K2-800

Instruction Book

LACUNZA®

Lacunza congratulates you on your choice.
Certified under ISO 9001, Lacunza guarantees the quality of its appliances and undertakes to meet the needs of its customers.
Confident of the know-how afforded by more than 50 years' experience, Lacunza uses advanced technologies in the design and manufacture of its entire range of appliances. This document will help you install and use your appliance in optimum conditions for your comfort and safety.

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1. PRESENTATION OF THE APPLIANCE

For optimum operation of the appliance, we advise you to read this manual carefully before switching on the appliance for the first time. In case of problems or concerns, we urge you to contact your dealer, who will cooperate with you.

In order to improve the product, the manufacturer reserves the right to make changes without notice by updating this document.

This appliance is designed to burn wood in absolutely safe conditions.
WARNING: Faulty installation may have serious consequences.
Installation and all necessary regular maintenance operations must be performed by an authorized installer in full accordance with the specifications set out in the legislation applicable in each country and this instruction book.

1.1. General characteristics

	Unit	K2-800
Nominal Heat Output (N.H.O.) to atmosphere	kW	8.5
Efficiency at N.H.O.	%	78
CO emission at 13% O2 at N.H.O.	%	0,07
Gas mass flow at N.H.O.	g/s	9,6
Gas temperature of flue at N.H.O.	ºC	238
Gas temperature on the flue socket flange	ºC	286
Optimum flue draught	Pa	12
Wood consumption (beech) at N.H.O.	Kg/h	2.7
Dimensions of the firebox		
Width	mm	600
Depth	mm	220
Useful height	mm	295
Dimensions of the logs	cm	55
Volume heated (45w/m³) at N.H.O.	m³	189
Log load frequency	h	1
Capacity of the ashpit	L	1,1
Weight	kg	147
Flue socket diameter	mm	200
Voltage (AC)	V	230
Frequency	Hz	50
Energy efficiency class	-	A
Energy efficiency index (EEI)	-	93

Note: The values indicated in the above table are based on tests performed in accordance with UNE-EN 13229 with logs with no more than 18% humidity and pressure conditions as indicated in each case.

Warning: this appliance is designed and prepared to work with the types of fuel, degree of humidity of the fuel, fuel loads, fuel load frequencies, flue draught and system of installation indicated in this Instruction Book. Failure to respect these conditions may lead to problems with the appliance (deterioration, shorter useful life, etc.) which are not covered by the Lacunza warranty.

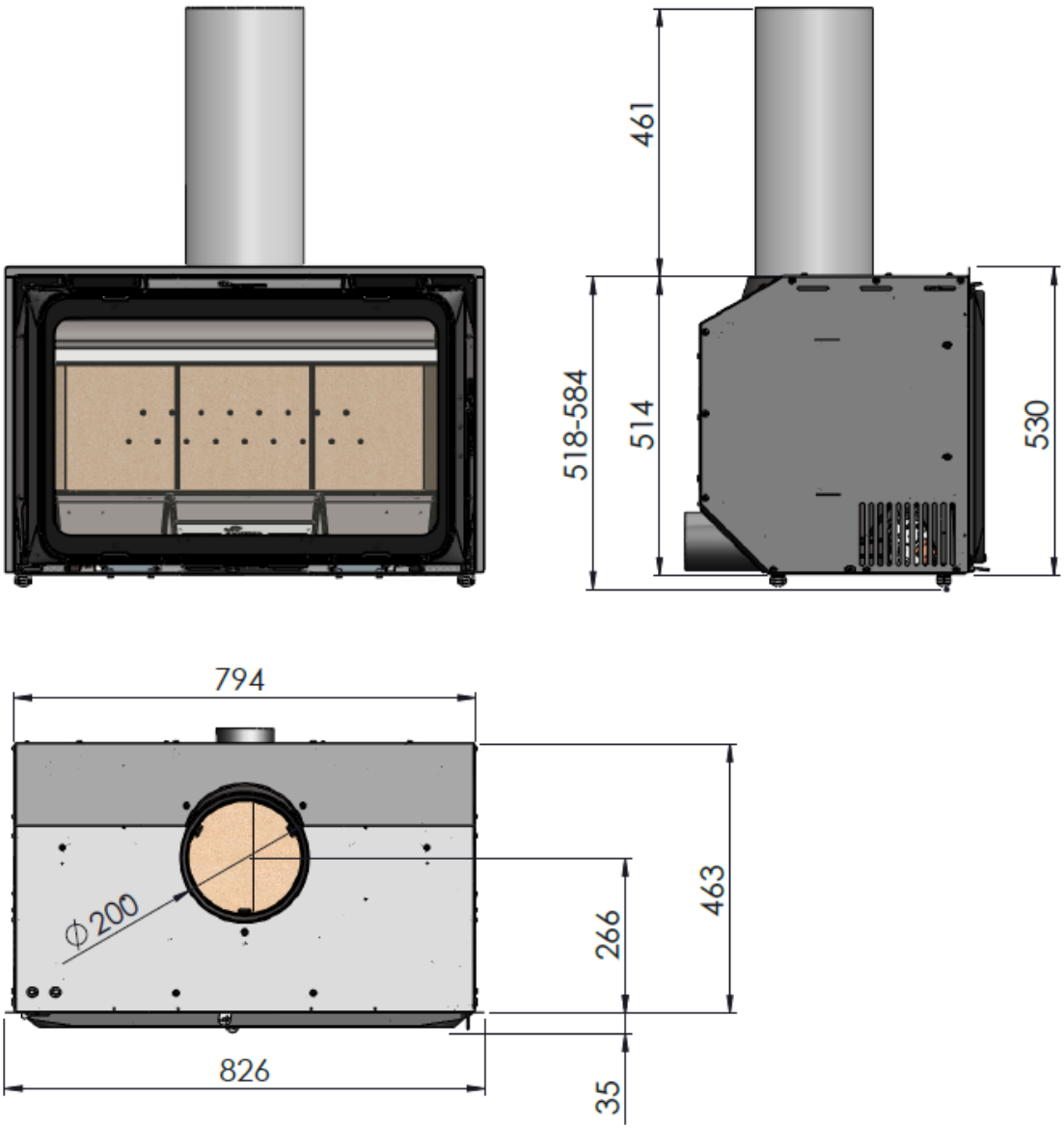


Figure No.1 - Dimensions of the K2-800 in mm

2. INSTRUCTIONS FOR THE INSTALLER

2.1. Warning to installers

All local and national regulations, including all those referring to national and European standards, must be observed when installing the appliance.

Installation of the appliance must be performed by an authorised installer.

An incorrectly installed appliance may lead to serious incidents (fires, creation of harmful gases, deterioration of nearby fixtures, etc.).

Lacunza's liability is limited to the supply of the material and does not include installation of the appliance.

2.2. Room for installation

2.2.1. Ventilation of the room

The appliance needs to consume oxygen (air) in order to work properly. Ensure a suitable air supply in the room in which the appliance is fitted. This quantity of oxygen is additional to the oxygen that we need in order to breathe (air renewal).

In order to ensure the high quality of the air you breathe and to avoid potential accidents resulting from high concentrations of the gases produced by combustion (mainly carbon dioxide and carbon monoxide), it is absolutely crucial to ensure the suitable renewal of the air in the room in which the appliance is fitted.

the room must always have at least two permanent grilles or openings to the exterior in order to renew the air (one for intake and the other for extraction).

For the installation of its appliances, Lacunza recommends an additional section for these openings. One of these two grilles must be situated high up in the room (at less than 30 cm from the ceiling) and the other one low down (at less than 30 cm from the floor). Both grilles must open outdoors in order to renew the air in the room with fresh air.

The minimum section that each of these grilles must have depends on the nominal output of the appliance in accordance with the following table:

Output of the appliance (kW)	Minimum additional section of each of the grilles (cm^2)
P≤ 10kW	70
10 < P≤ 15	90
15 < P≤ 20	120
20 < P≤ 25	150
25 < P≤ 30	180
30 < P≤ 35	210
P > 35	240

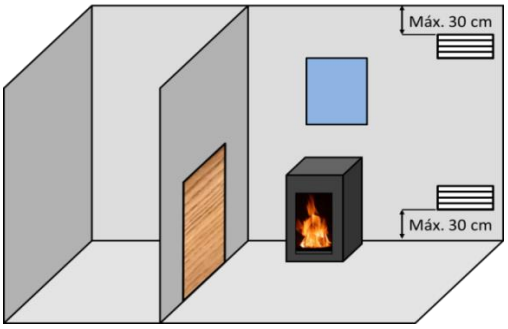


Figure No.2 - Guideline indications for ventilation grilles

In the case of appliances on which it is possible to pipe combustion air in from outdoors, the specifications described in the Table above are not necessary.

The appliance must always be used with the door(s) closed.

In rooms equipped with Controlled Mechanical Ventilation, the system extracts and renews the ambient air; in such cases, the room is at slightly low pressure and it is necessary to install a non-

closable outside-air inlet with a section of at least 90 cm².

2.2.2. Location of the appliance in the room

Choose a location in the room which favours good hot-air distribution by convection and radiation.

The interior of the apparatus incorporates two handles which facilitate its transferral to its final location. Hold the apparatus on both sides, as displayed in the image:

Figure No.3 - Positioning the handles for transferral

2.3. Installation of the appliance

2.3.1. Floor

Make sure that the base can withstand the total constructed weight of the appliance and its casing.

The apparatus should not be placed on combustible material.

2.3.2. Safety distances

Be sure to respect the appliance installation distances from **combustible materials**. Looking at the appliance head-on:

	Distance to combustible materials (mm)
From the right-hand side	400
From the left-hand side	400
From the rear	400
From the front	1000

Bear in mind that it may even be necessary to protect non-combustible material in order to prevent breakage, deformation, etc., as a result of overheating if the non-combustible material is not designed to withstand high temperatures.

2.3.3. Checks before lighting for the first time

- Make sure that the glass/es is/are not broken or damaged.
- Make sure that the flueway is not obstructed with packing or loose parts.
- Check the deflectors are correctly positioned.
- Make sure that the airtight joints on the flue circuit are in perfect condition.
- Make sure that the doors close properly.
- Make sure that all moving parts are fitted in place.

2.3.4. Height adjustment and levelling the appliance

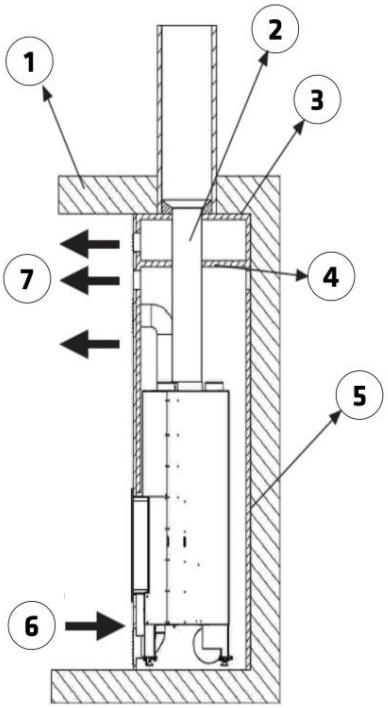
The apparatus incorporates 4 adjustable legs for its levelling and height adjustment with a 24 mm wrench.

Figure No.4 - Close up of the 24 mm wrench for adjusting the legs

If a fitting height of below 535 mm is required, the 4 legs can be removed by unscrewing them completely.

2.3.5. Casing

The image below gives an example of how the appliance can be encased properly:



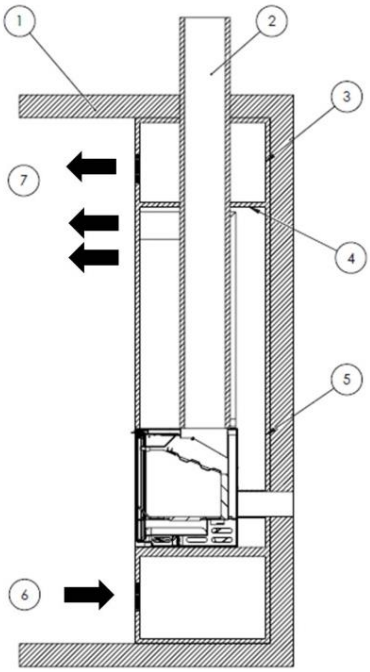


Figure No.5 - Interior diagram of the casing

Key to casing diagram:

1 Ceiling
2 Flue
3 Incombustible material (Inner hood insulation)
4 Insulating deflector made of incombustible material
5 Wall
6 Fresh-air inlet (1,000 cm^2)
7 Hot-air outlet (1,000 cm^2)

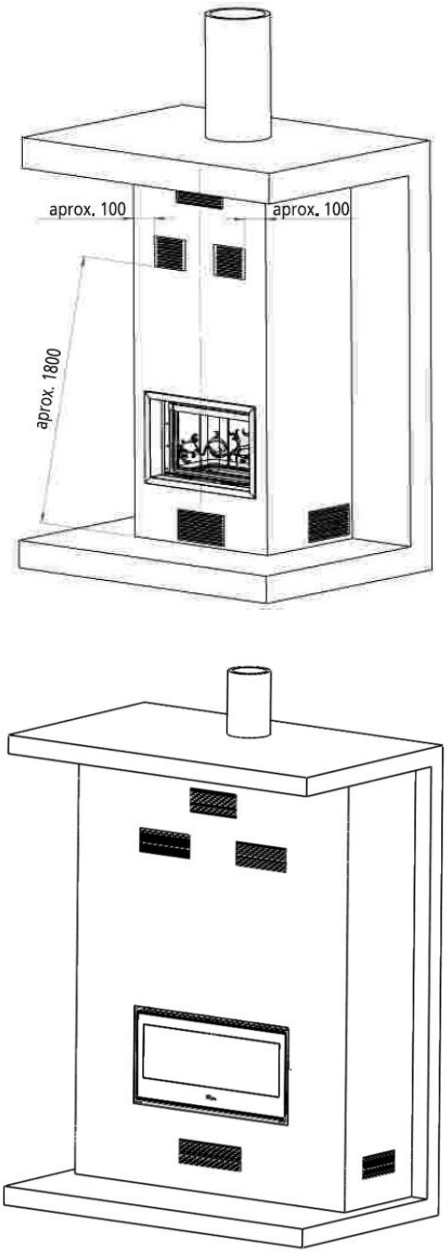


Figure No.6 - Exterior diagram of the casing

In order to enable suitable air circulation and correct operation, the casing must have a fresh-air inlet with a minimum section of 1,000cm^2 beneath the level of the actual appliance and a hot-air outlet measuring at least 1,000cm^2 above it (just before the insulating deflector inside the casing). These inlet and outlet sections must ensure air renewal in such a way as to avoid damage to parts inside the hood due to excess temperature.

This specification must be observed regardless of the type of installation chosen (with or without forced ventilation, combustion air from indoors or outdoors, directed hot-air outlets with or without pipes, etc.). A further hot-air ventilation grille is also recommended between the insulating deflector on the hood and the ceiling.

As well as this, the hood/closure should have a free opening of at least 100 cm2 for the intake of air for combustion.

On non-central-heating appliances (without back boiler), Lacunza does not recommend enveloping the outside of appliances with insulation.

Never completely block off the lateral ventilation grilles of the fairing.

The installer must fit the necessary inspection accesses (trap doors, hatches, etc.) so that everything inside the hood that may need maintenance work or replacement can be accessed at any time, e.g. counterweight system, hydraulic components, heating circuit safety components.

2.3.6. Connection to the flue

The appliance must be connected to the chimney flue using special piping designed to resist the products of combustion (e.g. stainless steel, enamelled steel, etc.).

To connect the flue to the socket flange, insert the piping inside the flange and seal the joint with fire sealant or fire cement to make it completely airtight.

The installer must ensure that the pipe connected to the appliance is well secured and there is no chance of it coming free from its housing (e.g. as a result of dilatation due to temperature, etc.).

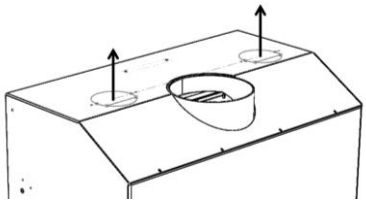
2.3.7. Piping air to other rooms

It is possible to pipe some of the heat generated to other rooms in the house using the appliance. This does not mean that the appliance works more efficiently, but it does mean that the heat it creates is distributed better. For this purpose, in the top surface of the appliance there are 2 potential hot-air outlets with diameters of 120mm on the top shell of the appliance. Pipes can be fitted from these outlets to other rooms. If you intend to do this, bear the following points in mind.

- The air ducts must always be heat insulated and smooth inside (not corrugated).
- The pipes must always have an upward slant to facilitate movement by air density.
- On routes with a lot of load loss (a lot of retention), air movement can be forced along the ducts using a motor or fan, provided that it is designed to withstand such temperature conditions.

Bear in mind that air ducts mean that noise travels more easily from one room to another.

The following table shows the heat output of the air from the hot-air outlets with the appliance working at Nominal Heat Output:



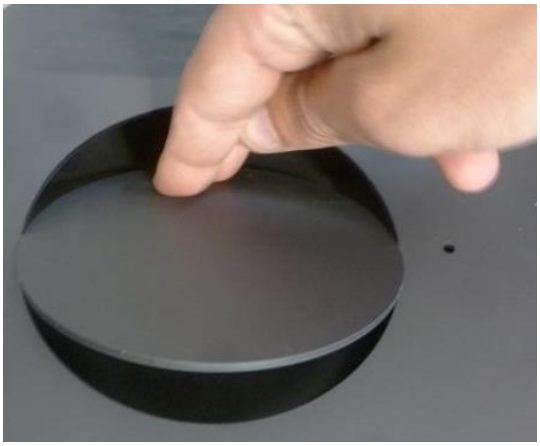
	Output (kW)
K2-800	2,5

Note: The values shown in the above table were measured at the appliance output point and based on tests performed at nominal heat output and maximum fan speed.

All hot-air ducts lose heat, meaning that the heat output obtained at the end of piping always depends on its design.

This insert has serial air outputs. If we wish to position the hot air duct, the following steps should be taken:

1. Turn the piece from the back of the circle as shown in the image sequences. This helps the movement of the air towards the air output.



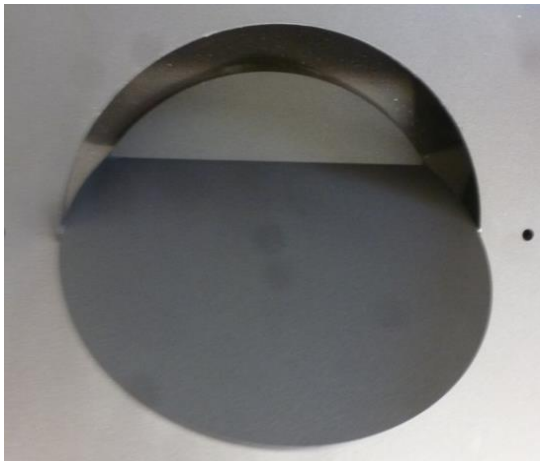


Figure No.7 - Sequence of how to turn the circular half-width

2. Position the nozzle correctly.

3. Screw the nozzle in 3 points with the sheet screws and washers provided

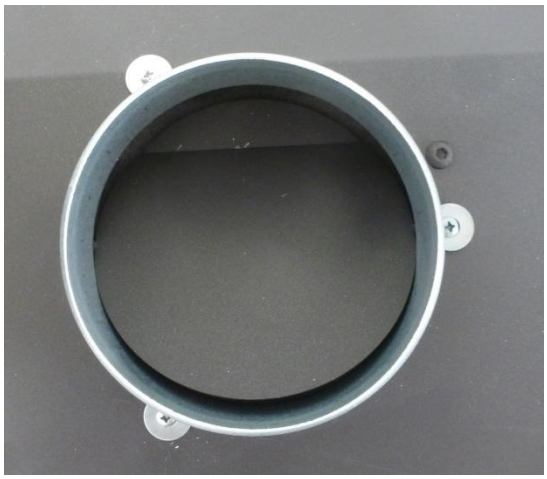


Figure No.8 - Correctly screwed nozzle at the 3 points with the washers

2.3.8. Piping air to the firebox

On this model, it is possible to pipe air to the appliance for combustion straight from outdoors. We recommend that, if possible, air be drawn from outdoors for combustion via a non-closable pipe with a diameter of 100mm leading to the nozzle on the bottom-front of the appliance.

This nozzle can be swivelled to face backwards, downwards or diagonally.

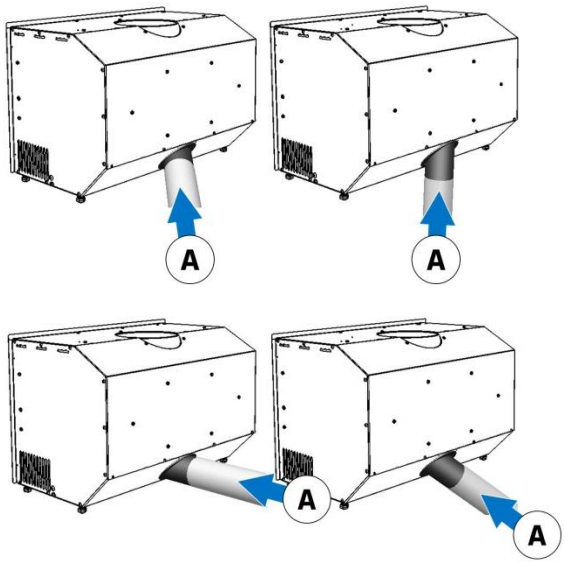


Figure No.9 - Different swivel options for air intake for combustion

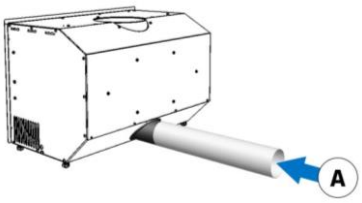
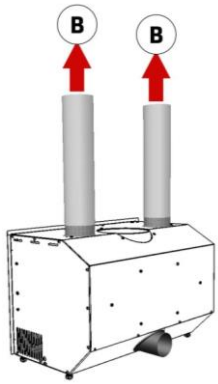
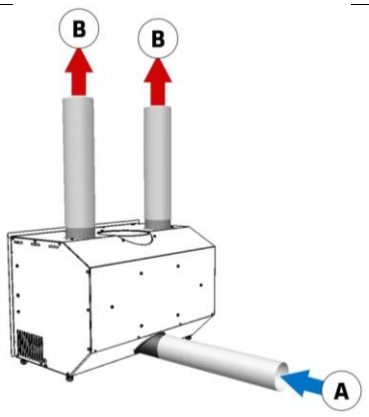
This is the best option because it means that draughts are not created in and oxygen is not consumed from the room in which the appliance is fitted. A further advantage is that there is no danger of downdraught which may hinder the correct updraught of the appliance when an extractor or mechanical ventilation appliance is used in the same room as the central-heating appliance or in another one alongside it.

If this is not possible, ensure that the appliance receives air for combustion via the relevant grille at the bottom of the hood (in addition to the hood ventilation grilles).

2.3.8.1. Combustion-air intake and hot-air output installation options

Different installation systems need to be borne in mind depending on the source of combustion air (air from outdoors or from inside the room in which the appliance is fitted) and the hot-air output system (air output by natural convection or by forced convection involving a fan) to ensure that the appliance works properly. There now follows a description and image of each of these options:

A: Ductable combustion air intake (Ø100mm)
B: Ductable hot air outlets (Ø120mm)

OPTION	A ductable combustion air intake	B ductable hot air outlets
(Factory setting)	Not ducted	Not ducted (towards the front)
	Ducted (Ø100)	Not ducted (towards the front)
	Not ducted	Ducted (Ø120)
	Ducted (Ø100)	Ducted (Ø120)

2.3.9. Exterior Frame. Assembly

There are various possibilities when it comes to positioning the frame, depending on the fitter's preferences:

Screws

6 black screws are provided with the frame which can be used to attach it to the apparatus. This should be done as follows:

- Loosen (without removing) the two screws on the upper support of the door with a 10 mm wrench. By lifting this piece up, the door can be removed to provide comfortable access to the fastening points of the frame.

Figure No.10 - Loosening the door support with a 10 mm wrench

- Fasten the 6 screws provided using an L-shaped Torx T20 wrench.

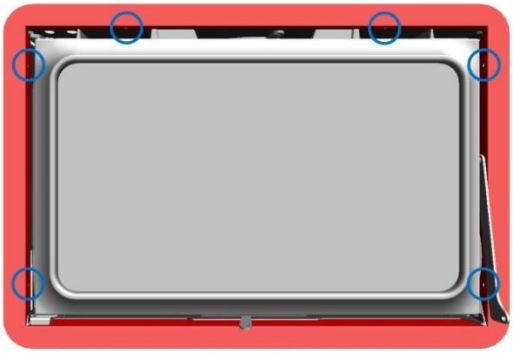


Figure No.11 - Screw fastening points

Bending the tabs

The 6 frame tabs can be bent using a flat-bladed screwdriver and the frame can be attached without needing to remove the door or to screw anything on.

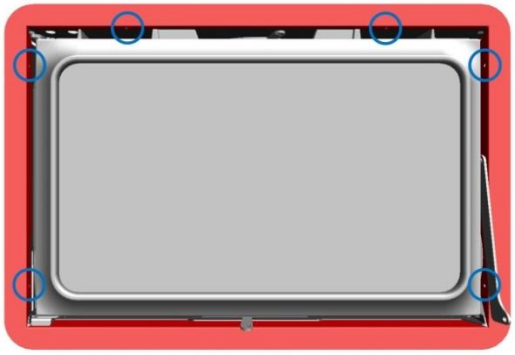


Figure No.12 - Position of the 6 tabs to bend

Figure No.13 - How to bend the tabs

If we are careful not to bend the tabs more than 45º, we can extract the frame, even once the apparatus is embedded.

Figure No.14 - Close up of the bent tab

In any case, Lacunza always recommends adhering the frame to the wall by its 4 sides using high-temperature silicon. The frame is flexible and therefore

it can be adapted to any imperfections on the wall.

2.3.10. Fan-potentiometer connection

K2-800 models are prepared for connection on the potentiometer supplied. The appliance has 2 hoses protruding from it:

- PROBE hose, 2 wires.
- Fan hose “VENT”, 3 wires.

The two hoses are connected to the potentiometer according to the connection diagram in the potentiometer instruction manual.

The 3-wire power hose for the fan is not supplied and must be connected by a person qualified to install it.

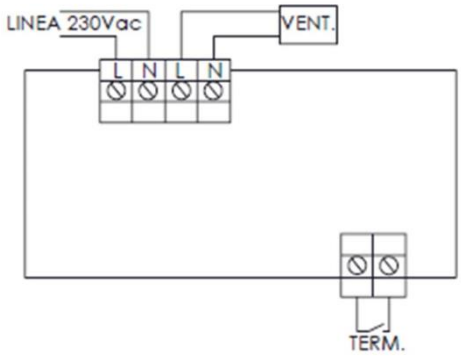


Figure No.15 - Connections to make on the Itaca fan potentiometer

The potentiometer has a safety system which starts the fan when the thermostat probe detects temperatures of more than 50ºC even though the potentiometer is set to OFF; regardless of whether it is in automatic or manual mode. If the appliance is no longer going to be loaded with wood (e.g. when you go to bed) and the noise of the fan may prove annoying, it can be switched off by cutting the power supply to it using the switch suggested above.

Earth the system on the plastic terminal strip supplied with the potentiometer.

WARNING: the operating temperature of the potentiometer supplied by Lacunza is from 0 to 40ºC. Be particularly careful when choosing the place to fit it so that it cannot be damaged by temperatures of over 40ºC. Fully insulate the potentiometer in order not to encounter this problem.

Read the potentiometer instruction manual.

Due to the movement of the ventilators, this apparatus may vibrate structures that come into contact with it. These vibrations may cause noise. To prevent these vibrations from occurring, a damping element that is also resistant to high temperatures (up to 200ºC) should be positioned between the base of the apparatus and the supporting structure.

2.4. Chimney flue

The chimney flue must comply with present standards on the installation of chimneys.

In rooms equipped with Controlled Mechanical Ventilation, the ventilation outlet must never be connected to the flue.

The appliance must always have its own chimney flue, never sharing a chimney flue with another appliance.

2.4.1. Type of flue

The flue must be made of special material designed to resist the products of combustion (e.g. stainless steel, enamelled steel, etc.).

Non-central-heating appliances (without back boiler) require an insulated, double-sleeve flue only on those sections that run outdoors or through cold areas. Single piping can be used inside the building, the heat of the gases serving to heat rooms, insulating only those sections

where excess temperature may cause damage.

If the chimney is constructed, then it is necessary to pipe and insulate it to ensure correct updraught.

The diameter of the pipe must be the same as the diameter of the flue socket on the appliance over its entire length in order to ensure correct operation.

The flue must prevent the entry of rainwater.

The flue must be clean and airtight over its entire length.

The flue must be at least 6m tall and the chimney cap must not hinder the free release of gases.

If the flue tends to suffer from downdraught, then it is necessary to fit an effective anti-downdraught cowl, a static cowl or a smoke extraction fan, or reshape the chimney.

Never make 90º bends, due to the great loss of draught they cause, and reduce 45º bends down to an absolute minimum. Each 45º bend is equivalent to a 0.5m reduction in flue length. Horizontal flue sections should not be installed because they cut updraught a great deal.

If the flue draws at more than 20Pa, then an effective damper must be fitted on the flueway. This damper must be visible and accessible.

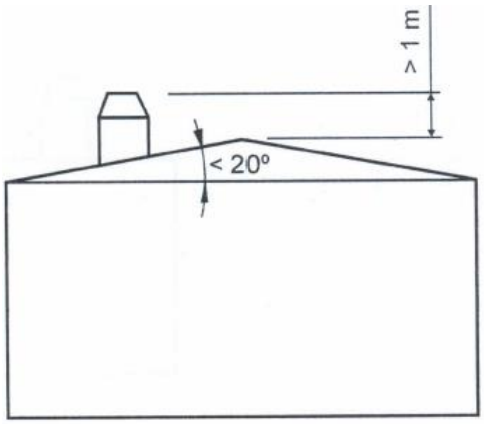
The chimney flue must not rest on the appliance.

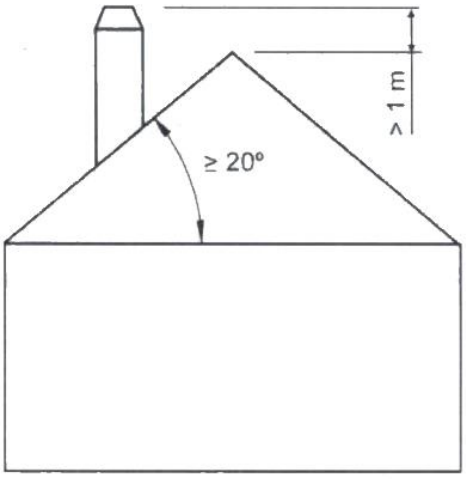
Bear in mind that high temperatures may be reached in the flue, meaning that it is essential that insulation be enhanced in sections in which combustible material is present (wooden beams, furniture, etc.). It may even be necessary to protect non-combustible material in order to prevent breakage, deformation, etc., as a result of overheating if the material is not designed to withstand high temperatures.

It must be possible to clean the entire flue, no sections being left inaccessible for cleaning purposes.

2.4.2. Chimney crown

The upper end of the chimney must clear the roof, the roof ridge or any obstacle located on the roof by at least 1m.





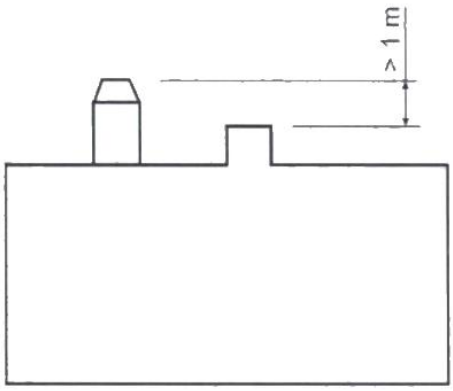


Figure No.16 - Distances between chimney crown and roof ridge

The chimney crown must clear the highest point of any neighbouring building or obstacle located within a 10m radius of the chimney outlet by more than 1m.

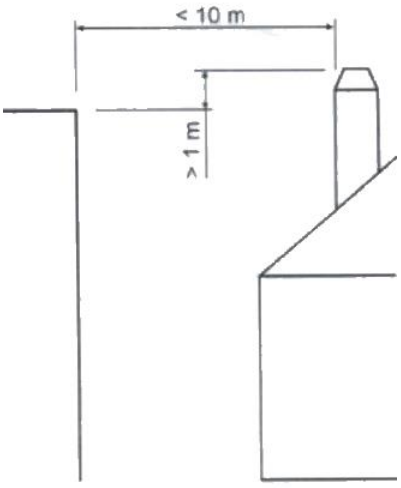


Figure No.17 - Distances between the chimney crown and objects within a 10m radius

The chimney crown must clear any neighbouring building or obstacle located within a radius of 10m to 20m from the chimney outlet.

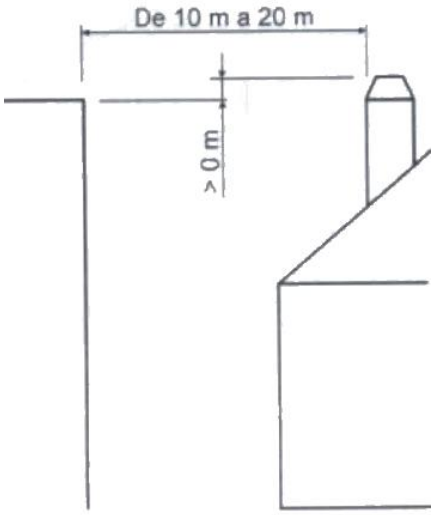


Figure No.18 - Distances between the chimney crown and objects within a radius of between 10 and 20m

3. INSTRUCTIONS OF USE

The manufacturer accepts no liability whatsoever for damage caused to parts as a result of the improper use of non-recommended fuels, modifications made to the appliance or how it is installed. **Only use original replacement parts.**

All local and national regulations, including those referring to national and European standards, must be observed when using the appliance.

Heat is diffused by radiation and convection via the front and exterior of the appliance.

3.1. Fuel

This appliance must not be used as an incinerator. Do not use non-recommended fuels.

- Use dry logs (max. 16% humidity), cut at least 2 years ago, clean of resin and stored in a sheltered, ventilated place.
- Use hard woods with high calorie values and good ember production.
- Large logs should be cut to useable lengths before being stored. The logs should have a maximum diameter of 150mm.
- Finely-chopped wood produces greater heat output, but also burns more quickly.

Optimum fuels:

- Beech.

Other fuels:

- Oak, chestnut, ash, maple, birch, elm, etc.
- Pine and eucalyptus logs are low density and produce very long flames, and may cause the parts of the appliance to wear out more quickly than normal.
- Resinous wood may mean that the appliance and the flue need to be cleaned more often.

Non-permitted fuels:

- All types of coal and liquid fuel.
- "Green wood". Green or damp wood reduces the performance of the appliance and leads to soot and tar build-up on the inner walls of the flue, obstructing it.
- "Recovered wood". The burning of treated woods (railway sleepers, telegraph posts, plywood, fibreboard, pallets, etc.) quickly blocks the system (soot and tar build-up), harms the environment (pollution, smells) and may lead to deformation of the firebox due to overheating.
- All materials which are not wood (plastic, spray cans, etc.).

Green and reprocessed wood may cause chimney fires.

The graph below shows how the humidity of firewood affects its heat output:

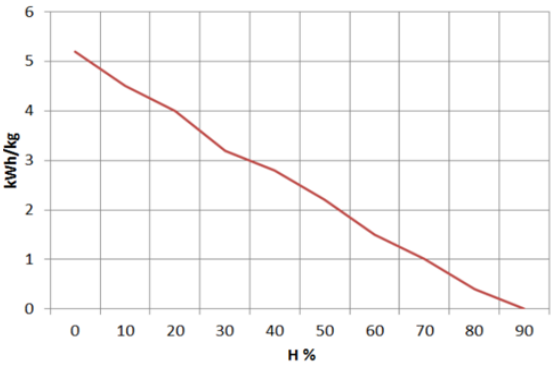


Figure No.19 - Relationship between firewood humidity and heat output.

3.2. Description of the parts of the appliance

3.2.1. Operating components

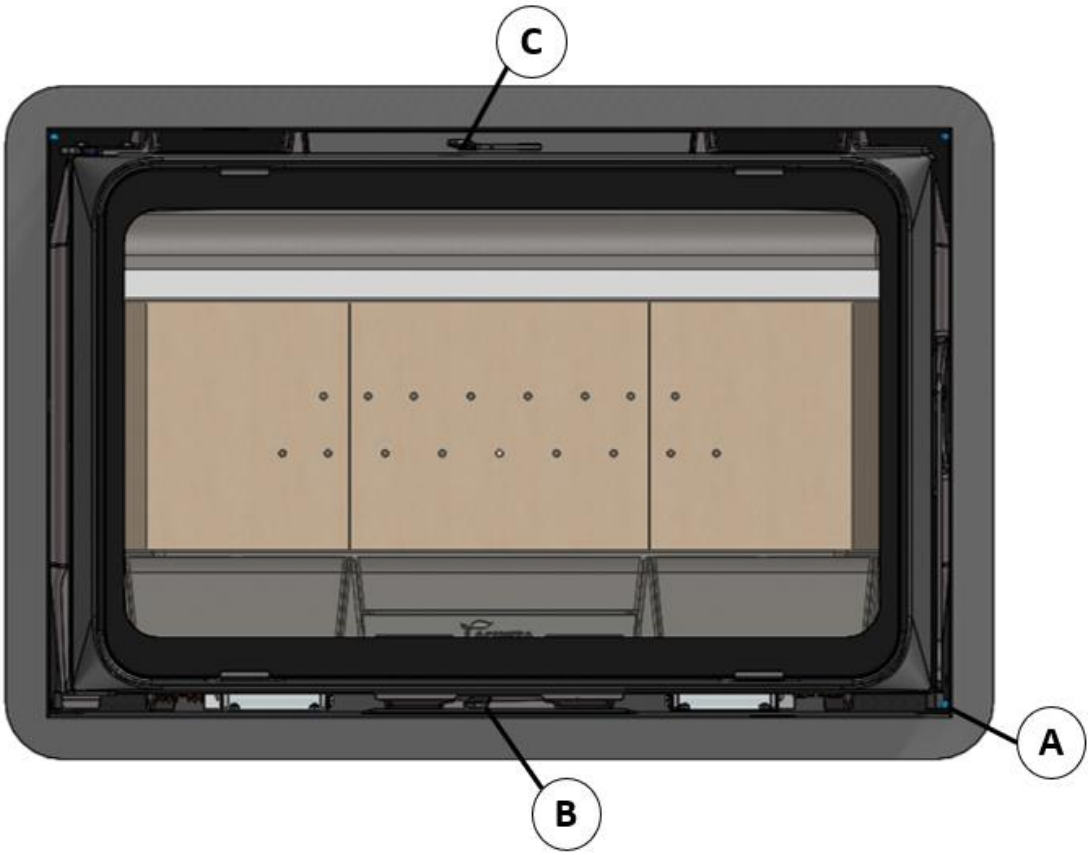


Figure No.20 - Operating components on the appliance

- A: Firebox door handle
- B: Primary air intake: open to the right
- C: Secondary air intake: open to the right

3.3. Lighting

Use of the appliance in warm weather (warm days, early hours of the afternoon on sunny days) may lead to lighting and updraught problems.

Certain weather conditions, such as fog, ice, humidity entering the flue, etc., may hinder sufficient updraught in the flue and lead to suffocation.

Proceed as follows in order to light the appliance satisfactorily:

- Open the firebox door(s) and open all the firebox air-intake inlets to the full.
- Place paper or a firelighter and some wood chips in the firebox.
- Light the paper or firelighter.

- Leave the door slightly ajar, the width of two or three fingers, for about 15 minutes until the glass warms up.
- The first time the appliance is lit, the fire should be gentle to allow the parts of the appliance to dilate and dry.

Important: The first time it is lit up, the appliance may give off smoke and strange smells. This is not a cause for concern. Open an outdoor window to ventilate the room during the first few hours of operation.

If you notice water around the appliance, this is produced by the condensation of the moisture in the wood on lighting the fire. This condensation will no longer appear when the appliance has been lit three or four times and has adapted to its flue. If it does not disappear, then check the flue draught (length and diameter of the flue, flue insulation, airtightness) and the humidity of the wood used.

3.4. Loading fuel

In order to load firewood, open the firebox door, preventing the sudden entry of air to the firebox so that smoke does not enter the room that the appliance is installed in.

Perform this operation with the glove to prevent burns to the hands.

The maximum load height is 2 logs with diameters of approx. 10 cm.

The minimum interval between loads for nominal heat output is 60 minutes.

Always load with the nominal amount (see table in section 1.1).

For minimum burning (e.g. at night), use thicker logs.

When the firebox is loaded, close the door.

Be careful when placing logs in the firebox on appliances with vermiculite interiors. Vermiculite is a fragile material and may crack if knocked.

3.5. Operation

The appliance should be operated with the door closed.

For safety reasons, never close all the appliance's combustion-air intakes.

Primary-air intake

By opening this inlet, air enters the firebox via the firebox grille.

Secondary-air intake

By opening this inlet, air enters the firebox via the top of the firebox door.

IMPORTANT: Keeping the secondary-air intake open helps keep the door glass cleaner for longer.

IMPORTANT: The appliance is exposed to extreme changes in temperature and may, as a result, make noises when in operation. These noises are a natural result of expansion/contraction of the parts which make up the appliance. Do not be alarmed by noises of this kind.

Double-combustion air intake

The air enters freely the combustion flame, making for more efficient and less polluting combustion because post-combustion takes place, burning the particles which were not burned in the first combustion. This increases the performance of the appliance and reduces emissions.

In order to obtain maximum output, open all the air intakes to the firebox and in order to obtain minimum output, tend towards closing them. For normal use, we

recommend you close the Primary Intake and leave the Secondary 15 mm open aproximately.

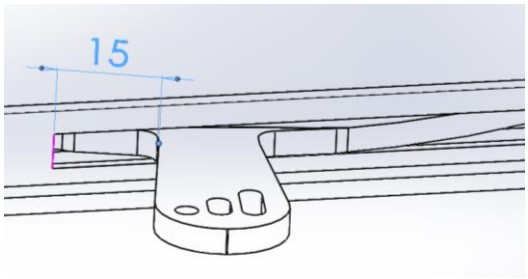


Figure No.21 - Secondary-air intake 15 mm open

3.6. Removing ash

After the continuous use of the apparatus, it is essential to extract the ashes from the firebox.

To empty the ashes from the firebox more easily, this apparatus gives us various possibilities:

Movement of the separator to release the emptying hatch

This way, the firebox ashes can be pushed to the ashpit box through this opening.

Figure No.22 - Separator moved to the released hatch position

In order to fill the complete capacity of the ashpit box, shake it back and forth.

Remove the separator

This way, there is even greater access to push the ashes from the firebox into the ashpit box.

Figure No.23 - Removing the separator

Figure No.24 - Removed separator

In order to fill the complete capacity of the ashpit box, shake it back and forth.

Extract the ashpit box cold, or using some element to avoid burns (glove).

Coals should never be disposed of whilst still hot.

Clean the ashes from the primary register area

This area will require regular cleaning, to ensure an adequate air-flow and a correct movement of the primary register.

To access this area, follow the sequence below for removing pieces:

Figure No.25 - Disassembly of pieces for cleaning access

Once all these pieces have been removed, clean the ash from all the area marked with a circle.

3.7. Cooking grille

This accessory enables foods to be cooked on the grill. Along with the grille, two handles are provided to allow the grille to be moved without the risk of burns.

Figure No.26 - Cooking grille in position

The cooking grille is an element to be used intermittently. The grille is not designed to work non-stop over the fire.

Never close the door with the handles inside the firebox. These handles should only be used when the grille is being moved.

3.8. Deflectors

The appliance has 2 vermiculite deflectors and a stainless-steel reinforcement that joins them together.

Dismantling the Ocean deflector

First extract the stainless-steel reinforcement. In order to do this, draw it towards the front of the appliance to release it from the vermiculite parts.

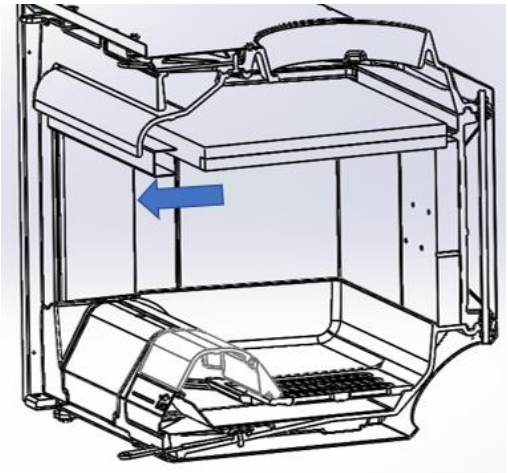


Figure No.27 - First movement to release the reinforcement

Finally, the vermiculite deflectors can then be extracted as shown:

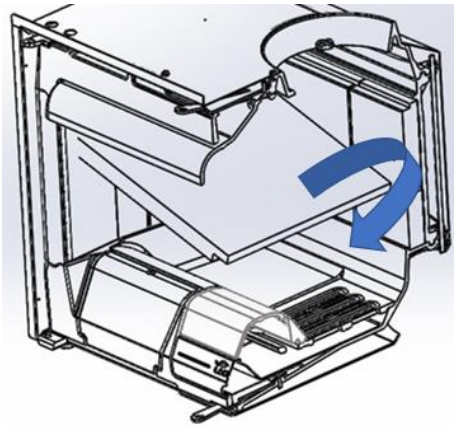


Figure No.28 - Extracting the vermiculite deflectors

3.9. Electrical system

Forced convetion. Fans

This model has two fans for the forced convection of the hot air generated around the appliance inside the shell. This air can be piped to other rooms.

IMPORTANT: This appliance is not covered by our warranty unless directly connected to the mains electricity supply in accordance with the conditions described in the relevant section in 1.1.

Potentiometer operation:

By means of its rotating lever, the potentiometer controls the flow of hot-air output from the appliance:

- **Automatic mode:**

The fan automatically starts working at the set speed via the thermostat. When a fire has been lit in the firebox and the thermostat reaches a temperature of approximately 50ºC, the fan starts working at the power set on the potentiometer (rotating wheel) and stops automatically when the temperature drops beneath 50ºC.

- **Manual mode:**

The fan works at the speed set using the rotating wheel independently of the thermostat, i.e. the fan can be started up before the thermostat reaches 50ºC.

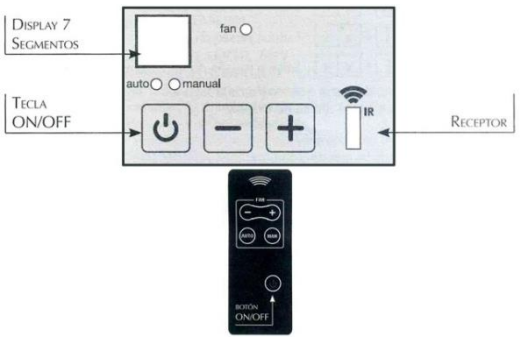


Figure No.29 - Potentiometer display

For more information, see the potentiometer instruction manual.

4. MAINTENANCE AND IMPORTANT ADVICE

4.1. Maintenance of the appliance

The appliance, the flue connector piping and the flue must be cleaned regularly, particularly following long periods without use.

4.1.1. Firebox

Clean the firebox area of ash, etc.

4.1.2. Flue socket

The flue socket area must be kept clean at all times for the appliance to work properly.

It must be cleaned as often as required. How often it is cleaned depends on how much the appliance is used and the type of fuel employed.

4.1.3. Painted sheet-steel-cast-iron parts.

These parts should be cleaned with a brush or dry cloth. Do not dampen the parts: the steel could rust and the paint could blister and chip. Be particularly careful when cleaning the glass: the liquids used must not dampen the painted steel.

4.1.4. Firebox glass

Keep the secondary-air intake open to keep the door glass cleaner for longer. However, the glass may get dirty the longer the appliance is used. Special degreasing products designed for the purpose should be used to clean it.

Clean when the glass is cold and taking care not to apply the glass cleaner directly onto the glass as it could come into contact with the door-seal cord and damage it.

4.1.5. Electrical system

The electrical system should be cleaned-vacuumed regularly (depending on the installation and use), so as to avoid the accumulation of ash, lint and other remains that may generate strange noises and/or deteriorate the ventilators and electrical system. Disconnect the electrical network system to perform this task.

Figure No.30 - Access to fans

4.1.6. Air intake registers

In the air intake for combustion registers, remains of ash, sawdust, cleaning fluids, etc. may accumulate, which restrict or hinder its movement. In these cases, they should be released and cleaned.

4.2. Maintenance of the chimney flue

VERY IMPORTANT: In order to avoid incidents (chimney fires, etc.), it is necessary to perform maintenance and

cleaning operations on a regular basis; if the appliance is used often, then the chimney and the flue connector piping must be swept several times a year.

In the event of fire in the chimney, close the flue draught, close doors and windows, remove embers from the firebox, block the connection hole with damp cloths and call the fire brigade.

4.3. Important advice

Lacunza recommends that only Lacunza-authorised replacement parts be used.

Lacunza accepts no liability for any modification to the product which it has not authorised.

This appliance is a heat-producing appliance and contact may lead to burns.

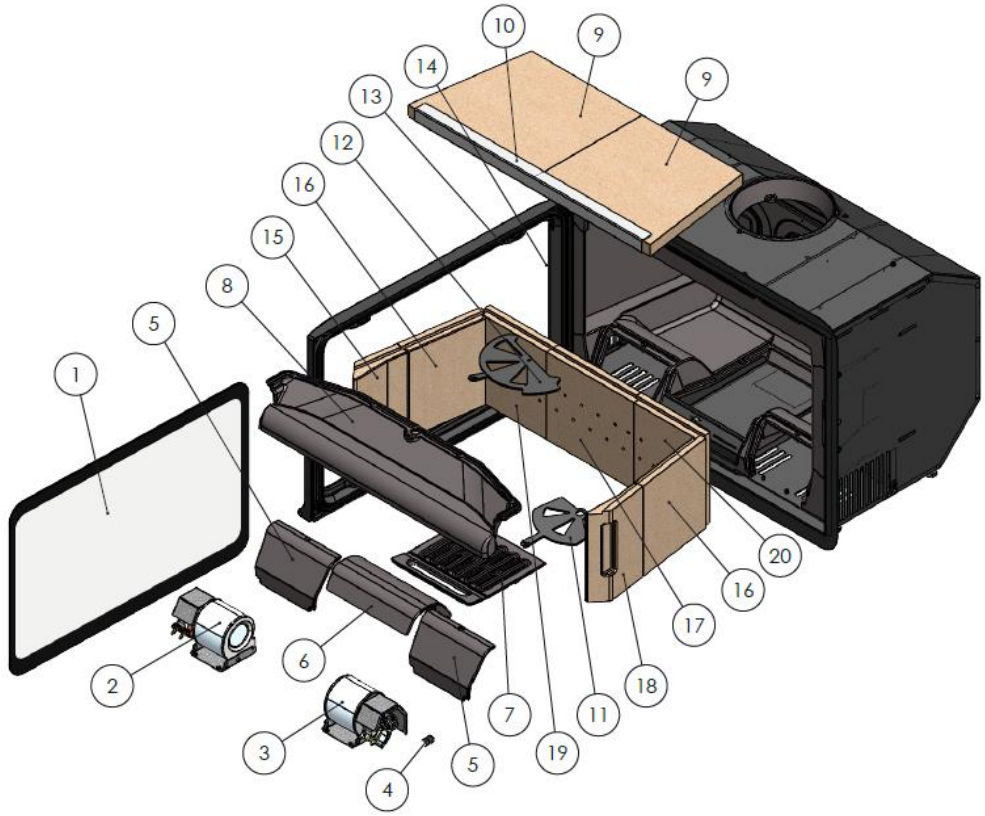
This appliance may remain HOT for a period of time after it has gone out. MAKE SURE THAT SMALL CHILDREN DO NOT GO NEAR IT.

5. TROUBLESHOOTING

This symbol means that a qualified professional should be called to perform the operation.

Problem	Probable causes		Solution
The fire does not light properly **The fire does not stay alight**	Green or damp wood		Use hard woods, cut at least 2 years ago and stored in a sheltered, ventilated place
	The logs are too large		Use crumpled paper or firelighters and dry wood chips to light the fire. Use split logs to keep the fire going
	Poor-quality wood		Use hard woods which produce heat and embers (chestnut, ash, maple, birch, elm, beech, etc.)
	Insufficient primary air		Open the primary- and secondary-air intakes completely, or even open the door slightly. Open the outdoor-air inlet grille
	Insufficient updraught		Check that the draught is not blocked. De-soot if necessary. Check that the flue is in perfect condition (airtight, insulated, dry, etc.)
The fire flames up too much	Excessive primary air		Close the primary- and secondary-air intakes partially or totally
	Excessive updraught		Install a draught damper
Smoke given off on lighting	Poor-quality wood		Do not continually burn chips, carpentry scraps (plywood, pallets, etc.)
	Cold flue		Heat up the flue by burning a piece of paper in the firebox.
Smoke during burning	The room is at low pressure		In rooms with Controlled Mechanical Ventilation, leave an outdoor window ajar until the fire is fully alight.
	Too little wood loaded		Load as recommended. Loads notably smaller than those recommended lead to low smoke temperature and downdraught.
	Insufficient updraught		Check the condition of the flue and insulation. Check that the piping is not blocked. Clean mechanically if necessary
	Wind enters the flue		Install an anti-downdraught system (Cowl) at the top of the chimney
Does not warm up enough	The room is at low pressure		In rooms with Controlled Mechanical Ventilation, there must be an outdoor-air inlet
	Poor-quality wood		Only use the recommended fuel
The fans do not work	Electrical fault		
Water condenses (after the appliance has been lit more than 3 or 4 times)	Too little wood loaded		Load as recommended. Loads notably smaller than those recommended lead to low smoke temperature and condensation.
	Green or damp wood		Use hard woods, cut at least 2 years ago and stored in a sheltered, ventilated place.
	Condition of the flue		Lengthen the flue (5-6 metres minimum). Insulate the flue properly. Check the airtightness of the flue/appliance.

6. BASIC BREAKDOWNS



Nº	CÓDIGO	DENOMINACION	CANTIDAD
1	504430000004	Cristal hogar K2-800	1
2	504420000003	Subcjto premontado ventilador izdo IF-800	1
3	504420000004	Subcjto premontado ventilador dcho IF-800	1
4	500900000017	Termostato cerámico 45ºC	1
5	504420000005	Tapa ventiladores fundición IF-800	2
6	504420000006	Separador fundición IF-800	1
7	504420000007	Parrilla fundición IF-800	1
8	504420000008	Guía secundario fundición IF-800	1
9	5044400000	IV-800 Deflector vermiculita IZQ-DCHO	2
10	5044400001	IV-800 Angulo sujeción deflector	1
11	504420000011	Pieza móvil registro primario IF-800	1
12	504420000012	Pieza móvil registro secundario IF-800	1
13	509020000042	Cordón Negro Ø13mm	3m
14	500000000510	Cordon plano pelos 8x2mm	3m
15	504430000000	Vermiculita lateral izda delantera IV-800	1
16	504430000001	Vermiculita lateral trasera IV-800	2
17	5044400002	Vermiculita trasera central IV-800	1
18	504430000003	Vermiculita lateral dcha delantera IV-800	1
19	5044400003	Vermiculita trasera izquierda IV-800	1
20	5044400004	Vermiculita trasera derecha IV-800	1

7. DECLARATION OF PERFORMANCE

CH-S-025

DECLARACIÓN DE PRESTACIONES Conforme al R. E. Productos Construcción (UE) N° 305/2011
DÉCLARATION DE PERFORMANCE Selon le Réglement (UE) N° 305/2011
DICHIARAZIONE DI PRESTAZIONE In base al Regolamento (UE) N° 305/2011
DECLARATION OF PERFORMANCE According to Regulation (UE) N° 305/2011
DECLARAÇAO DE PRESTAÇÕES Em base com o Regulamento (UE) N° 305/2011

1. Nombre y/o código de identificación única del producto:
   Nom-code d'identification unique du produit
   Nome-codice identificativo unico del prodotto
   Unique identifier nome-code for product
   Nome-código de identificaçao único do produto
   - Marca, marque, marca, mark, marca: **Lacunza**
   - Tipo, type, tipo, type, tipo: **Insertable, Appareil insérable, Apparecchio a incasso, Insertable appliance, Aparelho encastrável**
   - Modelo, modèle, modello, model, modelo: **K2-800**

2. **Uso o usos previstos del producto:** Aparato insertable de carga manual, para quemar combustibles sólidos (indicado en instrucciones), cuya función es calentar el espacio en el que está instalado.
   Utilisation prévue du produit: Appareil insérable qui se charge manuellement, conçu pour brûler des combustibles solides (indiqués dans le Manuel d'Instructions), dont la fonction est de chauffer l'espace où il est installé.
   Usi previsti del prodotto: Apparecchio a incasso a carico manuale, per bruciare combustibili solidi (indicati nelle istruzioni), la cui funzione è riscaldare lo spazio in cui è installato.
   Entended uses of the product: Insertable appliance to be loaded by hand and designed to burn solid fuels (indicated in instructions), whose function is to heat the space in which it is installed.
   Utilização prevista do produto: Aparelho encastrável de carga manual, para queimar combustíveis sólidos (indicado nas instruções), cuja função é aquecer o espaço no qual está instalado.

3. Nombre y dirección del fabricante:
   Nom et adresse du fabricant:
   Nome e indirizzo del fabbricante:
   Name and adress of the manufacturer:
   Nome e endereço do fabricante:

   LACUNZA KALOR GROUP S.A.L.
   Pol. Ind. Ibarrea s/n 31800 Alsasua (Navarra) (España)
   Télefono: (0034) 948563511
   Fax: (0034) 948563505
   Email: comercial@lacunza.net

4. Sistema de evaluación y verificación de la constancia de las prestaciones: 3
   Système d'évaluation et contrôle de la constante de performance: 3
   Sistema di valutazione e verifica della costanza della prestazione: 3
   Assessment and verification system for constancy of performance: 3
   Sistema de avaliação e verificação da regularidade do desempenho: 3

5. Organismo Notificado, Laboratoire notifié, Laboratorio notificato, Laboratory notified, Laboratório notificado:
   RRF N° NB1625 Rhein-Ruhr Feuerstäten
   Prüfstelle GmbH
   Am Technologie Park 1 D-45307 ESSEN
   Por el sistema, Selon le system, In base al system, Based on system, Em base ao system : 3.
   Documento emitido (fecha), Numéro du rapport d'essai (date), Numero rapporto di prova (data), Test report number (date), Número relação de prova (data): **29185106 (04-02-2019)**

6. Prestaciones declaradas, Performance déclarée, Prestazioni dichiarate, Services declare, Desempenhos declarados:

Especificaciones técnicas armonizadas, Spécifications techniques armonices, Specifica tecnica armonizzata, Harmonised technical specifications, Especifica técnica harmonizada EN13229:2001/A1:2002/A2:2004/AC:2006/AC:2007		
Características esenciales, Caractéristiques essentielles, Caratteristiche essenziali, Essential features, Características essenciais	**Prestaciones, Performance, Prestazione, Services, Desempenho**	
Reacción al fuego, Resistance au feu, Resistenza al fuoco, Resistance to fire, Resistência ao fogo	**Cumple, Conforme, Conforme, Compliant, Em Conformidade**	
Distancia mínima de seguridad a materiales combustibles, Distance minimum aux matériaux combustibles, Dintanza minima da materiali combustibili, Minimum distance from combustible material, Distância mínimo de materiais combustíveis	**Izquierda, gauche, sinistra, left, esquerda:** **Derecha, droite, diritto, right, direito:** **Trasera, arrière, retro, back, traseira:** **Delantera, avant, fronte, front, frente:** **Encimera, dessus, sopra, above, acima:**	400mm 400mm 400mm 1000mm 750mm
Temperatura humos a potencia térmica nominal, Température des fumées, Temperatura fumi, Fume temperatura, Temperatura dos gases de combustão	**238 °C**	
CO 13% O2	**0.07 %**	
CO 13% O2	**875 mg/m³**	
NOx 13% O2	**108 mg/m³**	
OGC 13% O2	**50 mg/m³**	
PM_{HF}	**18 mg/m³**	
Desprendimiento de sustancias peligrosas, Rejet de substances dangereuses, Rilascio di sostanze pericolose, Release of hazardous substances, Lançamento de substâncias perigosas	**Cumple, Conforme, Conforme, Compliant, Em Conformidade**	
Temperatura superficial, Température de surface, Temperatura superficiale, Surface temperatura, Temperatura superficial	**Cumple, Conforme, Conforme, Compliant, Em Conformidade**	
Seguridad eléctrica, Sécurité électrique, Sicurezza elettrica, Electrical safety, Segurança elétrica	**Cumple, Conforme, Conforme, Compliant, Em Conformidade**	
Presión máxima de servicio (paila), Pression maximale de service, Máxima pressione di esercizio, Maximun operating pressure, Máxima pressão de exercicio	-	
Resistencia mecánica (para soportar una chimenea/un conducto de humos), Resístanse mécanique (pour souvenir la cheminée), Resistenza mecánica (per supportare il camino), Mechanical strength (to support the fireplace), Resistência mecânica (para suportar a chaminé)	**Cumple, Conforme, Conforme, Compliant, Em Conformidade**	
Potencia térmica ambiente, Puissance rendue au milieu, Potenza resa all'ambiente, Power output to the environment, Potência libertada no ambiente	**8.5 kW**	
Potencia térmica agua, Puissance rendue à l'eau, Potenza ceduta all'acqua, Power transferred to wáter, Potência cedida à água	-	
Rendimiento energético, Rendement, Rendimento, Efficiency, Atuação	**78 %**	

Las prestaciones del producto identificado en el punto 1 son conformes con las prestaciones declaradas en el punto 6.
La performance du produit citée au point 1 est conforme à la performance declare au point 6.
La prestazione del prodotto di cui ai punti 1 è conforme alla prestazione dichiarata di cui al punto 6.
The performance of the product referred to in point 1 is consistent with the declared performance in point 6.
As declarações do produto identificado no ponto 1, estão conformes com as prestações declaradas no ponto 6.

La presente declaración de prestaciones se emite bajo la única responsabilidad del fabricante, indicado en el punto 3.
Cette déclaration de performance est délivrée sous la responsabilité exclusive du fabricant cité au point 3.
Si rilascia la presente dichiarazione di prestazione sotto la responsabilità exclusiva del fabricante di cui al punto 3.
This declaration of performance is issued under the manufacturer's sole responsibility referred to in point 3.
É emitida a presente declaraçao de desempenho sob a responsabilidade exclusive do fabricante referido no ponto 3.

LACUNZA
Lacunza Kalor Group S.A.L.
NIF A-31606932
Polígono Industrial Ibarrea s/n
31800 Alsasua (Navarra) Spain

José Julián Garciandía Pellejero
Director Gerente

Alsasua 14-02-2019

8. CE MARK

CE 19	LACUNZA KALOR GROUP S.A.L. Pol. Ind. Ibarrea s/n 31800 Alsasua (Navarra) (Spain) Número, Nombre, Numero, Number, Número : **CH-S-026**
Marca, marque, marca, mark, marca: **Lacunza** Tipo, type, tipo, type, tipo: **Insertable, Appareil insérable, Apparecchio a incasso, Insertable appliance, Aparelho encastrável** Modelo, modèle, modello, model, modelo: **K2-800**	Organismo notificado, Laboratoire notifié, Laboratorio notificato, Laboratory notified, Laboratorio notificado: **RRF N° NB1625**
Chimenea de carga manual, para quemar combustibles sólidos (indicado en instrucciones), cuya función es calentar el espacio en el que está instalada. Appareil insérable qui se charge manuellement, conçu pour brûler des combustibles solides (indiqués dans le Manuel d'Instructions), dont la fonction est de chauffer l'espace où il est installé. Apparecchio a incasso a carico manuale, per bruciare combustibili solidi (indicati nelle istruzioni), la cui funzione è riscaldare lo spazio in cui è installato. Insertable appliance to be loaded by hand and designed to burn solid fuels (indicated in instructions), whose function is to heat the space in which it is installed. Aparelho encastrável de carga manual, para queimar combustíveis sólidos (indicado nas instruções), cuja função é aquecer o espaço no qual está instalado.	
EN13229:2001/A1:2002/A2:2004/AC:2006/AC:2007	
Características esenciales, Caractéristiques essentielles, Caratteristiche essenziali, Essential features, Características essenciais	**Prestaciones, Performance, Prestazione, Services, Desempenho**
Reacción al fuego, Resistance au feu, Resistenza al fuoco, Resistance to fire, Resistência ao fogo	**Cumple, Conforme, Conforme, Compliant, Em Conformidade**
Distancia mínima de seguridad a materiales combustibles, Distance minimum aux matériaux combustibles, Dintanza minima da materiali combustibili, Minimum distance from combustible material, Distância mínimo de materiais combustíveis	**Izquierda, gauche, sinistra, left, esquerda: 400mm** **Derecha, droite, diritto, right, direito: 400mm** Trasera, arrière, retro, back, traseira: **400mm** **Delantera, avant, fronte, front, frente: 1000mm** **Encimera, dessus, sopra, above, acima: 750mm**
Temperatura humos a potencia térmica nominal, Température des fumées, Temperatura fumi, Fume temperatura, Temperatura dos gases de combustão	**238 °C**
Emisión productos combustión, Emisión des produits de combustion, Emisión prodotti combustione, Combustión productos emissions, Emissões de produtos de combustão	**Cumple, Conforme, Conforme, Compliant, Em Conformidade**
Concentración media CO al 13% O2, Concentration moyenne CO al 13% O2, CO concentrazione media di O2%, Average concentration CO to O2%, CO concentração média de O2%	**0.07 %**
Desprendimiento de sustancias peligrosas, Rejet de substances dangereuses, Rilascio di sostanze pericolose, Release of hazardous substances, Lançamento de substâncias perigosas	**Cumple, Conforme, Conforme, Compliant, Em Conformidade**
Temperatura superficial, Température de surface, Temperatura superficiale, Surface temperatura, Temperatura superficial	**Cumple, Conforme, Conforme, Compliant, Em Conformidade**
Seguridad eléctrica, Sécurité électrique, Sicurezza elettrica, Electrical safety, Segurança elétrica	**Cumple, Conforme, Conforme, Compliant, Em Conformidade**
Presión máxima de servicio (paila), Pression maximale de service, Máxima pressione di esercizio, Maximun operating pressure, Máxima pressão de exercício	-
Resistencia mecánica (para soportar una chimenea/un conducto de humos), Resistanse mécanique (pour souvenir la cheminée), Resistenza mecánica (per supportare il camino), Mechanical strength (to support the fireplace), Resistência mecânica (para suportar a chaminé)	**Cumple, Conforme, Conforme, Compliant, Em Conformidade**
Potencia térmica ambiente, Puissance rendue au milieu, Potenza resa all'ambiente, Power output to the environment, Potência libertada no ambiente	**8.5 kW**
Potencia térmica agua, Puissance rendue à l'eau, Potenza ceduta all'acqua, Power transferred to wáter, Potência cedida à água	-
Rendimiento energético, Rendement, Rendimento, Efficiency, Atuação	**78 %**

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