

Inca 80-100 C/V

Instruction Book



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	Inca 80	Inca 100
	Operating appliance	-	Intermittent	Intermittent
	Appliance classification	-	Type BE	Type BE
	Preferred fuel	-	Wood logs (Humidity<25%)	Wood logs (Humidity<25%)
	Indirect heating functionality	-	NO	NO
Values at Nominal Output	Nominal output to atmosphere (Direct) (P_{nom})	kW	15	15.5
	Efficiency at P_{nom} (η_{nom})	%	82	76
	CO emission at 13% O ₂ at P_{nom} (CO_{nom})	mg/m ³	875	1000
	NO _x emission at 13% O ₂ at P_{nom} (NO_{xnom})	mg/m ³	89	88
	OGC emission at 13% O ₂ at P_{nom} (OGC_{nom})	mg/m ³	47	62
	PM emission at 13% O ₂ at P_{nom} (PM_{nom})	mg/m ³	11	31
	Optimum flue draught at P_{nom} (p_{nom})	Pa	12	12
	Gas temperature of flue at P_{nom} (T_{nom})	°C	281	295
	Gas temperature on the flue socket flange at P_{nom}	°C	337	354
	Log load frequency at P_{nom}	h	1	1
	Gas mass flow at P_{nom}	g/s	10.6	15.8
	Wood consumption (beech) at P_{nom}	kg/h	4.2	4.6
	Chimney temperature class	-	T400	T400
	Dimensions of the firebox			
	Width	mm	640	840
	Depth	mm	360	360
	Useful height	mm	525	525
	Maximum length of the logs	cm	60	80
	Volume heated (45W/m ³) at P_{nom}	m ³	333	344
	Capacity of the ashpit	L	2.7	2.7
	Weight	kg	180	220
	Flue socket diameter (d_{out})	mm	200	250
	Voltage (AC)	V	230	230
	Frequency	Hz	50	50

Maximum electricity consumption ($e_{l_{max}}$)	kW	0.275*	0.275*
Minimum electricity consumption ($e_{l_{min}}$)	kW	0,009*	0,009*
Auxiliary electricity consumption in standby mode ($e_{l_{sb}}$)	kW	0,009*	0,009*
Type of heat output/room temperature control	Single stage heat output, no room temperature control		
Energy efficiency class	-	A+	A
Energy efficiency index (EEI)	-	109 / 108*	100 / 99*
Seasonal Energy Efficiency of space heating (η_s)	%	72 / 71*	66 / 65*
* for models with fans (C/V)			

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.

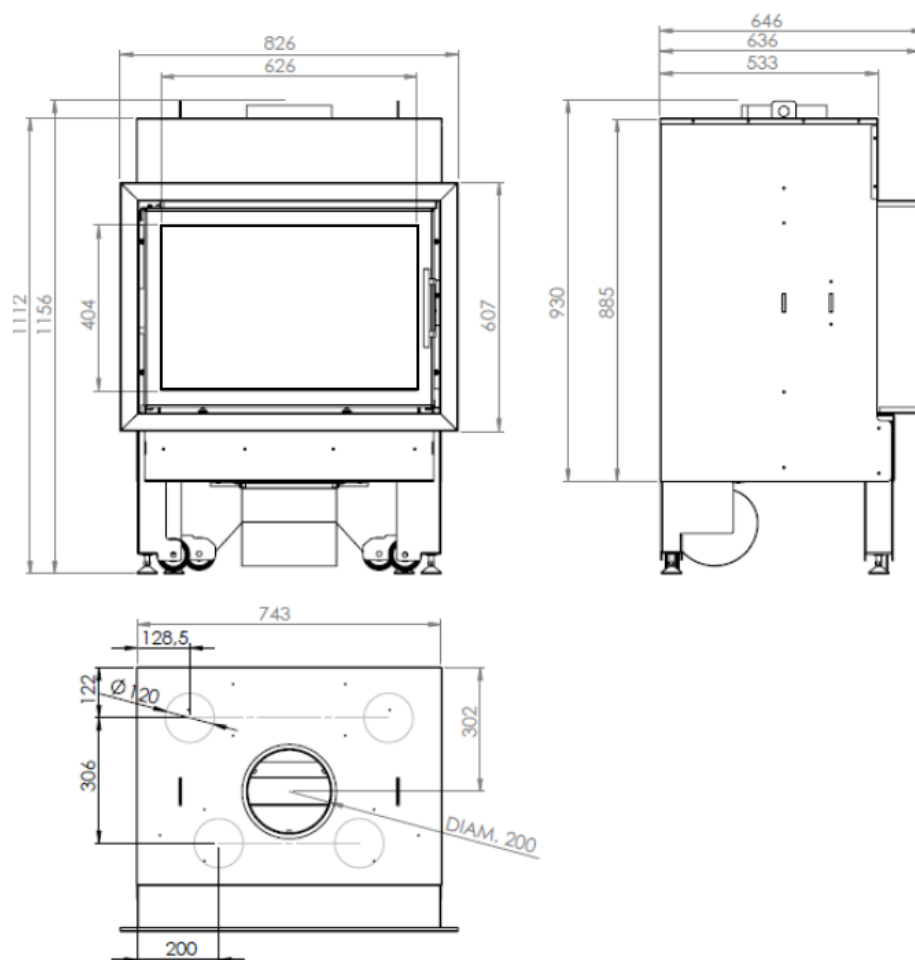


Figure No.1 - Dimensions of the INCA 80 appliance in mm

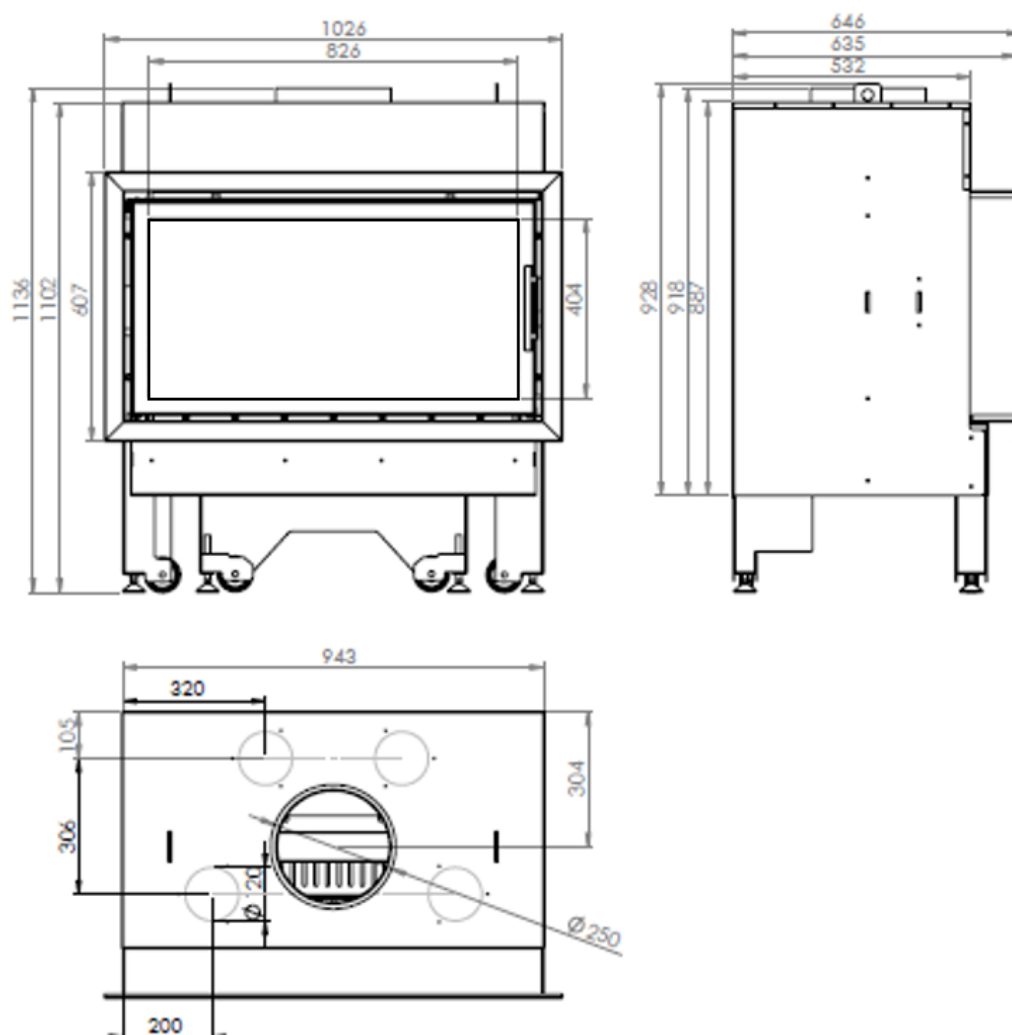


Figure No.2 - Dimensions of the INCA 100 appliance in mm

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 air inlet grilles must be positioned so that they cannot be blocked or closed accidentally.

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)
$P \leq 10\text{kW}$	70
$10 < P \leq 15$	90
$15 < P \leq 20$	120
$20 < P \leq 25$	150
$25 < P \leq 30$	180
$30 < P \leq 35$	210
$P > 35$	240

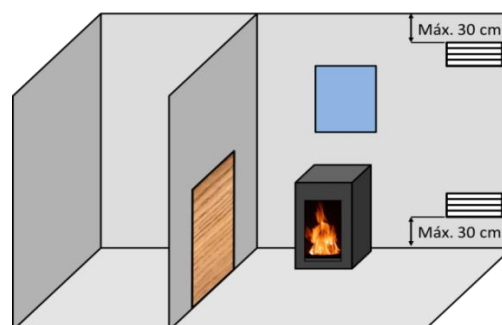


Figure No.3 - Guideline indications for ventilation grilles

In the case of appliances on which it is possible to pipe combustion air in from outdoors (appliances type BE, BF, CA, CM y CC), 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 appliance comes with wheels to help move it into position. In order to move it, it is necessary to make sure that the support legs are raised by turning them with the aid of a spanner. Once in position, lower the legs until the appliance is at the desired height.

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.

When the floor surface (base) is combustible, fit suitable insulation.

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	200
From the left-hand side	200
From the rear	300
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. A safety distance of 25 cm must be left to isolating materials of type M0.

2.3.3. Checks before lighting for the first time

- Make sure that the glass is not broken or damaged.
- Make sure that the flueway is not obstructed with packing or loose parts.
- 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.
- Check that the two deflectors are fitted properly; the lower deflector has four positions with which to open or close the flue to a greater or lesser extent.

2.3.4. Height adjustment and levelling the appliance

The appliance must be perfectly level, horizontally and vertically, both at the front and on the sides (use a spirit level).

The appliance has adjustable legs with which to adjust its height.

IMPORTANT! When it is level and before encasing the appliance, check that the appliance works properly.

2.3.5. Casing

Make sure that the material around the appliance is not flammable or likely to deteriorate as a result of heat (wallpaper, carpet, plastic-based casing, Silestone, etc.).

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

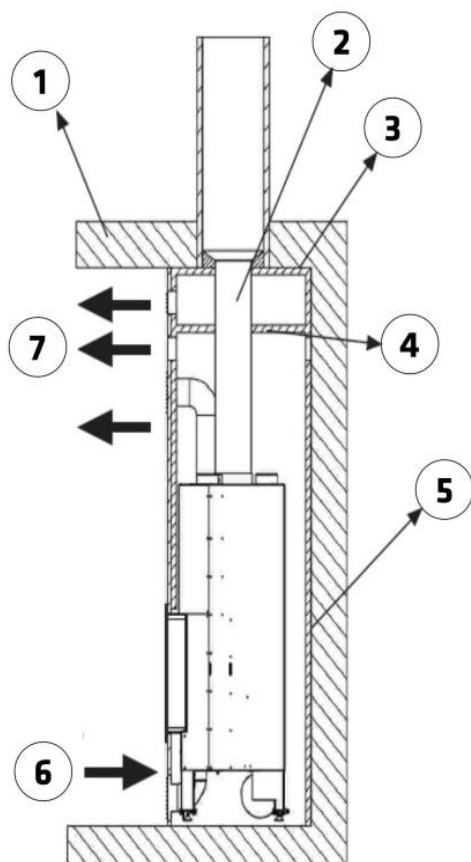


Figure No.4 - Interior diagram of the casing

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 cm²)
- 7 Hot-air outlet (1,000 cm²)

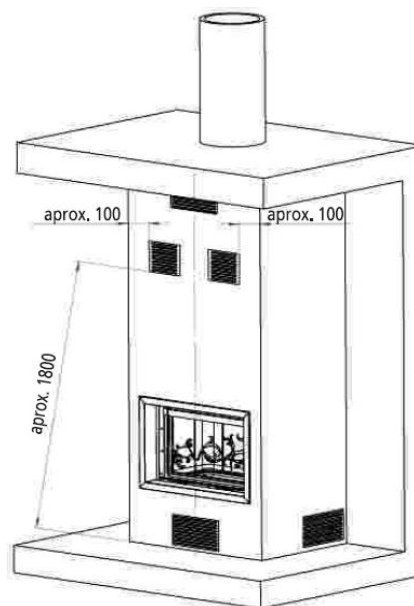


Figure No.5 - Exterior diagram of the casing

In order to enable suitable air circulation and correct operation, the casing must have a fresh-air inlet with a minimum section of 1,000cm² beneath the level of the actual appliance and a hot-air outlet measuring at least 1,000cm² 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.

¡Warning! on appliances on which it is possible to pipe air to the firebox, the hood requires a further air inlet at the bottom, in addition to the 1,000cm² inlet, if the air supply comes from the room in which the appliance is fitted.

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

Warning! The installer must fit the necessary inspection accesses (trap doors, hatches, etc.) so that everything inside the hood that may need maintenance work, cleaning 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 4 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.

- Do not break the scored steel circles completely. Simply bend them in order to facilitate the conduction of heat to the pipe.

- 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)
A	
B	
C	
D	

Figure No.6 - Table showing heat output of the air leaving the appliance

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.

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

120mm leading to the nozzle on the bottom-front of the appliance. 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 ITACA-INCA appliances work properly. There now follows a description and image of each of these options:

Key to combustion-air intake and hot-air output installation option diagrams:

- 1 Hot-air output grille
- 2 Combustion-air intake grille
- 3 piping
- 4 Combustion-air intake nozzle
- 5 Combustion-air intake from outdoors

OPTION A: Combustion-air intake from inside the room and hot-air output by natural convection (without fan).

With this option, it is not necessary to lead the hot air along piping to the hot-air output grilles, as shown in the image, or from the combustion-air intake grille to the combustion-air nozzle that feeds combustion air to the firebox.

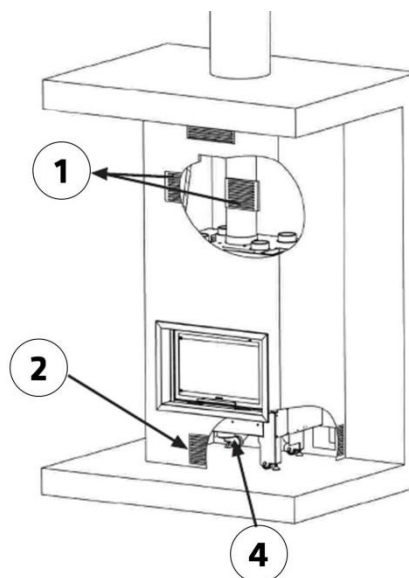


Figure No.7 - Image showing Option A

OPTION B: Combustion-air intake from inside the room and hot-air output by forced convection (with fan).

With this option, the hot air can be led along piping from the hot-air output nozzles on the appliance to the hot-air output grilles on the casing or to other rooms. The air flow required at any given time can also be regulated via the potentiometer on the fan. Up to 4 outputs can be fitted (the nozzles not to be used should be capped). In such cases, the combustion-air intake must be led via piping from the grille on the outside of the casing to the combustion-air intake nozzle so that it does not interfere with the air drawn in by the fan.

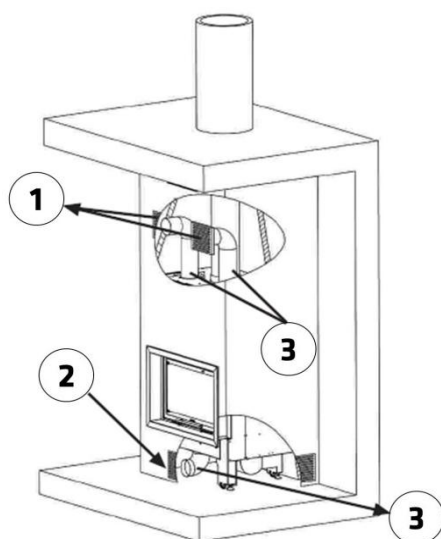


Figure No.8 - Image showing Option B

OPTION C: Combustion-air intake from outside the room and hot-air output by natural convection (without fan).

With this option, the combustion-air intake is led from outside the room in which the appliance is fitted (other room or outdoors) to the combustion-air intake nozzle via piping with a diameter of 120mm and it is not necessary to lead the hot air coming out of the nozzle on top of the appliance to the hot-air output grilles on the casing with piping.

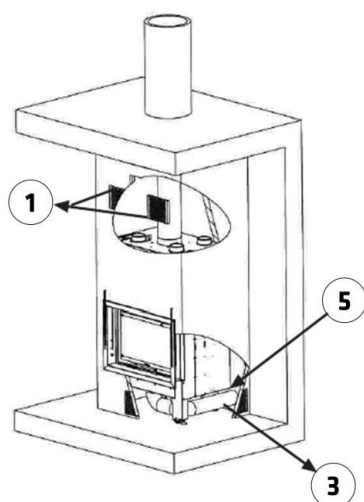


Figure No.9 - Image showing Option C

OPTION D: Combustion-air intake from outside the room and hot-air output by forced convection (with fan).

The installation system for this option is the same as that of the previous option, but also involves leading the hot-air output from the nozzles on top to the hot-air output grilles or to other adjoining rooms via piping with a diameter of 120mm. The nozzles on top of the appliance not to be used should be capped.

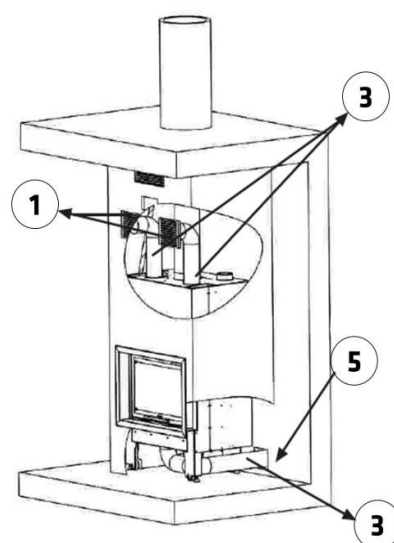


Figure No.10 - Image showing Option D

WARNING!: When the appliance has a fan (C/V option), it is important that the shell is well ventilated through both the upper and lower grilles on the casing. Respect the minimum sections recommended for the grilles (larger grilles are no problem); otherwise, overheating problems may arise inside the shell and excess air temperatures may cause the fan to stop by triggering its overload safety system (in this case, due to excess temperature).

The combustion air intake (through the 120mm-diameter nozzle on the front-bottom of the appliance, which can be piped in from outdoors) **MUST** be fully independent from the fan air intake (through the grilles at the bottom of the

sides of the casing, which draw air in from the room the appliance is fitted in) because they are separate air circuits.

WARNING: In all cases involving piping to lead hot air, the piping must be insulated and tend or slant upwards; never downwards. Bends, bottlenecks and horizontal sections more than 1m long should be avoided as much as possible. Bear in mind that the air circulating along the piping loses speed as it advances due to friction with the walls and the reduction in temperature. The ends of the piping used to lead air must be well sealed with fire sealant or fire cement. We recommend that the pipes used for forced convection do not exceed 4 metres in length.

2.3.9. Exterior Frame. Removal and assembly

If you need to remove the exterior frame from the appliance (casing, transportation, etc.), proceed as follows:

- Unscrew the 6 M6 screws that secure the sides of the frame.



Figure No.11 - Unscrew the 6 screws that secure the exterior frame

- Remove the frame from its housing, being careful not to damage the enamel. Then pull it forwards.
- Perform the removal process in reverse order to refit the frame

2.3.10. Fan-potentiometer connection (only for models C/V)

INCA c/v models (the models with fans) are prepared for connection on the air regulator supplied. The probe and the turbine are already in place.

The appliance has 2 hoses protruding from it:

- PROBE hose (SENSOR), 2 wires.
- Fan hose (M), 3 wires.

The two hoses are connected to the air regulator according to the connection diagram in the ELX AIR POWER auto instruction manual. **The electrical connections will be made by qualified personnel (see instructions in the manual)**

ATTENTION! The 3-wire power hoses for the power supply 230V is not supplied and must be connected by a person qualified to install it.

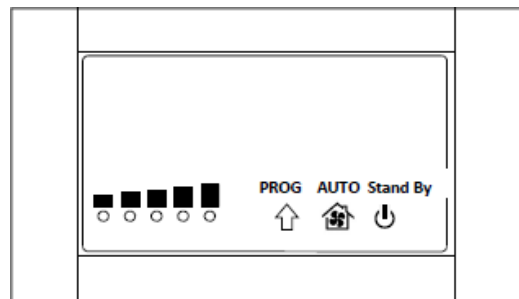


Figure No.12 - Controller of the air regulator ELX AIR POWER-v2

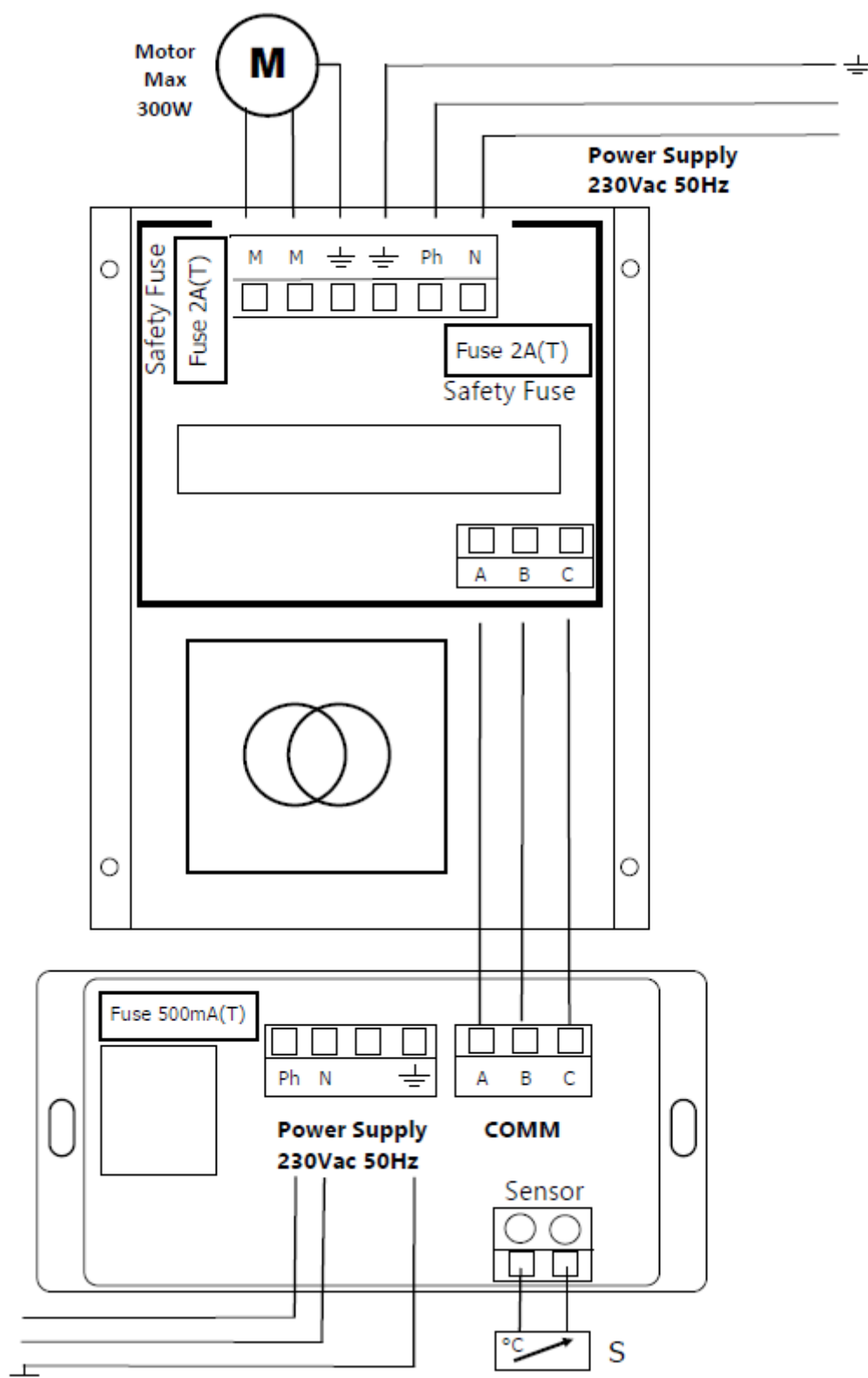


Figure No.13 - Connections to be made in the controller and the power module of the Inca C/V

ATTENTION! The power module, housed in a metal container of dimensions 150x107x64 mm with fixing fins, must be housed in a cold place, where the temperature never exceeds 50 °C. If it is placed inside the cladding, it should always go as close as possible to the vents of the cladding itself to ensure that it is in the coldest place possible.



Figure No.14 - ELX AIR POWER-TRA automatic air regulator power module.

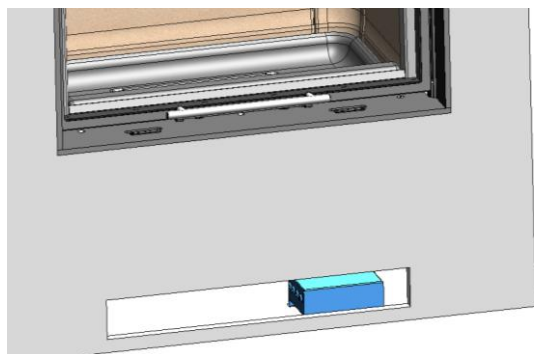


Figure No.15 - Positioning of the power module in front of the front ventilation grille

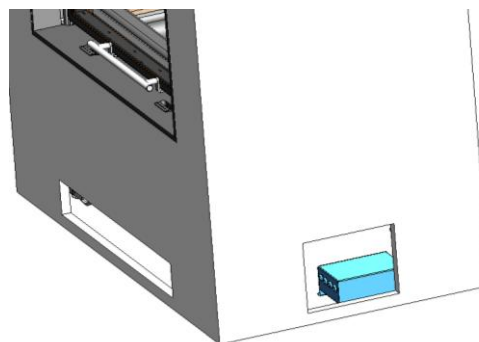


Figure No.16 - Positioning of the power module in front of the side ventilation grille

The temperature probe (SENSOR) is located at the rear of the appliance just at the outlet of the air driven by the turbine. There is access to it through the interior of the fireplace by removing the cast iron base and the screwed lower cover.

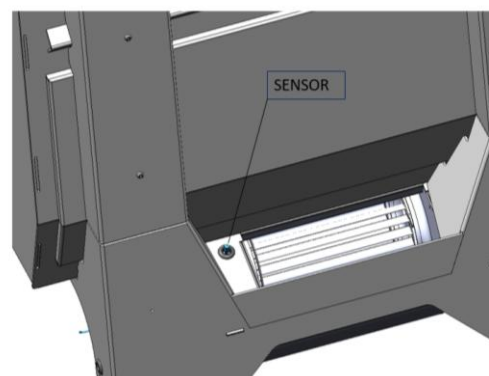
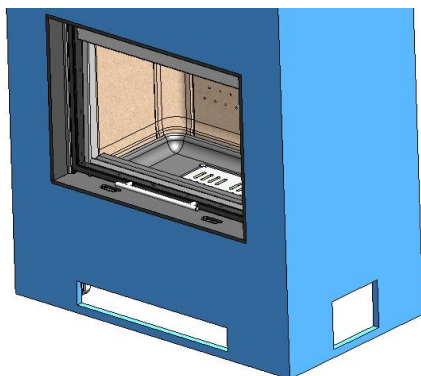


Figure No.17 - Position of the temperature probe (SENSOR) in the turbine air outlet

The air inlet section of the casing has an influence on the operation of the turbine in its automatic mode. The larger the air inlet section, the longer it will take for the turbine to start in automatic mode. On the contrary, the smaller the air inlet section, the less time it will take for the turbine to start up, but it will have a greater risk of reaching the temperature of 75°C, activating the security mode due to its lack of ventilation.

An air inlet section of 1000 cm² is recommended, whether the grille is located

on the front of the appliance, on the right side or on both sides. The air inlet must always be at a lower level than the appliance.



WARNING: the operating temperature of the potentiometer supplied by Lacunza on ITACA C/V models (with fan) is from 0 to 40°C. Be particularly careful when choosing the place to fit it so that it cannot be damaged by temperatures of over 40°C. Fully insulate the potentiometer in order not to encounter this problem.

Read the potentiometer instruction manual.

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 90° bends, due to the great loss of draught they cause, and reduce 45° bends down to an absolute minimum. Each 45° 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.

The appliance is designed to operate under controlled draught conditions. The appliance must operate at a chimney draught of between 12Pa and 15Pa. To ensure this draught, an automatic draught moderator must be installed in the flue. Uncontrolled draught operation can lead to quick damage of the appliance, which will not be covered by the warranty.

The flue must not rest its weight on the appliance, as this could damage the worktop.

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.

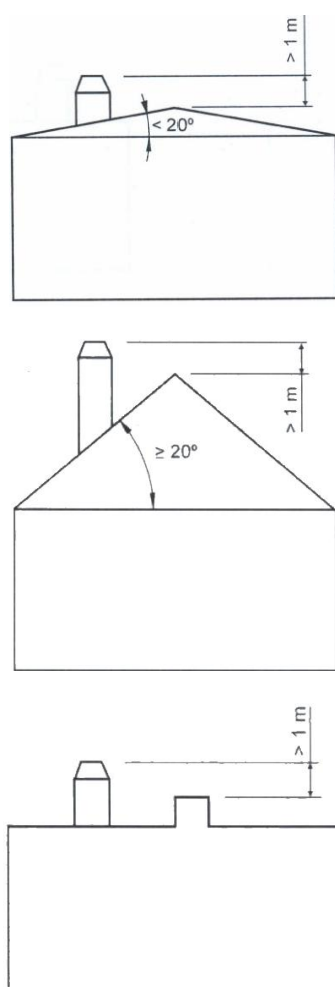


Figure No.18 - Distances between chimney crown and roof ridge

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.

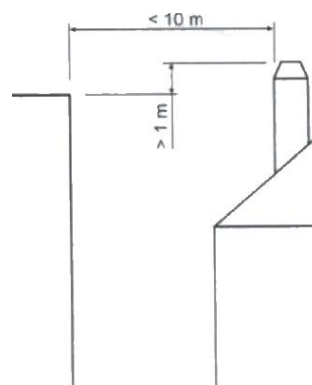


Figure No.19 - Distances between the chimney crown and objects within a 10m radius

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

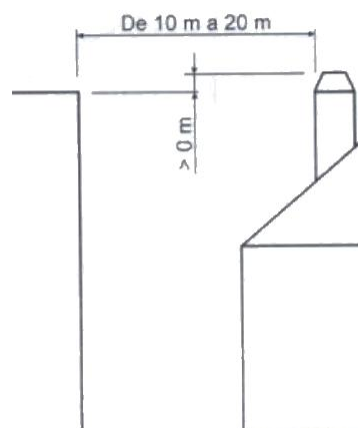


Figure No.20 - Distances between the chimney crown and objects within a radius of between 10 and 20m

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.).
- Never use gasoline, gasoline-type lamp fuel, paraffin, charcoal lighter fluid, ethyl alcohol or similar liquids to ignite or rekindle a fire in the equipment. Keep all such liquids away from the equipment while it is in use.

Green and reprocessed wood may cause chimney fires.

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

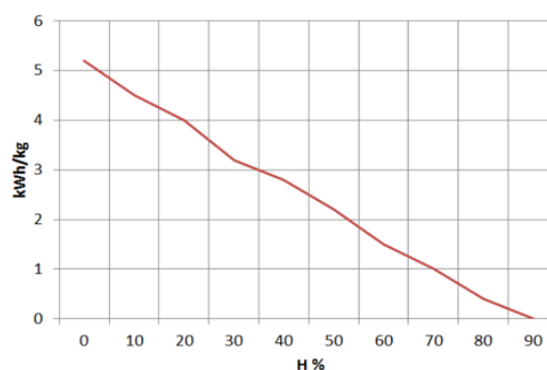


Figure No.21 - Relationship between firewood humidity and heat output.

3.2. Description of the parts of the appliance

3.2.1. Operating components

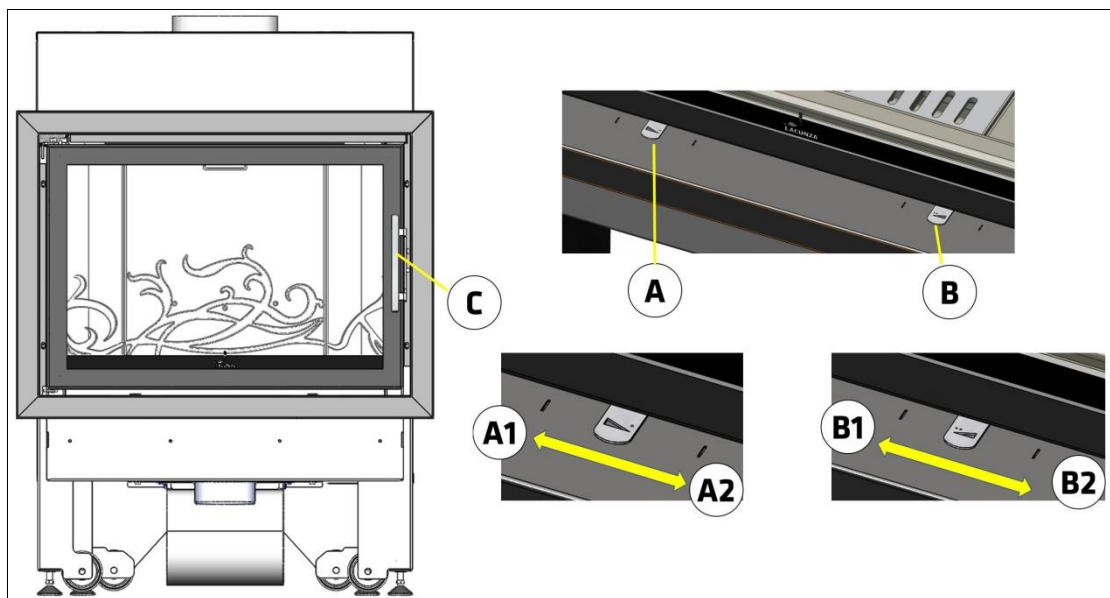


Figure No.22 - Operating components on the appliance

- A: Primary air intake
 - A1 open (move towards the + symbol)
 - A2 closed (move towards the - symbol)
- B: Secondary air intake
 - B1 open (move towards the + symbol)
 - B2 closed (move towards the - symbol)
- C: Firebox door handle

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 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 gently, 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 height of the load shall be approximately one third of the height of the firebox.

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. The use of wood with non-recommended humidity levels will quickly damage the vermiculite parts.

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.

Double-combustion air intake

By opening this inlet, air enters 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.

On Itaca models, the double-combustion air intake is the same as the secondary-air intake (both air intakes are controlled through the same inlet at the same time).

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.

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 and Double Combustion Intakes open.

In class B or BE appliances (without combustion air ducting from the street), when the appliance is not in use, the appliance-flue duct assembly may represent a heat leakage route to the street. When the appliance is not in use, it is advisable to leave the air inlet registers to the combustion chamber closed to minimise these energy losses.

3.6. Removing ash

Following sustained use of the appliance, it is necessary to remove the ash from the firebox. Remove the ashpit box when cold or using something to prevent yourself from getting burned (glove).

Never throw hot embers into the rubbish.

Access the ashpit by opening the door on the appliance.

3.7. Deflectors

The appliance has an updraught-regulating flapper valve on the flue socket. This can be used to modify the section through which the gases pass and, consequently, control the updraught.

The appliance has 1 (2) deflector/s.

The upper one is fixed, whilst the middle and lower ones can be dismantled (the lower one has 4 positions in order to adapt it better to the flue draught - provided there is minimum updraught). Position 1, more closed (greater resistance to smoke evacuation, greater retention and, therefore, greater efficiency). Position 4, more open (to be used when there are smoke downdraught problems caused by insufficient updraught).

You can see how they are fitted and regulated in the following pictures.

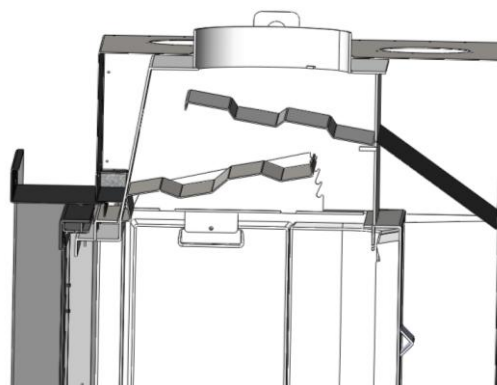


Figure No.23 - Section view with the 2 deflectors fitted

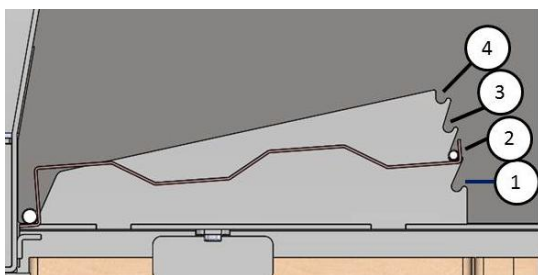


Figure No.24 - Different lower deflector positions on the Inca

Removing the Inca deflectors

First remove the lower deflector by lifting it until it is clear of the tabs that keep it in position. Then tilt one side downwards, lower and pull out.

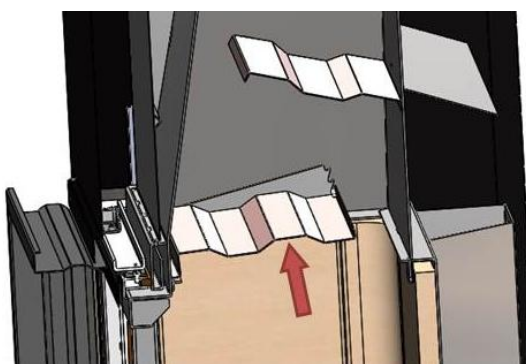


Figure No.25 - Dismantling the lower Inca deflector

Soot falling from the flue may build up on the deflector.

Then remove the second deflector by drawing it forwards and allowing it to drop at the rear.

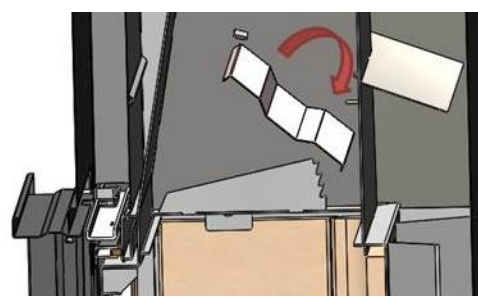
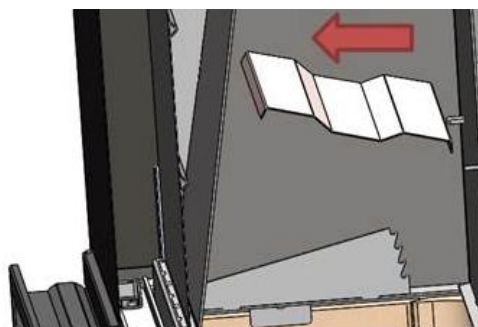


Figure No.26 - Removing the middle deflector on the Inca

Soot falling from the flue may build up on the deflector.

3.8. Opening the door



Figure No.27 - Opening the door

3.9. Electrical system. Functioning.

3.9.1. Forced convection. Turbine:

Inca C/V models have a turbine 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.

Description:

Inca appliances with the C/V option (forced ventilation with turbine) come with the following parts:

Parts and characteristics:

- **Turbine:**
 - Maximum input power: 275/285 W, 230V, 50/60Hz.
 - Speed (r.p.m.): 1250
 - Air flow (m3/h): 820/910
- **Probe:** probe supplied and an NTC10K with co-molded cable 2000mm.
- **Air regulator**
Automatic/progressive ELX AIR POWER Auto: see technical data in the manual supplied

Potentiometer operation:

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

3.9.2. Automatic / progressive air regulator operation:

- **Operation:** The device is switched off when the standby LED is lit.

The controller has an automatic function  and a progressive automatic function,  which are activated by pressing the corresponding button.

- **Automatic function:**

The motor starts when the probe temperature is $> 40^{\circ}\text{C}$. The motor activates at the first speed. Press the button  to increase the speed.

- **Automatic progressive function**

The motor starts when the probe temperature is $> 40^{\circ}\text{C}$. The change in temperature at this point automatically regulates the motor speed progressively, increasing when the temperature rises and decreasing when it falls.

- **Safety function**

A safety start occurs at maximum power when a temperature above 75°C is present on the probe (S) even with the device off. The regulator is activated at the maximum dissipated speed, the excess temperature passes to automatic operation.

- **Remote control**

The remote control replicates the functions present on the regulator itself.

- **Probe malfunction**

In the event of a probe malfunction, the device allows the motor to operate in Automatic mode, this anomaly is signaled by the flashing LED; replace the probe with the device off and disconnected from the mains.

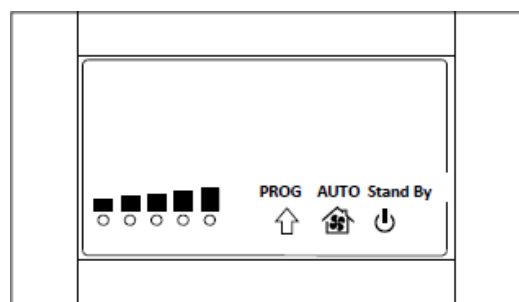


Figure No.28 - Itaca air regulator automatic/prog display

For more information, see the ELX AIR POWER-v2 air regulator instruction manual.

The remote control of some TV brands may interfere with the potentiometer sensor and change its operation. To avoid possible interference, it is recommended to place the potentiometer in a place away from the TV.

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.

On central-heating appliances, clean the walls of soot (creosote) in order to enhance performance.

4.1.2. Inside the appliance

The inside of the firebox can also be accessed from the bottom by extracting-pushing up the cast-iron grille and removing the ashpit. Clean the area of ash through the hollow left after removal (use a vacuum cleaner if necessary). The cast-iron base can also be extracted if necessary.

Clean the firebox area of ash. Clean the deflectors, where soot may build up.

4.1.3. 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.

4.1.4. Enamelled-steel parts

Use a damp cloth with neutral soap to clean the enamelled-steel parts and dry immediately. Do not use abrasive, corrosive, chlorine-based or acid-based products to clean the enamelled-steel parts; they could damage the enamel.

4.1.5. Firebox glass

To keep the glass as clean as possible for as long as possible, the secondary air register should be kept open. However, over the hours of use, the glass may become dirty. To clean it, we will use specific degreasing products or dry cleaning products for this task.

The cleaning should be carried out with the glass cold and taking care not to apply the glass cleaner directly on the glass as, if it comes into contact with the door's closing cord, it may deteriorate. Put the cleaning product on the cloth.

Attention, never let the product drip into the lower part of the glass. The accumulation of the cleaning product, with soot or ash residues, can damage the screen printing on the glass.

Note: If we use the appliance in draught conditions higher than 15Pa or burn more wood (per hour) than those indicated in table 1.1, we will subject the appliance to working conditions higher than those designed for it. This can lead to aggressive fouling of the glass (white halo), which cannot be cleaned by the traditional method.

Caution, the vitro ceramic glass is prepared to support 700°C. Never let burning woods or combustion flame beating against the glass for prolonged periods of time. In this case, the glass would be submit to temperatures above 750°C, this could change the internal structure of the glass and make it opaque (irreversible phenomenon).



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-authorized replacement parts be used. Lacunza accepts no liability for any modification to the product which it has not authorized.

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.**

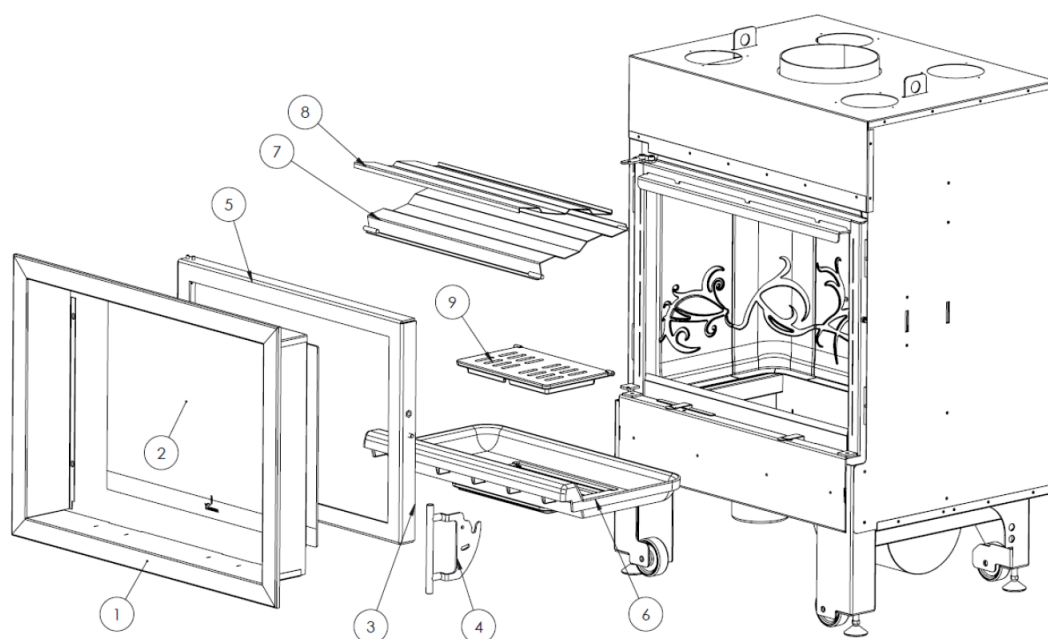
5. TROUBLESHOOTING



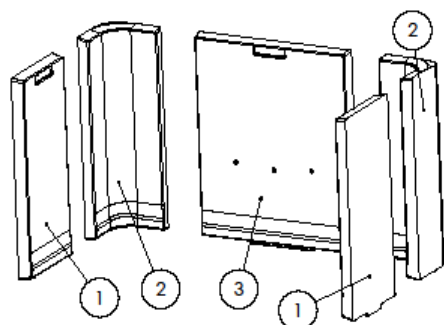
This symbol means that a qualified professional should be called to perform the operation.

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.

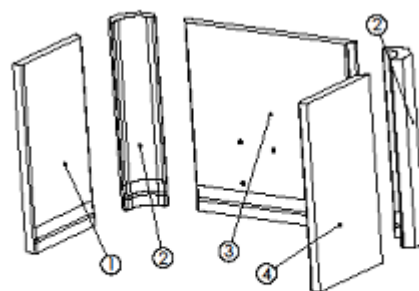
6. BASIC BREAKDOWNS



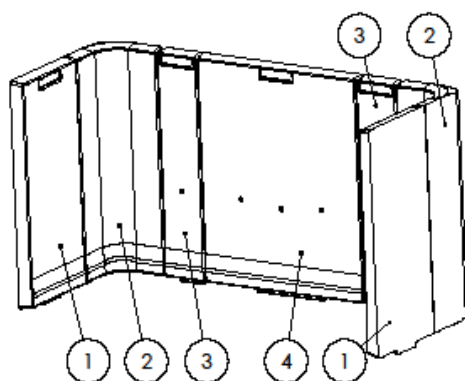
Nº	Denominación	Cant.	CODIGO
1	Marco exterior Inca 80	1	504130000003
	Marco exterior Inca 100	1	504150000003
2	Cristal puerta Inca 80	1	504130000001
	Cristal puerta Inca 100	1	504150000001
3	Cordón cerámico 15x10mm puerta Inca 80	3	504000000068
	Cordón cerámico 15x10mm puerta Inca 100	4	504000000068
4	Manilla Completa Inca Otazu	1	504000000066
5	Puerta Inca 80	1	504130000010
	Puerta Inca 100	1	504150000049
6	Base de fundicion Inca Itaca 80	1	504000000060
	Base de fundicion Inca Itaca 100	1	504000000059
7	Deflector inferior ITACA 80	1	504120000004
	Deflector inferior ITACA 100	1	504140000002
8	Deflector INCA 80 SUP.	1	504130000002
	Deflector INCA 100 SUP.	1	504150000002
9	Parrilla base hogar Itaca 80-100-120	1	504000000058



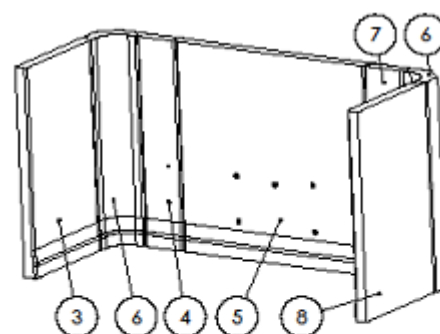
Nº	N_PLANO	DENOMINACION	CANT.
1	50400000847	Refractario lateral izqdo-dcho ITACA-INCA Liso	2
2	50400000846	Refractario esquina izqdo-dcho ITACA-INCA Liso	2
3	50400000848	Refractario trasero ITACA-INCA Liso	1



N.º	Código	Denominación	Cant.
1	50400000849	Refractario lateral izdo. ITACA INCA Vermiculita	1
2	50400000851	Refractaria esquina izdo-dcho ITACA Vermiculita	2
3	50400000938	Refractario trasero INCA Vermiculita	1
4	50400000850	Refractario lateral dcho. ITACA INCA Vermiculita	1



Nº	N_PLANO	DENOMINACION	CANT.
1	50400000847	Refractario lateral izqdo-dcho ITACA-INCA Liso	2
2	50400000846	Refractario esquina izqdo-dcho ITACA-INCA Liso	2
3	50400000842	Refractario trasero ITACA-INCA 100 Liso	2
4	50400000848	Refractario trasero ITACA-INCA Liso	1



N.º	Código	Denominación	Cant.
3	50400000849	Refractario lateral izdo. ITACA INCA Vermiculita	1
4	50400000853	Refractario trasero izdo ITACA-INCA 100-120 Vermiculita	1
5	50400000852	Refractario trasero INCA Vermiculita	1
6	50400000851	Refractario esquina izdo-dcho ITACA Vermiculita	2
7	50400000854	Refractario trasero dcho ITACA 100-120 Vermiculita	1
8	50400000850	Refractario lateral DCHO ITACA-INCA Vermiculita	1

7. PRODUCT RECYCLING

The recycling of the appliance is the exclusive responsibility of the owner, who must act in compliance with the laws in force in his country regarding safety, respect and protection of the environment. At the end of its useful life, the product must not be disposed of with urban waste.

It can be delivered to the specific selective collection centers set up by the municipalities, or to retailers who offer this service. The selective disposal of the product avoids possible negative consequences for the environment and for health and makes it possible to recover the materials of which it is composed, thus obtaining significant savings in terms of energy and resources.

It can be disassembled (the parts are assembled with screws or rivets) and the components can be deposited in their corresponding recycling channels. The components of the appliance are: steel, cast iron, glass, insulating materials, electrical material, etc.

8. DECLARATION OF PERFORMANCE



CH-S-009

DECLARACIÓN DE PRESTACIONES Conforme al R. E. Productos Construcción (UE) N° 305/2011
DÉCLARATION DE PERFORMANCE Selon le Règlement (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
DECLARAÇÃO 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 identificação único do produto
 - Marca, marque, marca, mark, marca: **Lacunza**
 - Tipo, type, tipo, type, tipo: **Monobloque, Appareil insérable, Apparecchio a incasso, Insertable appliance, Aparelho encastrável**
 - Modelo, modèle, modello, model, modelo: **INCA80, INCA80C/V, INCA80V, INCA80VC/V**
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: **LACUNZA KALOR GROUP S.A.L.**
 Nom et adresse du fabricant: **Pol. Ind. Ibarrea s/n 31800 Alsasua (Navarra) (España)**
 Nome e indirizzo del fabbricante: **Téléfono: (0034) 948563511**
 Name and adress of the manufacturer: **Fax: (0034) 948563505**
 Nome e endereço do fabricante: **Email: comercial@lacunza.net**
4. Sistema de evaluación y verificación de la constancia de las prestaciones: 3
 Système d'évaluation et contrôle de la constance 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 Feuerstätten
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): **29143589 (10-07-2014)**

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

Especificaciones técnicas armonizadas, Spécifications techniques harmonisées, 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, Distanza minima da materiali combustibili, Minimum distance from combustible material, Distância mínimo de materiais combustíveis	<table> <tr> <td>Izquierda, gauche, sinistra, left, esquerda:</td><td>200mm</td></tr> <tr> <td>Derecha, droite, diritto, right, direito:</td><td>200mm</td></tr> <tr> <td>Trasera, arrière, retro, back, traseira:</td><td>300mm</td></tr> <tr> <td>Delantera, avant, fronte, front, frente:</td><td>1000mm</td></tr> <tr> <td>Encimera, dessus, sopra, above, acima:</td><td>750mm</td></tr> </table>	Izquierda, gauche, sinistra, left, esquerda:	200mm	Derecha, droite, diritto, right, direito:	200mm	Trasera, arrière, retro, back, traseira:	300mm	Delantera, avant, fronte, front, frente:	1000mm	Encimera, dessus, sopra, above, acima:	750mm
Izquierda, gauche, sinistra, left, esquerda:	200mm										
Derecha, droite, diritto, right, direito:	200mm										
Trasera, arrière, retro, back, traseira:	300mm										
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	281 °C										
Emisión de productos de combustión, Emission des produits de combustion, Emission 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, Maximum operating pressure, Máxima pressão de exercício	-										
Resistencia mecánica (para soportar una chimenea/un conducto de humos), Résistance mécanique (pour soutenir 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	15 kW										
Potencia térmica agua, Puissance rendue à l'eau, Potenza ceduta all'acqua, Power transferred to water, Potência cedida à água	-										
Rendimiento energético, Rendement, Rendimento, Efficiency, Atuação	82 %										

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 déclarée au point 6.

La prestazione del prodotto di cui al punto 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 esclusiva 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 declaração de desempenho sob a responsabilidade exclusiva do fabricante referido no ponto 3.



José Julián Garcandía Pellejero
Director Gerente

Alsasua 01-07-2013



CH-S-010

DECLARACIÓN DE PRESTACIONES Conforme al R. E. Productos Construcción (UE) Nº 305/2011

DÉCLARATION DE PERFORMANCE Selon le Règlement (UE) Nº 305/2011

DICHIARAZIONE DI PRESTAZIONE In base al Regolamento (UE) Nº 305/2011

DECLARATION OF PERFORMANCE According to Regulation (UE) Nº 305/2011

DECLARAÇÃO DE PRESTAÇÕES Em base com o Regulamento (UE) Nº 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 identificação 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: **INCA100, INCA100C/V, INCA100V, INCA100VC/V**
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 SA 31800 Alsasua (Navarra) (España)
Téléfono: (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:
SGS NEDERLAND B.V. Nº 0608
Leemansweg 51
6827 BX Arnhem (The Netherlands)
 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): **EZKA/2019-06/00005-1 (23-10-2019)**

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/A2:2004/AC:2007		
Características esenciales, Caractéristiques essentielles, Caratteristiche essenziali, Essential features, Características essenciais	Prestaciones, Performance, Prestazione, Services, Desempenho	
Reacción al fuego, Réaction au feu, Reazione al fuoco, Reaction to fire, Reação ao fogo	Cumple, Conforme, Conforme, Compliant, Em Conformidade	
Distancia mínima de seguridad a materiales combustibles, Distance minimum aux matériaux combustibles, Distanza 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:	200mm 200mm 300mm 1000mm 750mm
Temperatura humos a potencia térmica nominal, Température des fumées, Temperatura fumi, Fume temperatura, Temperatura dos gases de combustão	295 °C	
Emission, Emission, Emissione, Emissão, Emission, CO 13% O2	0,08 %	
Emission, Emission, Emissione, Emissão, Emission, CO 13% O2	1000 mg/Nm³	
Emission, Emission, Emissione, Emissão, Emission, NOx 13% O2	88 mg/Nm³	
Emission, Emission, Emissione, Emissão, Emission, OGC 13% O2	62 mg/Nm³	
Emission, Emission, Emissione, Emissão, Emission, PM 13% O2	31 mg/Nm³	
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), Resistence mécanique (pour soutenir la cheminée), Resistenza meccanica (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	15,5 kW	
Potencia térmica agua, Puissance rendue à l'eau, Potenza ceduta all'acqua, Power transferred to water, Potência cedida à água	-	
Rendimiento energético, Rendement, Rendimento, Efficiency, Atuação	76 %	

Las prestaciones del producto identificado en el punto 1 son conformes con las prestaciones declaradas en el punto 6.

La performance du produit cité 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 esclusiva del fabbricante 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 declaração de desempenho sob a responsabilidade exclusiva do fabricante referido no ponto 3.



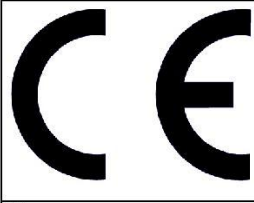
Lacunza Kolor Group S.A.L.
NIF A-31606932
Polígono Industrial Ibañeta s/n
31800 Alsasua (Navarra) Spain



José Julián Garcandía Pellejero
Director Gerente

Alsasua 04-01-2022

9. CE MARK

	LACUNZA KALOR GROUP S.A.L. Pol. Ind. Ibarrea s/n 31800 Alsasua (Navarra) (Spain)
08 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: Inca 80, Inca 80 C/V, Inca 80 V, Inca 80 V C/V	Organismo notificado, Laboratoire notifié, Laboratorio notificato, Laboratory notified, Laboratório 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 Reacción al fuego, Resistance au feu, Resistenza al fuoco, Resistance to fire, Resistência ao fogo	Prestaciones, Performance, Prestazione, Services, Desempenho Cumple, Conforme, Conforme, Compliant, Em Conformidade
Distancia mínima de seguridad a materiales combustibles, Distance minimum aux matériaux combustibles, Distanza minima da materiali combustibili, Minimum distance from combustible material, Distância mínima de materiais combustíveis	Izquierda, gauche, sinistra, left, esquerda: 200mm Derecha, droite, diritto, right, direito: 200mm Trasera, arrière, retro, back, traseira: 300mm 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	281 °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, Maximum operating pressure, Máxima pressão de exercício	-
Resistencia mecánica (para soportar una chimenea/un conducto de humos), Resistence mécanique (pour soutenir 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	15 kW
Potencia térmica agua, Puissance rendue à l'eau, Potenza ceduta all'acqua, Power transferred to water, Potência cedida à água	-
Rendimiento energético, Rendement, Rendimento, Efficiency, Atuação	82 %

		LACUNZA KALOR GROUP S.A.L. Pol. Ind. Ibarrea 5A 31800 Alsasua (Navarra) (Spain)
08		Número, Nombre, Numero, Number, Número: CH-S-010
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: Inca 100, Inca 100 C/V, Inca 100 V, Inca 100 V C/V		Organismo notificado, Laboratoire notifié, Laboratorio notificato, Laboratory notified, Laboratorio notificado: SGS NEDERLAND B.V. Nº 0608
Aparato Tipo, Type d'appareil, Tipo di apparecchio, Apparatus Type, Tipo de aparelho: BE		
Chimenea de carga manual, para quemar combustibles sólidos (indicado en instrucciones), cuya función es calentar el espacio en el que está instalada. Funcionamiento Intermitente. Para conducto humos no compartido. 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. Fonctionnement intermittent. Pour conduit non partagé. Apparecchio a incasso a carico manuale, per bruciare combustibili solidi (indicati nelle istruzioni), la cui funzione è riscaldare lo spazio in cui è installato. Funzionamento intermittente. Per condotto non condiviso. 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. Intermittent operation. For non-shared conduit. Aparelho encastrável de carga manual, para queimar combustíveis sólidos (indicado nas instruções), cuja função é aquecer o espaço no qual está instalado. Operação intermitente. Para conduíte não compartilhado.		
EN13229:2001/A2:2004/AC:2007		
Características esenciales, Caractéristiques essentielles, Caratteristiche essenziali, Essential features, Características essenciais		Prestaciones, Performance, Prestazione, Services, Desempenho
Reacción al fuego, Réaction au feu, Reazione al fuoco, Reaction to fire, Reação ao fogo		Cumple, Conforme, Conforme, Compliant, Em Conformidade
Distancia mínima de seguridad a materiales combustibles, Distance minimum aux matériaux combustibles, Distanza minima da materiali combustibili, Minimum distance from combustible material, Distância mínimo de materiais combustíveis	Izquierda, gauche, sinistra, left, esquerda: 200mm Derecha, droite, diritto, right, direito: 200mm Trasera, arrière, retro, back, traseira: 300mm 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	295 °C	
Emisión productos combustión, Émission des produits de combustion, Emisión prodotti combustione, Combustión productos emissions, Emissões de produtos de combustão	Cumple, Conforme, Conforme, Compliant, Em Conformidade	
Emisión, Emission, Emissione, Emissão, Emission, CO 13% O2	0,08 %	
Emisión, Emission, Emissione, Emissão, Emission, CO 13% O2	1000 mg/Nm³	
Emisión, Emission, Emissione, Emissão, Emission, NOx 13% O2	88 mg/Nm³	
Emisión, Emission, Emissione, Emissão, Emission, OGC 13% O2	62 mg/Nm³	
Emisión, Emission, Emissione, Emissão, Emission, PM 13% O2	31 mg/Nm³	
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	
Resistencia mecánica (para soportar una chimenea/un conducto de humos), Résistance mécanique (pour soutenir 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	15,5 kW	
Potencia térmica agua, Puissance rendue à l'eau, Potenza ceduta all'acqua, Power transferred to water, Potência cedida à água	-	
Rendimiento energético, Rendement, Rendimento, Efficiency, Atuação	76 %	

LACUNZA KALOR GROUP S.A.L

Pol. Ind. Ibarrea 5A

31800 Alsasua (Navarra) Spain

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e-mail: comercial@lacunza.net

Website: www.lacunza.net

EDITION: 12

