

INSTRUCTIONS MANUAL FOR USE AND MAINTENANCE

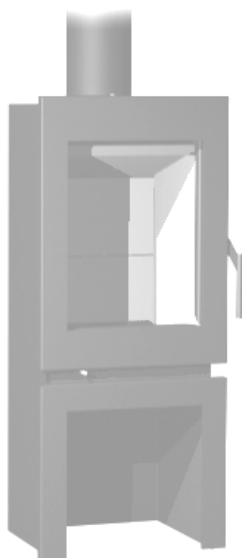
Models:



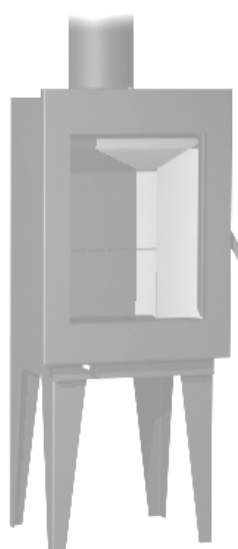
ATENEA



HELIOS



MAIA Cube



MAIA Slim

Cocinas CARBEL, S.L.
C/ Ciudad de Cartagena, 22
46988 Polígono Industrial Fuente de Jarro (Paterna)
Valencia
Tel. (+34) 96 1340716
E-mail: carbel@carbel.net

NOTE FROM THE MANUFACTURER

Thank you for choosing one of our models. Please read this manual carefully. It has been written to give you tips on installation, use and maintenance. If you need further clarification, please contact your dealer or the manufacturer directly.

INSTALLATION

All our models are designed and manufactured for optimal performance. However the operation and performance you get will depend largely on the installation.

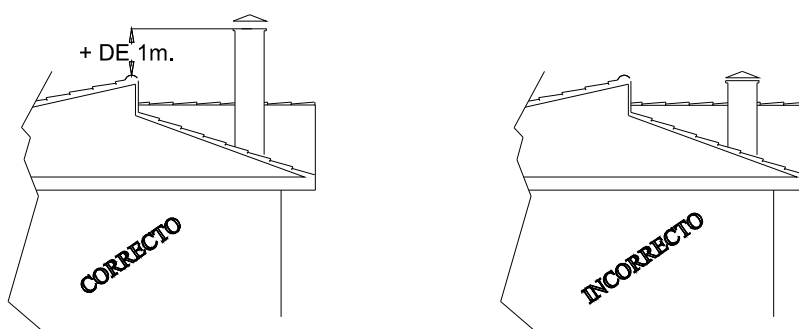
General installation instructions

The installation of the appliance must comply with all local regulations, including those that refer to national and European standards.

Instructions for the chimney

Correct operation depends on the chimney draught. Tips for optimal performance:

- The woodburner must be connected to a flue that guarantees sufficient chimney draught.
- The flue must have sufficient height (not less than 4 m) and should extend at least one metre beyond the maximum height of the building and other surrounding buildings, trees and other obstacles in a minimum radius of 10 m.



- The diameter of the flue of the appliance is ideal for keeping a good draught; do not reduce said diameter if at all possible.
- Do not connect several appliances to the same chimney.
- The chimney should run through the interior of the building. Install insulated double-walled pipes when the chimney flue runs outside the building.
- For the fireplace flue to work correctly, the room must have an outside air inlet that is at least sufficient to replenish the volume of air that comes out of the chimney flue. In well-insulated houses with airtight joinery, an air inlet must be made from the exterior. When air inlet vents are installed, they must be located in such a way that they cannot be blocked.



Warning. In homes without the appropriate outside air inlet, extraction fans (e.g. Kitchen extractors) can cause problematic reverse chimney draughts.

- When the flue has to have angles or bends, avoid horizontal or downward sections. You must plan for the cleaning of the flue and, if necessary, install pipes with access holes or cleaning hatches in sections that are not easily accessed.
 - When a metal chimney is fitted inside a brick chimney, it must exceed the height of the latter and protrude a few centimetres at the top.
 - The installation of the pipe and cap must strictly **prevent water from getting into the appliance on rainy days**. Water causes more damage to woodburners than the high combustion temperatures for which they are prepared.
- When the pipes run through the inside of the home or a brick chimney, they should be mounted as shown in Figure 1 to prevent liquids produced by the condensation of the gases flowing through the joints and out of the pipes. If a pipe section runs outside the building it must be mounted in the direction shown in Figure 2 to prevent rainwater draining down the pipe and entering into the pipe interior through the joints.

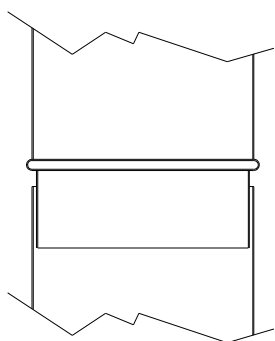


Figure 1.
Correct direction of the pipes inside the home. The liquids produced by the condensation of the gases do not flow through the joints and out of the pipes.

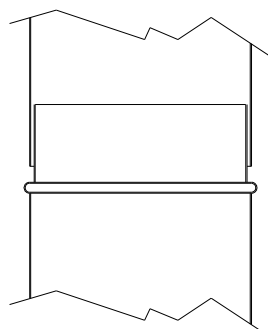


Figure 2.
Correct direction of the pipes outside the home. Rainwater does not enter into the pipe through the joints.

EXTERIOR AIR INLET

For the fireplace draught to work correctly, the room must have an outside air inlet that is at least sufficient to replenish the volume of air that comes out of the chimney flue.

LIGHTING A FIRE

Important: the fire must be lit using thin, dry wood.

1. Load a generous amount of firewood, placing a layer of wood chips or thin firewood and another layer of thicker wood on top.
2. Light the first layer of wood chips or thin wood using fire-lighters or special lighting products, if necessary.
3. Close the door and open the air inlet so that enough air can enter for the fire to light quickly. If necessary leave the door slightly ajar to help the fire light.
4. After a few minutes, once the wood is well-lit, adjust the air inlet. If you find that the volume of flames decreases or the fire tends to go out and the smoke inside the stove increases, open the air intake again for as long as necessary.

When you reload with more wood, if there are not enough flames or embers to light the new load of wood quickly, repeat steps 3 and 4.



Warning.-

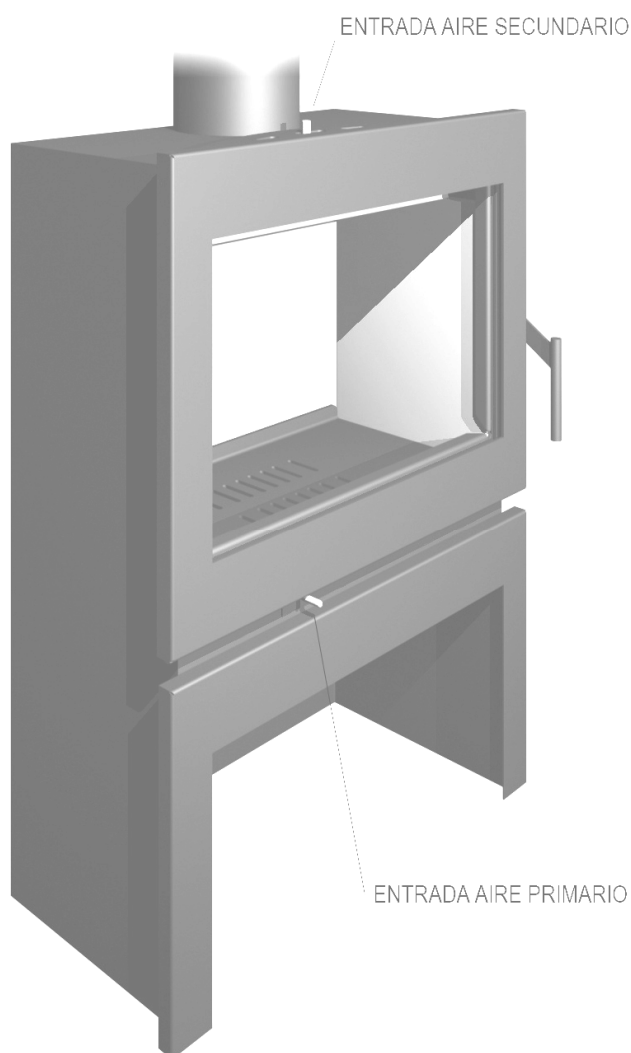
In woodburner stoves, prolonged and continuous use at a very low rate of combustion or with very wet wood can cause highly flammable creosote to build up in the flue.

When lighting the fire for the very first time, smoke and smells may be produced by the evaporation of the paint solvent. Therefore, keep the room ventilated.

Adjusting primary and secondary air inlets

You have purchased a stove model that offers maximum efficiency and performance. Therefore, control of the primary air inlets, located in the ashtray, and the secondary air inlet, located on the top of the apparatus, are essential to achieve optimum combustion levels.

The optimal regulation of the air inlets can vary depending on various factors, such as the chimney flue, the temperature of the stove woodburner, the quality of the wood (moisture, size and shape).



WHEN LIGHTING A FIRE

- Primary air inlet

It is essential to open this inlet to maximum position when lighting the fire and to leave the door ajar to avoid the condensation of fumes on the glass, closing it again once the appliance has warmed up.

- Secondary air inlet

Open 1-2 cm.

DURING OPERATION

- Primary air inlet

During normal operation of the burner, once the appliance has warmed up, you must close the primary air inlet to achieve good combustion performance.

If the quality of the firewood so allows, the primary air inlet must be fully closed or slightly open (no more than 1 cm).

- Secondary air inlet

Secondary air adjustment is the one that will provide better combustion that is cleaner and more efficient, making the most of every load of firewood.

You can adjust the entry of secondary air when the apparatus is hot enough and burning with a good flame.

During normal operation, you must never close the secondary air inlet completely. Normally the secondary air adjustment must have an opening of a minimum of 0.5 cm and a maximum of 3 cm.



In order to avoid burns, always use the glove supplied with the appliance when adjusting the primary air inlet and opening the door.

FUEL

Woodburner performance also depends greatly on the fuel used. The wood must be dry to get more heat. It will also be easier to regulate heat and keep the woodburner and flue in better condition. Store firewood in a dry, ventilated place protected from the rain for at least two years.

- You can also use compressed-wood logs, such as briquettes.
- Avoid softwoods, such as pine, because they produce a lot of smoke and soot that dirty the glass.
- Do not use flammable liquids to light the fire; always keep them away from the woodburner.
- Do not use the woodburner as an incinerator, never burn plastics, waste, garbage or rubbish.

- Remove the ashes when the woodburner is off and place them in a metal container as there may be burning embers hidden in the ashes.



Overloading the appliance with firewood decreases performance, reduces energy efficiency and accelerates the wear and tear of the appliance.

It is essential to respect the maximum loads of firewood for the rated power described at the end of the manual.

Overloading the appliance voids all the manufacturer's warranties.

Select the firewood to achieve the desired type of operation. Thin firewood should be used to get higher thermal power, use it after lighting the fire for a faster response as you need more heat.

Use larger-size, thick wood for a slower combustion when you have less need for heat or for overnight maintenance, always preceded by a cycle of more power with thinner firewood, when the appliance temperature is already high. If necessary, when starting the fire, burn a combination of thin and thick firewood.

COMBUSTION

Woodburners and inserts are intermittent combustion appliances. This means that they should be lit, loaded with an approximate weight of fuel as recommended by the manufacturer for each model, followed by a full combustion cycle and fuel reloads after each combustion cycle.

Good combustion is necessary for optimum performance and a better view of the flames through the glass. Guidelines:

- Maintain a high and constant temperature in the fireplace. Accordingly, the fireplace door must be closed at all times and opened only to load firewood, which must be done as quickly as possible.
- Do not take a long time when loading firewood and wait for the end of the combustion cycle, when the flames of the previous load disappear.

A full combustion cycle comprises the following:

1. A short period after reloading when the wood begins to heat up without flames. The time until the flame lights is an indication of the fireplace temperature. If you wait too long to reload firewood, the temperature falls too low and the new load of firewood does not light well. This has a negative effect on combustion and dirties the glass.
2. The temperature of the firewood increases rapidly and it begins to break up, emitting gas that ignites if the fireplace temperature is appropriate. The fireplace temperature begins to increase as the fuel emits more gas and the flames increase.
3. After a certain period of time, which varies depending on the type of firewood, the maximum temperature value is reached and the gases emitted from the firewood decrease slowly along with the volume of the flames. When the firewood gas emission is complete, the flame goes out and the firewood turns to burning embers.

- The fuel load should have the approximate weight recommended by the manufacturer for each model. Preferably in one or two pieces.
- Avoid overloading with firewood that is too thin as this can cause poor combustion. The firewood emits an excessive amount of gas very quickly and the air supply is insufficient. Although there is a large volume of flames,

combustion it is not good and the glass tends to get dirty. There is a danger of reaching excessive temperatures that threaten the integrity of the woodburner and user safety.

- During operation, you must open the door only when putting more wood on the fire, doing so slowly to prevent the smoke inside the fireplace from blowing out into the room.

MAINTENANCE

To clean the glass, be careful to spray the cleaning product on a cloth and clean only the glass, without wetting the rest of the door. Window-cleaners and special products often contain chemicals that attack the paint and the ceramic fibre seals and cause oxidation of the metal parts.

It is very important not to wet the woodburner with window-cleaner, water or special cleaning products. Heatproof paint is not waterproof.

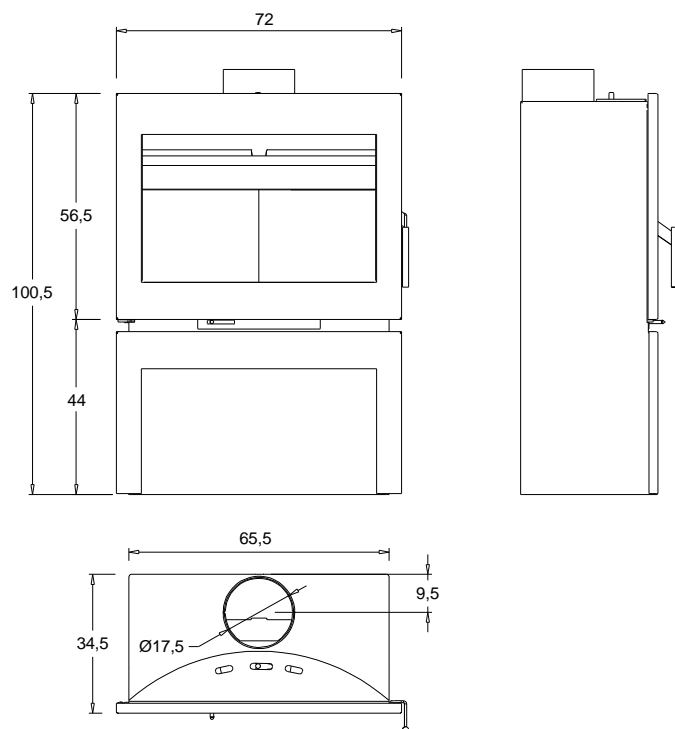
Clean the paintwork with a feather duster or a soft, dry cloth. If over time you want to repaint the insert, the manufacturer makes a spray paint Available from your dealer.

TIPS AND SAFETY STANDARDS

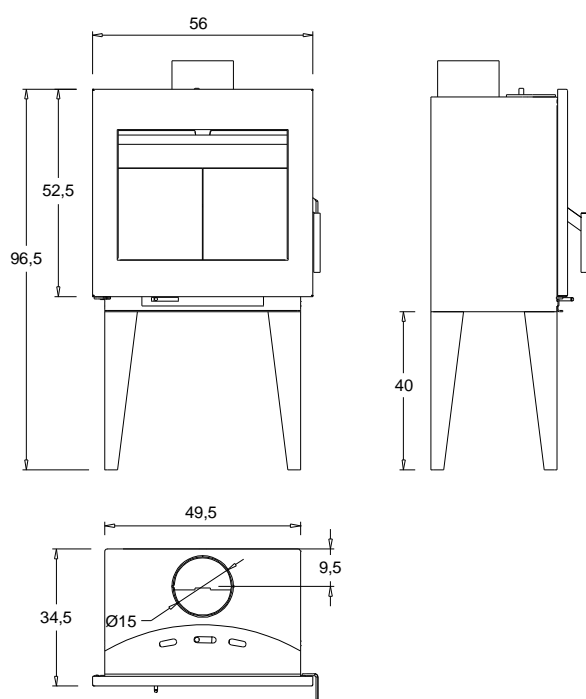
Woodburner performance also depends greatly on the fuel used. The wood must be dry to get more heat. It will also be easier to regulate heat and keep the woodburner and flue in better condition. Store firewood in a dry, ventilated place protected from the rain for at least two years.

- Observe the minimum safety distance for objects made of combustible materials.
- Never install the appliance on surfaces of combustible material.
- Do not use flammable liquids to light the fire; always keep them away from the woodburner.
- Do not use the woodburner as an incinerator, never burn plastics, waste, garbage or rubbish.
- Remove the ashes when the woodburner is off and place them in a metal container as there may be burning embers hidden in the ashes.
- You should check the chimney regularly and keep it clean and in good condition. Creosote build-up in the chimney could cause it to catch fire.
- Warn children of the danger of burns.
- Do not modify the appliance without authorisation and use only original spare parts.
- The appliance must be installed on floors with sufficient bearing capacity.
- On days with adverse draught conditions (very low atmospheric pressure, heavy frosts), or when the flue is very cold, or in chimneys with a poor draught, you can help the draught to start before lighting the fire by heating the flue:
 1. Prepare the wood for lighting inside the woodburner.
 2. Place a firelighter or a sheet of newspaper on the deflector at the start of the flue and set fire to it.
 3. After a few seconds, when the chimney draught starts, light the wood as instructed.

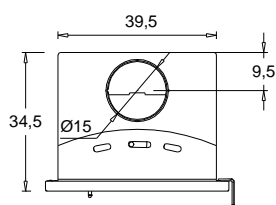
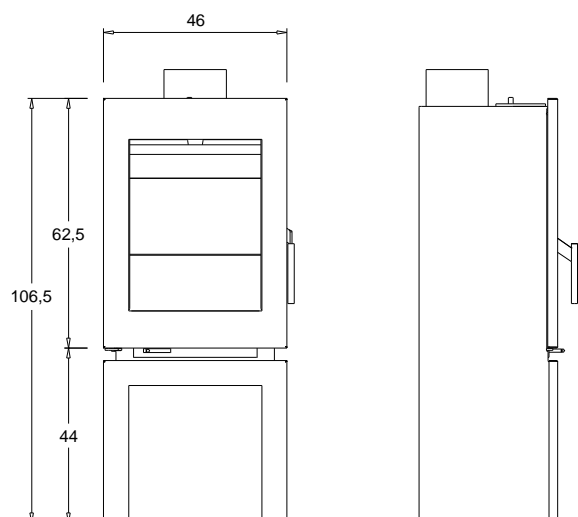
TECHNICAL SPECIFICATIONS



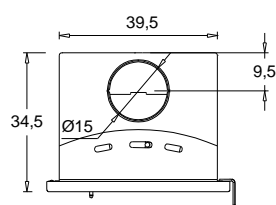
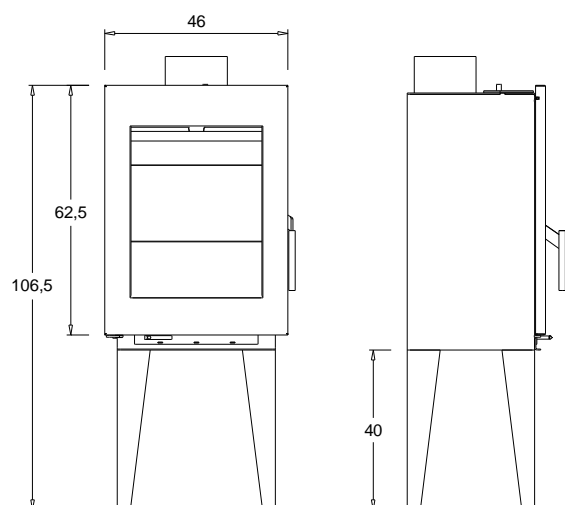
Model:	Athene
Performance:	73%
Nominal thermal power:	9 kW
Firewood load for nominal power:	2.1 kg
Reload interval for nominal power:	45 min
Maximum firewood load:	2.7 kg
Weight:	90 kg
Required chimney flue:	12 Pa
Average smoke temperature:	310 °C



Model:	Helios
Performance:	73%
Nominal thermal power:	8 kW
Firewood load for nominal power:	1.8 kg
Reload interval for nominal power:	45 min
Maximum firewood load:	2.5 kg
Weight:	66 kg
Required chimney flue:	12 Pa
Average smoke temperature:	310 °C



Model:	Maia Cube
Performance:	73%
Nominal thermal power:	7 kW
Firewood load for nominal power:	1.5 kg
Reload interval for nominal power:	45 min
Maximum firewood load:	2 kg
Weight:	70 kg
Required chimney flue:	12 Pa
Average smoke temperature:	310 °C



Model:	Maia Slim
Performance:	73%
Nominal thermal power:	7 kW
Firewood load for nominal power:	1.5 kg
Reload interval for nominal power:	45 min
Maximum firewood load:	2 kg
Weight:	63 kg
Required chimney flue:	12 Pa
Average smoke temperature:	310 °C

CERTIFICATE OF WARRANTY

NAME
TOWN/CITY
PROVINCE

ADDRESS
POSTCODE
TEL:

E-MAIL:

MATERIAL EXCLUDED FROM WARRANTY

*Deflector, Paint, chromework
Vermiculite, glass and seals*

ELECTRICAL COMPONENTS

2 YEARS

APPLIANCE FRAME

2 YEARS

This warranty covers the faulty part and shipping to your dealer.

This warranty covers faults in parts and manufacturing.

The warranty does not cover damage to the appliance caused by improper use or negligence.

The appliance must be installed by a professional fitter.

All appliances must be installed according to the instructions manual and current regulations in each country.

The manufacturer declines all liability for breach of the instructions manual.

For the warranty to take effect, the manufacturer must be sent a copy of this certificate and a copy of the customer invoice.

DEALER'S SIGNATURE AND STAMP

CUSTOMER'S COPY

Cocinas Carbel, S.L
C/ Ciudad de Cartagena, 22
Polígono Industrial Fuente del Jarro
46988 (Paterna) VALENCIA

CERTIFICATE OF WARRANTY

NAME
TOWN/CITY
PROVINCE

ADDRESS
POSTCODE
TEL:

E-MAIL:

MATERIAL EXCLUDED FROM WARRANTY

*Deflector, Paint, chromework
Vermiculite, glass and seals*

ELECTRICAL COMPONENTS

2 YEARS

APPLIANCE FRAME

2 YEARS

This warranty covers the faulty part and shipping to your dealer.

This warranty covers faults in parts and manufacturing.

The warranty does not cover damage to the appliance caused by improper use or negligence.

The appliance must be installed by a professional fitter.

All appliances must be installed according to the instructions manual and current regulations in each country.

The manufacturer declines all liability for breach of the instructions manual.

For the warranty to take effect, the manufacturer must be sent a copy of this certificate and a copy of the customer invoice.

DEALER'S SIGNATURE AND STAMP

COPY FOR THE MANUFACTURER

Cocinas Carbel, S.L
C/ Ciudad de Cartagena, 22
Polígono Industrial Fuente del Jarro
46988 (Paterna) VALENCIA