main flame. By adding new oxygen, this flame consumes the unburned gasses, remarkably improving heat production and reducing the harmful emission of CO (carbon monoxide) caused by incomplete combustion. This is a unique feature of the UL200 stove.



Simply by burning your UL200 fire correctly, you can improve efficiency, reduce fuel consumption and minimise air pollution.

Please read this installation and operation manual carefully.

The installation of this fire must comply with the Installation Standard AS/NZS 2918:2001 as well as any additional local requirements. Please ensure you have all relevant permits prior to installation.

Keep this booklet as a reference guide.



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#### Items supplied with the fire

- Installation / Owners Manual
- Fire Lighter Cubes

## INSTALLATION OF YOUR UL200 ULTRA LOW EMISSION BURNER

Jayline recommend you use a suitably qualified installation technician to install your fire. Your dealer or heating specialist will be able to help with recommendations as well as advise on permits/consents required for the installation in your area.

Please follow carefully all dimensions and recommendations provided on the individual specification sheet for your model of heater as these dimensions comply with the required New Zealand standard (AS/NZS 2918:2001).

As safety and emissions performance can be affected by altering the appliance, no modifications are allowed without the written permission from the manufacturer.

#### Installation

- 1. Unpack the heater and check that there is no damage.
- 2. Ascertain the position of the roof penetration for the flue system.

A correctly installed flue system will normally prevent down draught problems during windy weather and eliminate smoke spillage problems due to lack of draught.

- Ascertain suitable position for appliance and size of floor protector and check the ceiling to ensure that no major structural members will be affected by the path of the flue.
- 4. Check measurements of the heater to combustibles.
- Locate the heater in the required position (also see 'Fitting Seismic Restraint' after installation instruction #10).
- Using a plumb line fastened to the ceiling, mark the centre of the flue penetration position and cut the ceiling hole to the required size and frame out.
- 7. Install the flue system (see flue installation instructions supplied with flue system).

#### Remember:

- The flue system should rise vertically from the appliance with as few offsets as possible.
   Offsets should be limited as each change in direction creates a resistance to airflow and makes flue cleaning difficult.
- The flue system must be well sealed using flue sealant with a minimum of 3 fixings at each joint.
- The flue pipe penetrating the chimney must continue to the minimum length of 4.6m from the top of the floor protector to the cowl.
- The Ø200mm liner must be fitted from the ceiling plate (as per the flue kit instructions) 1 x 1200mm length is supplied in the MKIII Flue Kit.





- Flue exiting more than 3 metres from the ridgeline must terminate no less than 1 metre above the roof penetration (see diagram 1 below).
- Where the top of the flue pipe is more than 2 metres above its highest fixing point, it must be stayed against high winds.



- 9. Drill and fix flue system into flue spigot with stainless steel self-tapping screws.
- Drill and secure the appliance to the floor protector using the two holes in the rear bracket of the appliance.

## FITTING SEISMIC RESTRAINT

The Floor Protector must be mechanically fixed to the floor by bolting or screwing. Note: Floor Protector to be fixed by gluing when on a concrete floor that may have water pipes or electrical wires present. The appliance can then be bolted to the floor protector with two 6mm x 50mm dynabolts or equivalent.

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## CORRECT OPERATION OF YOUR UL200 WOOD FIRE

Simply by burning your UL200 fire correctly, you can improve efficiency, reduce fuel consumption and minimise air pollution.

## Starting A New Fire

Please note: If lighting the fire for the first time, dust the fire, glass, trim and flue before firing to avoid particles sticking or discolouring. Once fired, some smoke and vapour will be released as the VHT painted surfaces enter the final curing process. Open all windows and doors while running the fire for up to 5 hours. People with respiratory, heart or other relevant medical conditions should avoid inhaling vapours during the curing process. All VHT paint will cure at the highest temperature achieved and will produce smoke again if this temperature is exceeded.

To start and maintain a good fire you will need the following items:

- 1. Approximately 16 pieces of kindling at 1kg in weight total.
- Intermediate Load #1: 4 pieces of wood approximately 300mm in length at 1.2kg total weight
- 3. Intermediate Load#2: 4 pieces of wood approximately 300mm in length weighing approximately 2.5kg in total
- 4. 4 x Fire Lighter Cubes (supplied) or fire lighters.
- 5.1 x long reach lighter



1 Kindling and 4 x Fire Lighers



2 Intermediate Load #1



3 Intermediate Load #2

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#### Lighting Instructions







Place the fire lighter cubes at even intervals around the circular downdraught cylinder. (Fig 1.)

Stack the kindling in a cross stack manner (Fig 2.) Light the fire lighters using the long reach lighter then close and lock the door.

Once the kindling fuel is well-alight (approximately 6-8mins) then the Intermediate #1 fuel loading can be added on top of the fuel bed. Again close and lock the door.

After another 6-8 minutes add the Intermediate #2 fuel load. Close and lock the door.

Ensure fuel is placed into the firebox - never thrown. This will preserve the life of your components, and avoid your fuel load toppling.

At this time the automatic bypass damper may engage, this will happen automatically between 14-20 minutes after the fire is started. This is dependent upon wood condition, heating of the firebox and ambient (room) temperature.

Once the initial fuel loads have burned down to an ember bed, the main loads can be applied (approximately 3kg of wood in two pieces). Apply further fuel as required. (Fig 3.)

#### General Operational Guidelines

#### DO:

When opening the door, unlatch the handle, slowly open the door approximately 25mm ajar, pause for 5-10 seconds then slowly draw the door fully open (this allows for smoke to exit correctly through the flue). From this time forward, the UL200 can be operated much like a traditional wood fire due to its automatic functions.

Ensure the entire fuel load fits inside the firebox before closing the door. The optimum fuel length is 300mm pieces.

Use well-seasoned wood with a moisture content of 10% up to 25% moisture. Kiln dried fuel is not recommended. Treated timbers of any kind should not be burned due to the release of harmful gases. Keep the lower chamber closed during operation and keep it free of any foreign material. Small pieces of charcoal may fall into the lower chamber, these will burn away in a short time.

Maintain the exterior surfaces of your fire using only a damp cotton cloth, your glass should remain clear when the UL200 is operated correctly.

DON'T: Be cold this winter



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Important points to remember

- . Do not attempt to add fuel (or any objects) into the lower chamber.
- . Keep the lower door closed at all times during operation
- · Because of the high temperatures achieved, surface colour may change

## PURCHASING THE FIREWOOD

The quality of the firewood you burn can have a dramatic effect on the efficiency and operation of the heater. The main factors that affect the burning characteristics of firewood are moisture content, tree species and piece size.

The moisture content of the wood affects the rate at which it burns and the efficiency of combustion. When trees are cut, the wood moisture content ranges between 35% and 60% by weight. If you attempt to burn wood this wet it will be hard to ignite, slow to burn and will hiss and sizzle in the firebox. So much energy will be consumed in boiling off the excess water that the efficiency of combustion and the heat to your home will be low, condensation and corrosion may be occurring in the flue and smoke may be causing problems to your neighbours. Properly seasoned wood ignites readily and burns efficiently.

PLEASE NOTE: WOOD WITH A MOISTURE CONTENT OF 10% - 20% IS THE RECOMMENDED WOOD TO USE IN CLEAN AIR ZONES

Firewood should be cut and split in the early spring and stacked under cover, with good ventilation, to be ready for burning when required.

Look for cracks in the end grain as a sign of dry wood. Stacks of firewood should be in an open area so that air can circulate through them. During the summer, as warm breezes flow through the stacks, carrying away the evaporating water, the moisture content of the wood will fall to around 20%. At this moisture content the wood is ready for burning. This can be checked with a moisture meter.

Although the energy content of dry wood per kilogram is almost the same regardless of species, some burn differently because of differences in density e.g pine is less dense than woods like Gum, Manuka or Black Wattle. A denser wood will produce a longer-lasting burn, while a less dense wood will bring a fire to an optimum burning temperature more quickly.

In general, commercial firewood dealers supply firewood in thicker pieces than modern wood-burning heaters can handle. It is often necessary to split some of the wood again before using it. The thickest piece size for high-efficiency and use in the UL200 fire should not exceed about 150mm (6 in.) across the largest dimension, or weigh no more than approximately 1.3kg. A range of smaller pieces will be needed for effective starting as described in the lighting instructions. Maximum log length should be no more than 300mm.

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# BURNING COAL, TREATED TIMBER, DRIFTWOOD, PLASTICS OR WASTE PRODUCTS

Due to the design and use of this product, the burning of coal, treated timber, driftwood, plastics or waste products is forbidden and will void the warranty.

#### CLEANING & MAINTENANCE: Perform only when unit has cooled.

Removing Ash from the Fire: Residual ash in the upper firebox can still be burned in the next firing. Remnants will burn away with each firing.

#### Removing the Downdraught cylinder:

Lift the cylinder out of the unit, and brush remaining ashes into the lower chamber for removal. Replace the downdraught cylinder correctly. Open the lower door and sweep out residual ashes, then close and lock the door.

#### Safety precautions

The following precautions must be taken prior to cleaning:

a) Make sure all parts of the fire are cold.

b) Make sure the ashes are completely cold and not burning.

c) Always use the most appropriate tools and items supplied.

#### Cleaning the glass

DO NOT CLEAN THE OUTSIDE OF THE GLASS AS IT IS SPECIALLY TREATED. Clean the inside of the glass with a damp cloth, newsprint, or damp paper rubbed in ashes. Do not clean the glass while the fire is working and do not use abrasive sponges or abrasive chemicals.

Clean all other external parts with a damp cloth. Never use alcohol or cleaning liquids.

#### GENERAL SEASONAL INSPECTION:

Jayline recommend all appliances are checked and serviced at least once every season by an NZHHA certified technician. This ensures safe operation of your appliance, and the opportunity to replace any consumables should it be necessary. A service record is included in this manual to retain proof of servicing should a warranty claim be required.



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## CHIMNEY CLEANING AND CHECKING FLUES

For all wood fires, flue cleaning must be done regularly to avoid serious flue fires. Frequently used fires should be cleaned at least once a year (some sooner). The cleaning rate, however, depends on the burning habits of the individual operating the wood fire and the fuel used.

It is recommended that flue sweeping be done by a professional chimney sweep. Chimney sweeping is a specialist task and competent professional sweeps are available throughout the country. When the flue is cleaned it is recommended that other parts, such as baffles and ceramic insulation materials are checked. Flue systems should be checked at least once or twice a heating season and may require checking more often if the fuel or operation of the appliance is incorrect. When a flue system becomes excessively blocked or requires frequent cleaning, advice should be sought to investigate the installation and the operation of the fire. Flue pipes can deteriorate very quickly with incorrect firing.

## CONSUMABLES

Some parts of your UL200 fire are considered consumable. They are designed to be replaced as they will degrade over time. The life of the consumables will vary depending on;

- · How often the fire is used
- · Type of fuel. Some woods are much harsher than others

General items that are considered consumables:

- Baffles
- Fire Bricks
- · Glass and door ropes
- · Downdraft cylinder and downdraft cassette

It is very important that you replace these parts when they show signs of wear. They effect how the fire runs and you may increase your fuel consumption or lower your efficiency if not replaced and can in some cases, damage the firebox. It is generally obvious once a part is in need of replacement. Steel components may split or large holes may appear, fire bricks may crack and disintegrate. We recommend you check your fire visually several times a year for damaged components.

## JAYLINE WARRANTY SERVICE INTERVALS

Jayline UL200 comes with an initial 5 year firebox warranty. This warranty is validated every 5 years to a maximum 15 year firebox warranty subject to a technicians service pack update. This ensures all consumable items have been inspected and replaced if required, and also notifies Jayline that your service records are current. Evidence of service pack update will be required in the event of a claim.

To order your service pack or for more information see www.jayline.co.nz or your local Jayline retailer.

See Page 12 for warranty details.

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#### Recognising errors and taking measures against faults

ERROR	POSSIBLE CAUSE	MEASURE
Smell/stench in the room	Leaking seals	Check the sealing of the doors and replace seals if necessary
Smell/stench in the room	Flue too short/poor draught	Check the flue system is not blocked and is clean. Have the fire maintenance & cleaning procedures been done?
The flame in the upper combustion chamber continously goes out	Flue too short/poor draught Excess moisture in fuel	Check the flue system is not blocked and is clean. Have the fire maintenance & cleaning procedures been done? Change fuel for moisture level 10-25% only.

#### WARNINGS

Below is a list of warnings to ensure efficient and safe operation of your UL200 wood fire:

- WARNING: DO NOT USE FLAMMABLE LIQUIDS OR AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHEN IT IS OPERATING.
- WARNING: DO NOT STORE FUEL OR COMBUSTABLES WITHIN APPLIANCE INSTALLATION CLEARANCES.
- · WARNING: NEVER OPEN THE LOWER DOOR WHEN IN USE.
- WARNING: DO NOT TOUCH ANY PART OF THE FIRE OTHER THAN THE DOOR HANDLE
   WHEN IN USE, AS ALL PARTS ARE EXTREMELY HOT.
- · WARNING: SUPERVISE CHILDREN AT ALL TIMES WHEN NEAR THE FIRE.
- WARNING: DO NOT ATTEMPT ANY CLEANING OF THE FIRE WHEN IN USE. WAIT FOR THE
   APPLIANCE TO COOL DOWN BEFORE CLEANING
- · WARNING: DO NOT REMOVE ASH FROM THE FIRE WHEN IN USE.
- · CAUTION: THIS APPLIANCE SHOULD NOT BE OPERATED WITH CRACKED GLASS.
- CAUTION: DO NOT USE THE FIRE IF THERE IS A MALFUNCTION, A SUSPICION OF BREAKAGE OR UNUSUAL NOISES.
- CAUTION: NEVER THROW WATER ON THE FIRE WHEN IN USE, OR USE WATER TO EXTINGUISH THE FIRE UNDER NORMAL CONDITIONS.
- CAUTION: THIS APPLIANCE SHOULD BE MAINTAINED AND OPERATED AT ALL TIMES IN ACCORDANCE WITH THESE INSTRUCTIONS.
- CAUTION: THE USE OF PRESERVATIVE-TREATED WOOD, COAL, PLASTICS, DRIFTWOOD
   AND/OR WASTE PRODUCTS AS A FUEL CAN BE HAZARDOUS.

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## UL200 WARRANTY

THIS IS AN IMPORTANT DOCUMENT - KEEP IT IN A SAFE PLACE

#### Congratulations!

We appreciate your decision to invest in our product. Your fire will become an integral part of your lifestyle, heating your home during the colder months and at the same time maintaining its appearance as a quality appliance. We want you to get the best possible performance from your fire and for this reason ask that you read this booklet carefully to take full advantage of your warranty.

In particular we urge you to have your fire and flue inspected annually and the flue swept if necessary. At the same time any other minor potential problems can be detected and corrected before they turn into major ones.

We think this is a small price to pay to ensure your heater is kept in peak condition. There is no doubt in our minds that you will extend the life of your fire.

We select only certain companies to act as our UL200 dealers. They must have high standards and be able to provide a total service both pre and post sale to you the customer. Therefore we have every confidence that our dealers will be able to answer your questions or fix any problem that may occur. If you have any further queries, please contact us at:

RETAIL LINKS PO BOX 9056 ANNESBROOK, NELSON NEW ZEALAND, 7044 FAX: 03 547 0780 EMAIL: heating@retaillinks.co.nz

Thanks again for choosing a UL200 wood fire. We wish you many warm winters to come!

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#### JAYLINE WOOD FIRE WARRANTY 15 YEARS (conditional)

Congratulations on the purchase of your Jayline Wood fire. You must register your fire by email or post within 30 days of installation to validate the guarantee (this registration card is in your install/operation quide).

Your firebox is guaranteed for domestic application against faults and defects in workmanship for 5 years up to a maximum of fifteen years (except for door seals, glass, glass seals, fire bricks, secondary air systems and baffle - which have 12months parts only cover). This firebox cover is subject to proof of annual inspection and servicing by a suitably qualified fire technician. Evidence of Jayline service pack at each 5 year interval enables your warrany for a further 5 years, up to a maximum 15 years.

Your fire must be installed in accordance with the manufacturer's instructions, any relevant bylaws, standards and regulations. Jayline are not responsible for consequential damage by a failure or defect covered in this guarantee. All claims (in the first instance) should be directed to the store of purchase. Any repairs undertaken without the manufacturer's authority will render the guarantee void. Water boosters must be a Jayline model specified with the fire to be covered; this guarantee applies to the original purchaser only.

Any damage caused by mishandling, misuse, abuse or alteration is not covered by this guarantee neither is normal wear and tear. Accessories such as flues, non-genuine parts or any third-party service are not covered by this manufacturer guarantee.

In the event of an approved claim; Jayline will complete repairs or replacement (at their discretion) and return the product to the owner. Any claim which can be remedied by on-site repair will be solely at Jayline's discretion and arrangement. Jayline are not responsible for site conditions such as draughts, cleaning or environmental conditions affecting performance.

For easy support on best use, troubleshooting and optional accessories; please see www.jayline.co.nz for further details and online product registration.

Jayline Fires PO Box 9056 Annesbrook – 7044 Nelson heating@retaillinks.co.nz

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## JAYLINE WOOD FIRE - SERVICE REGISTER Jayline recommends NZHHA registered service technicians

To ensure many years of performance and safety with your Jayline Fire, we have outlined the key servicing requirements that form part of routine annual servicing. Maintenance of parts that protect your firebox will extend the life of your fire, ensuring it burns clean and correctly. In the event the firebox is not maintained regularly, this will void the warranty and compromise future claims.

Every season following your fire installation, ensure your fire service technician checks the following points and performs a sweep. In the event you need to claim on your warranty; this evidence of your routine servicing will be requested to validate your claim

- sweep the chimney
- check the condition of the fire box
- check or replace the firebricks if necessary
- check combustion plates and replace if necessary
- check and replace air tubes if fitted/required
- check and replace glass and door seals if necessary
- check door seal and alter if not sealing correctly
- check installation if necessary, correct length of flue, flashing for weather tightness, flue being riveted correctly, flue joins sealed and fixed to appliance, overall operation of appliance with homeowner
- order parts and fit to appliance
- · notify homeowner of all findings and invoice accurately for all work carried out

I confirm that the appliance has been checked and repaired to a safe and correct operating standard as per the manufacturer's best practise recommendations above:

Interval	Service Agent	Signature	Phone	Date
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				

JAYL





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JAYLINE	
PRODUCT REGISTRATION	
TO ACTIVATE YOUR EXTENDED WAR WITHIN 30 DAYS OF INSTALLATION T	RANTY COVER, PLEASE COMPLETE AND RETURN O:
RETAIL LINKS LTD PO BOX 9056 ANNESBROOK, 7044 NELSON	OR ONLINE AT: WWW.JAYLINE.CO.NZ
NAME:	
ADDRESS:	
	FRONE
PURCHASED FROM:	
DATE INSTALLED:	
INSTALLED BY:	
DECEMBER 2017	







# your fire place





## Section 7: Measurement Uncertainty

All test equipment used and the test method is accurate to +/- 5%

Emissions filter balance uncertainty at 95% confidence (K=2) +/-0.0001g when weighing a 1g sample.

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End of report.





## **Efficiency & Emissions Test Summary**

Certification Date.	10/03/2018.
<b>Item Under Test (IUT):</b> Make: Model: Type:	Jayline. UL200. Freestanding.
Client Details: Attention: Company Name: Company Address: Phone: Manufacturer:	Mr. Ross Sneddon. Retail Links Ltd. 7 Forrests Road, Annesbrook, Nelson. (03) 547 0770. As above.
Tested Standard.	AS/NZS 4012:2014+A1 AS/NZS 4013:2014
Test Fuel.	Soft Wood (Pinus Radiata).
Configuration.	Free Standing/ Inbuilt.
Thermal Efficiency.	74.7 %
Emissions Rate.	0.36 g/kg or 23.94 mg/MJ.

The specimen tested was identified by Spectrum with the marking #0486.

The milligram per mega joule calculation was made in accordance with Chapter 3 of the Environment Canterbury AQL-2 document.

## **REPORT DETAILS:**

Prepared by.	Mr. P. Chen.
Approved by.	Mr. P. Sparrow
Report Reference.	#0486.
Release Date.	10/03/2018.



Spectrum Laboratories Ltd is accredited by International Accreditation New Zealand (formerly Telarc). The Tests reported herin have been performed in accordance with the terms of our accreditation. This accreditation does not extend to any opinions or any interpretations of test results contained in this report. LABORATORY REGISTRATION NUMBER 962