

INSTRUCTION MANUAL

Models:

- ***H-100 Plus***
- ***H-80 Plus***
- ***H-50 Plus***
- ***H-100 Plus Double Sided***



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.

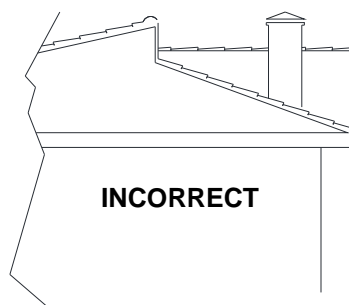
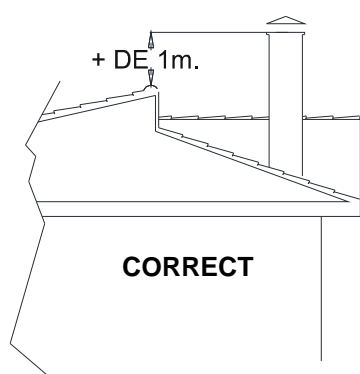
All our models are designed and manufactured for optimal performance. However the operation and performance you get will depend largely on the installation.

The appliance must be installed only by qualified professionals and 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/increase 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.
- 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 exterior of the pipe and entering into the pipe interior through the joints.

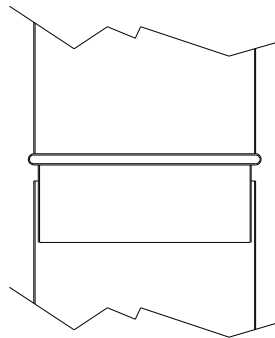


Figure 1.

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.

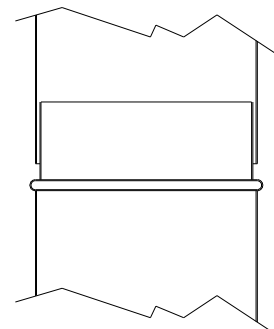


Figure 2.

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.

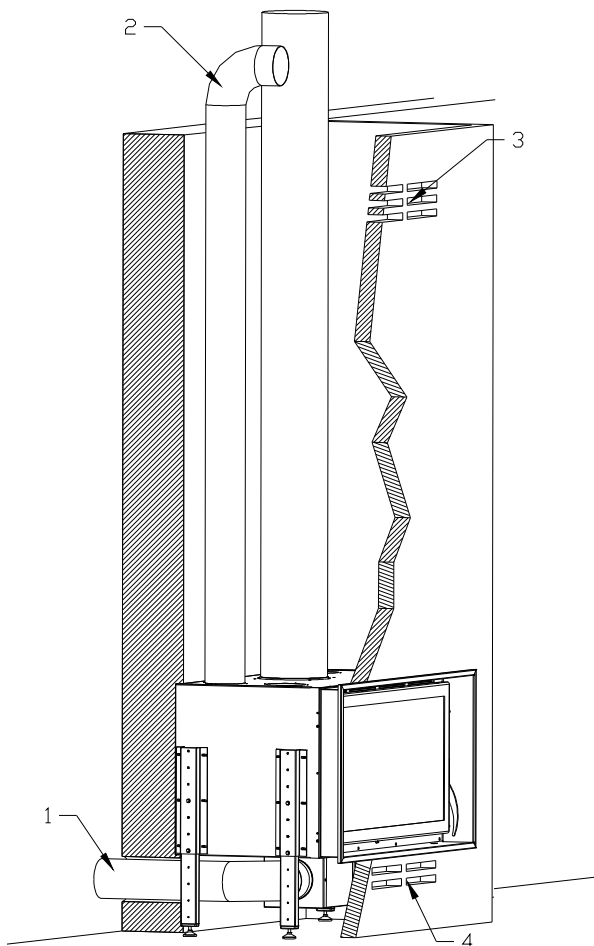
An air inlet must be fitted through the outer wall and if a vent is installed, it must not be adjustable and must be fitted in such a way that it cannot be blocked.

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

Instructions for Installation

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

Although the following describes an example installation to ensure good performance, it may not be ideal for your circumstances. In any case, it is always better to have a professional do the installation.



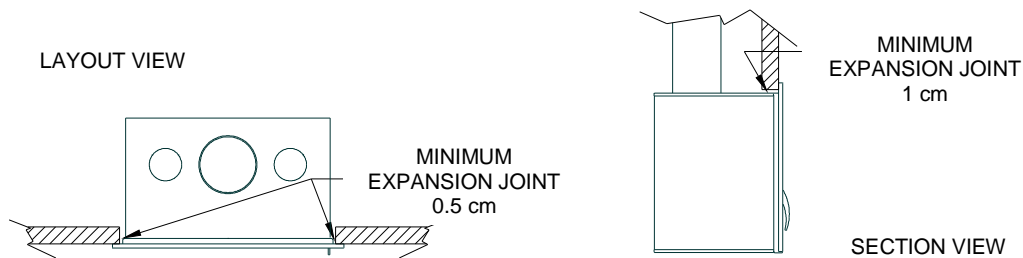
1. Exterior air inlet.

2. Hot air outlet. At least one of the hot air outlets of the woodburner convection chamber must be activated.

3- Hot air outlet of the chimney chamber by natural convection.

4- Entry of air into the chimney convection chamber.

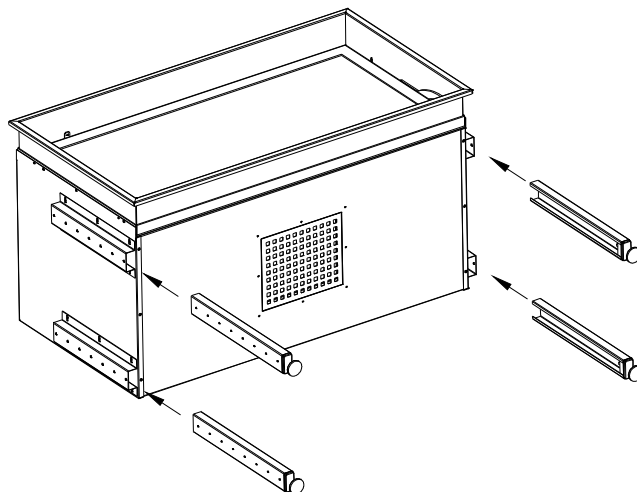
The building work must be finished in such a way that the woodburner can expand during operation: the brickwork must never be supported on or against the sides of the appliance. Leave a minimum expansion joint of 0.5 cm on each side and at least 1 cm the top of the front.



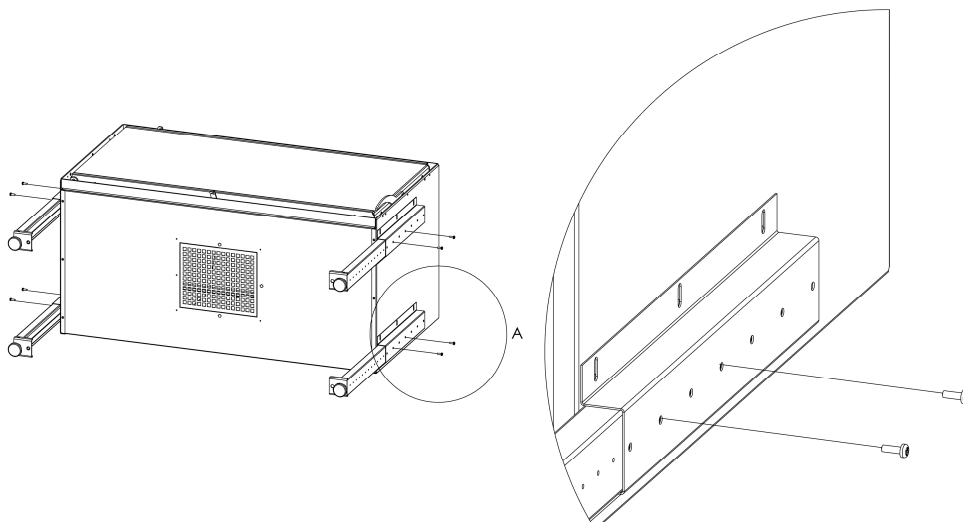
Fitting the legs

Turn the appliance over onto its back.

Insert the legs into the guides.



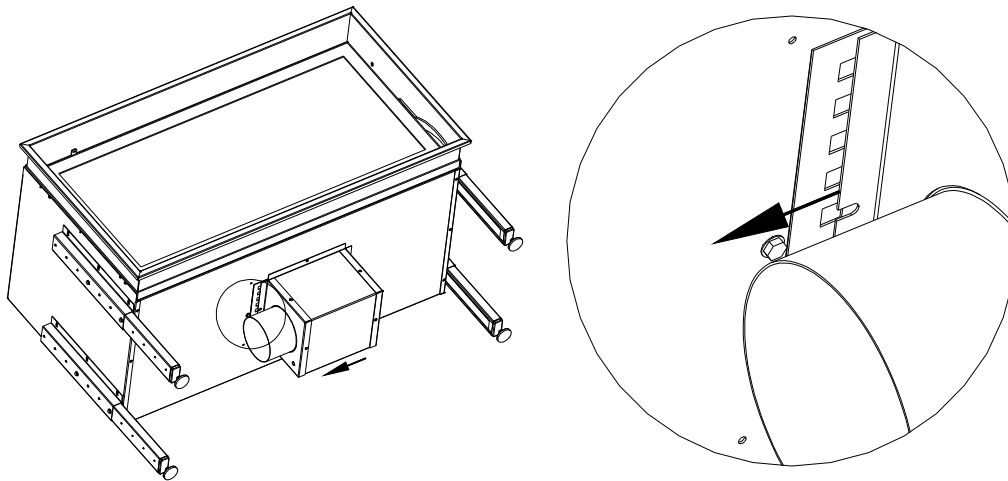
Adjust the height and fasten the legs in place using the screws. To mount the turbine housing, a minimum height of 175 mm is required.



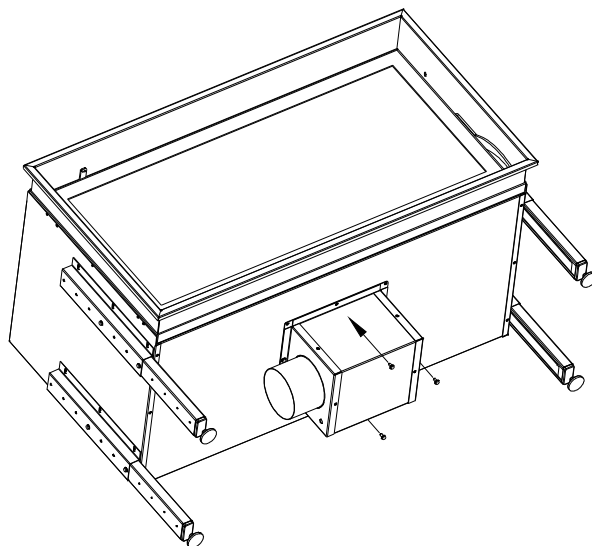
Fitting the turbine housing.

It is important to mount the turbine housing even when no turbine (optional) is installed. It has an air inlet through a piece for a flue of Ø 120 mm.

First fit the screw on the air inlet piece, leaving a few millimetres of separation to insert the tab with the screw recess.



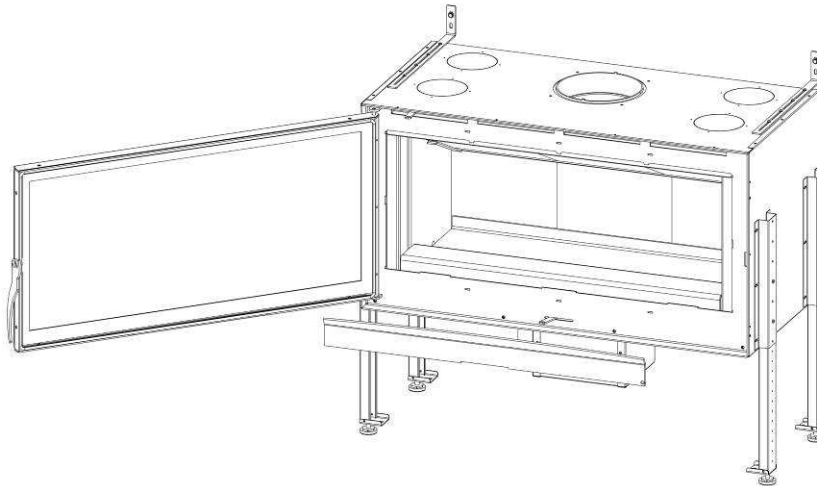
Put the housing down and move it to coincide with the screw tab recess. Then tighten the remaining three screws.



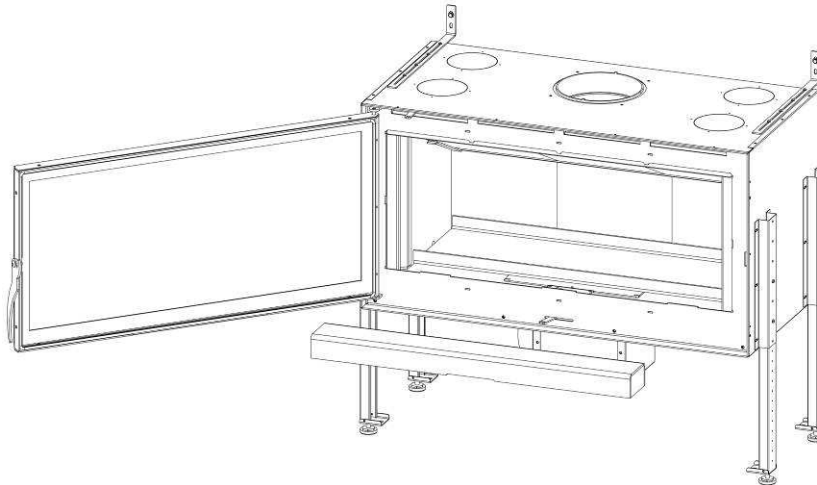
Installing the turbine (optional).

Models: H-100 Plus, H-100 Plus double-sided and H-80 Plus

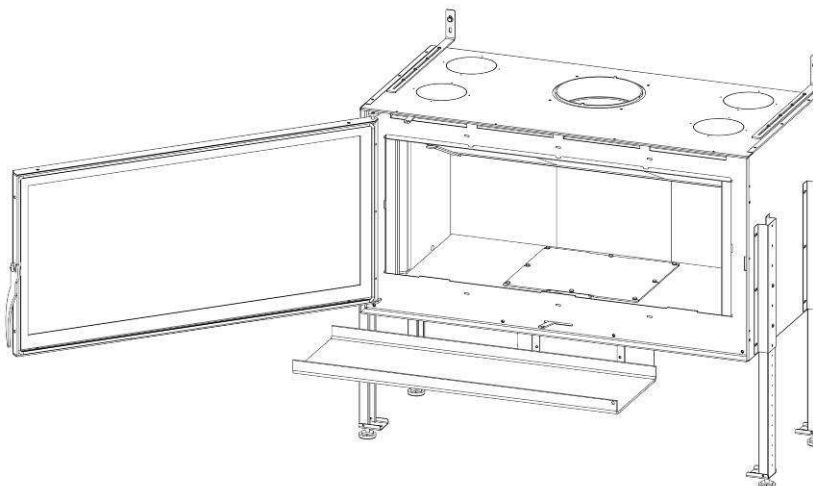
Remove in this order: the woodholder that protects the glass.



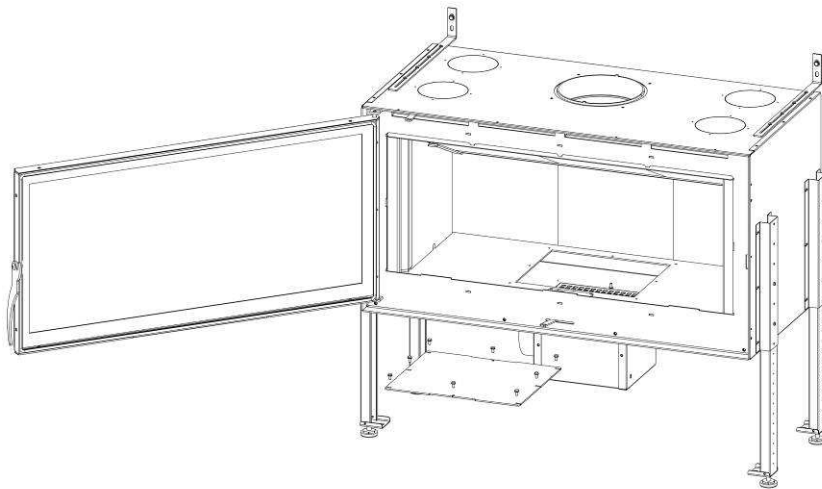
Remove the primary air inlet nozzle



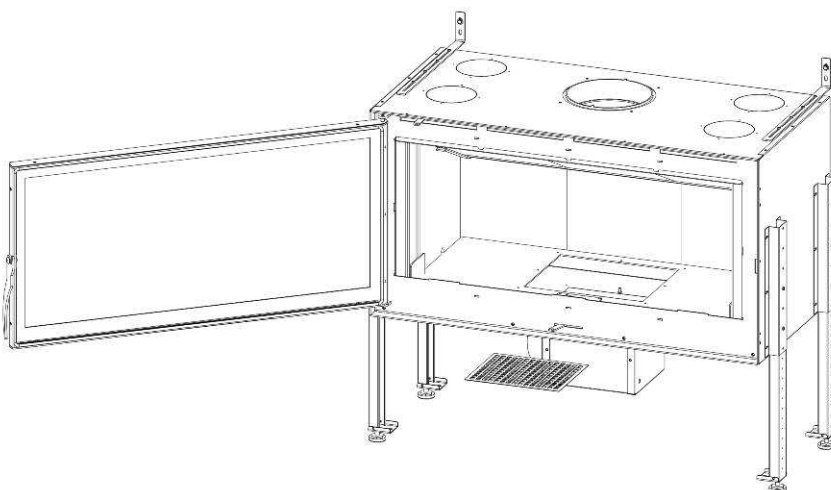
Remove the fireplace base.



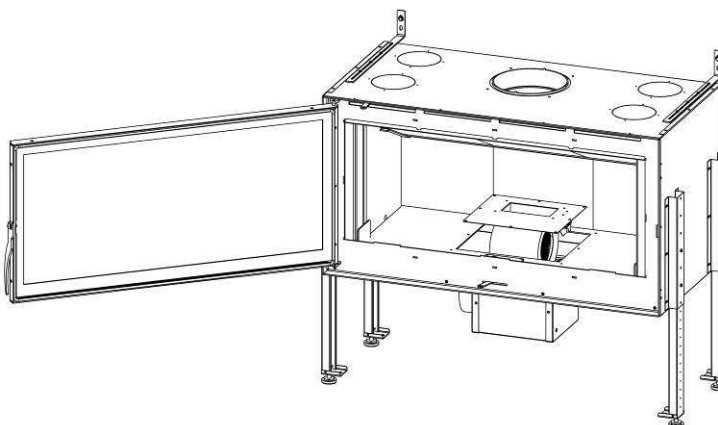
Unscrew the eight screws and remove the turbine access cover.



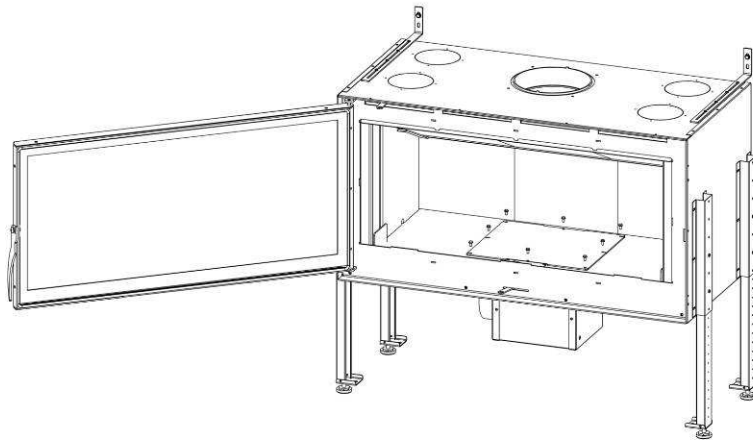
Remove the convection chamber vent by breaking the micro-couplings.



Fit the turbine and tighten the screws.



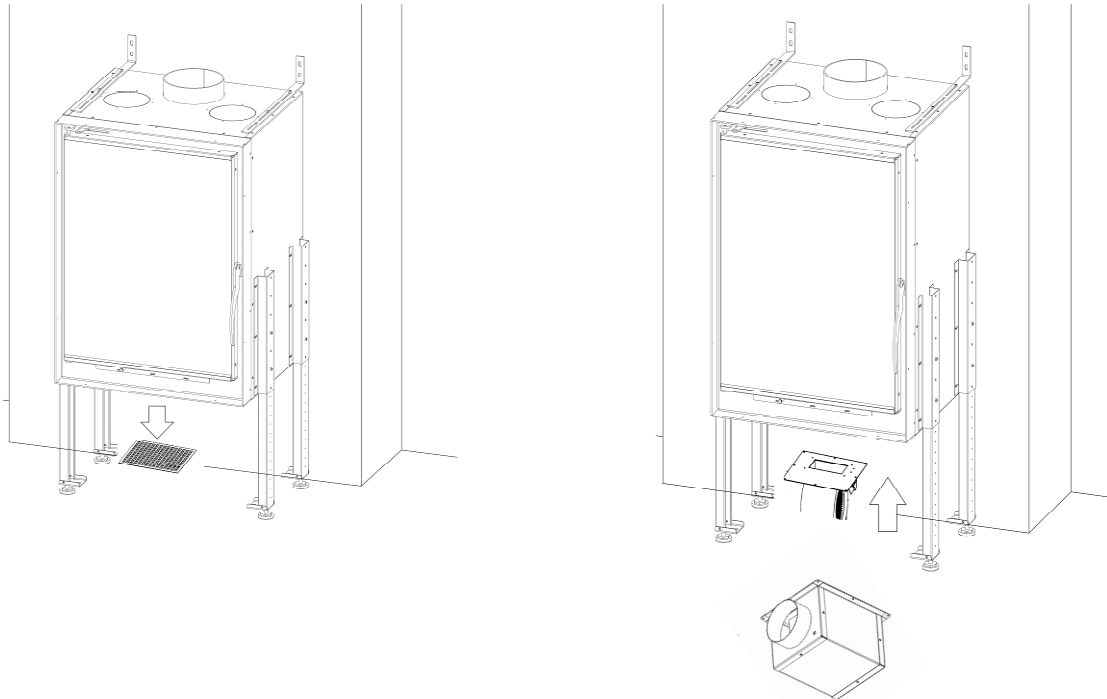
Replace the turbine access cover and tighten the screws.



Replace the base, the air inlet nozzle and the woodholder that protects the glass.

Installing the turbine (optional).

Model H-50 Plus



Remove the vent at the bottom of the convection chamber by breaking the micro-couplings.

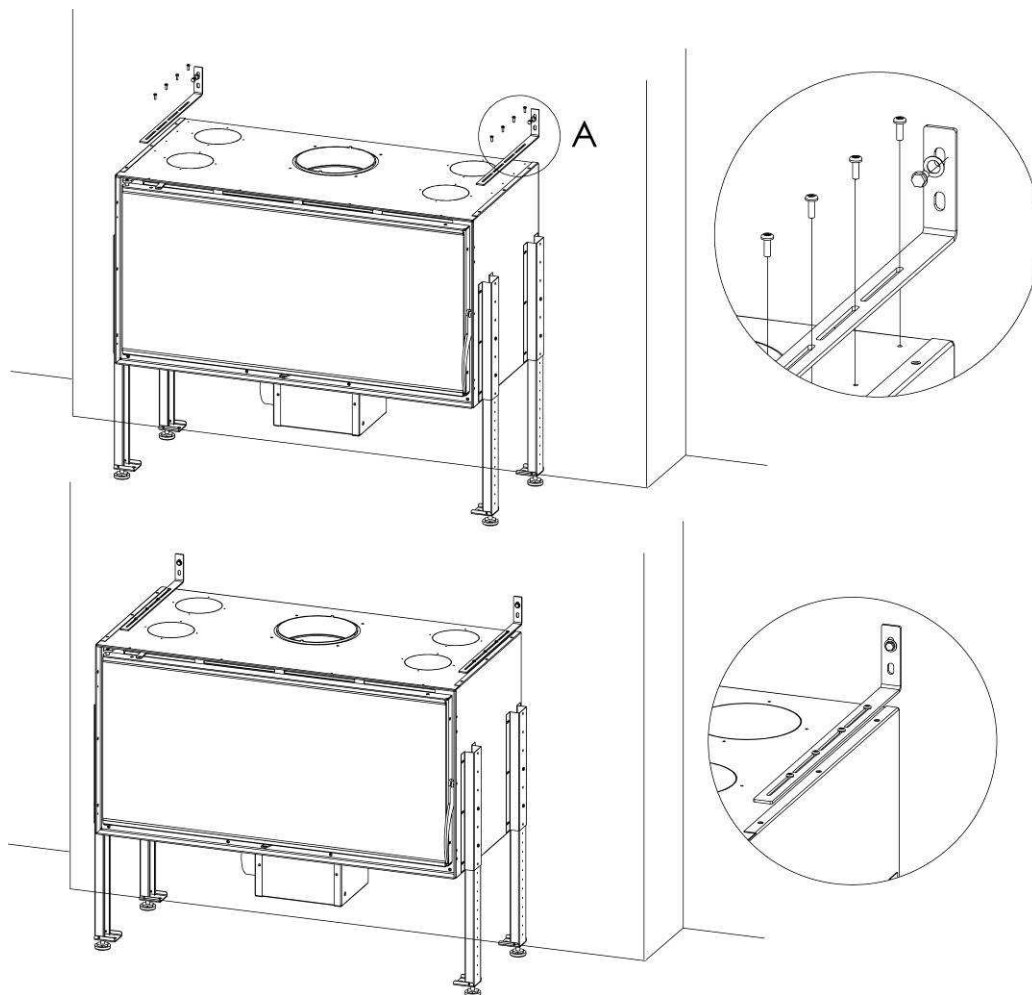
Fit the turbine directly from the outside, tighten the screws and fit the air inlet box.

Fastening the appliance to the wall (models: H-100 Plus, H-80 Plus and H-50 Plus)

In order to ensure the optimal stability and support of the appliance, we recommend you install the two supplied brackets.

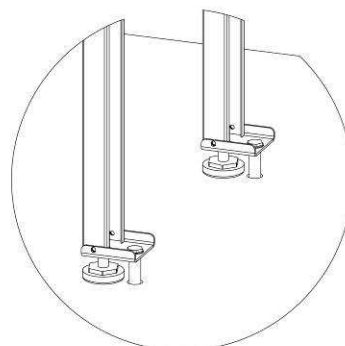
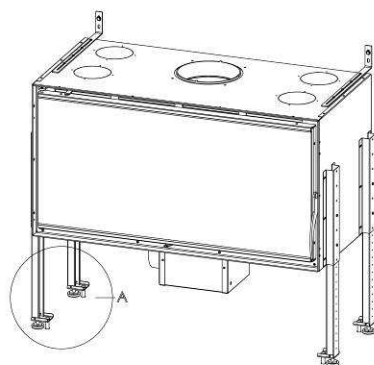
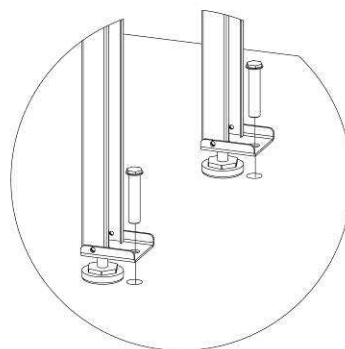
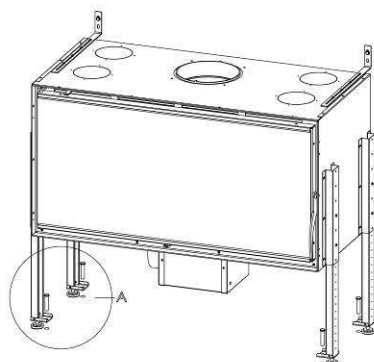
Use the supplied screws to fasten the two brackets to the top of the appliance.

Screw the brackets to the wall using screws the fitter deems appropriate depending on the materials of the room or building.

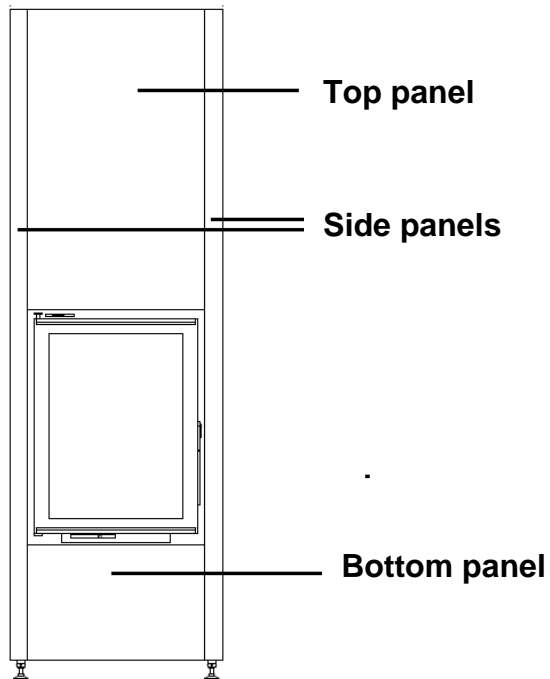


Anchoring the appliance to the floor:

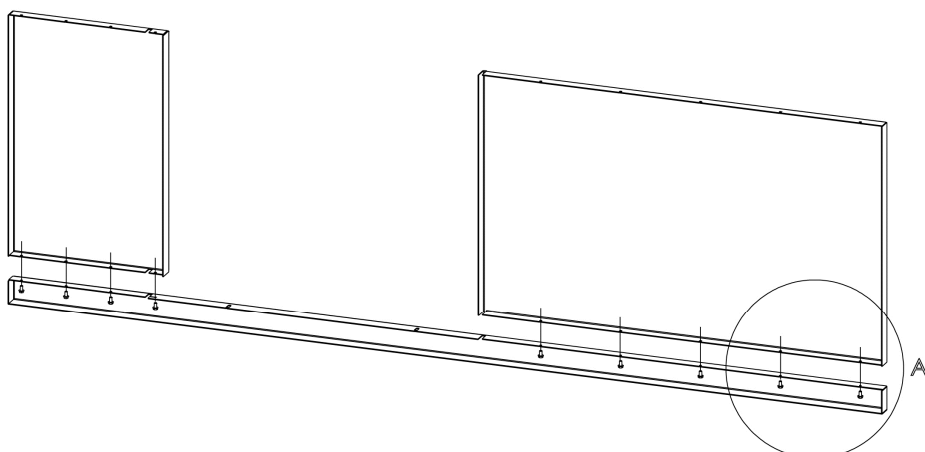
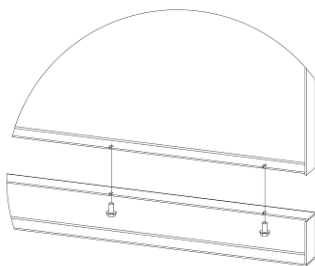
In order to ensure the proper anchoring of the appliance to the floor, you can use the metal legs designed for said purpose. The choice of suitable bolts will be the fitter's responsibility.

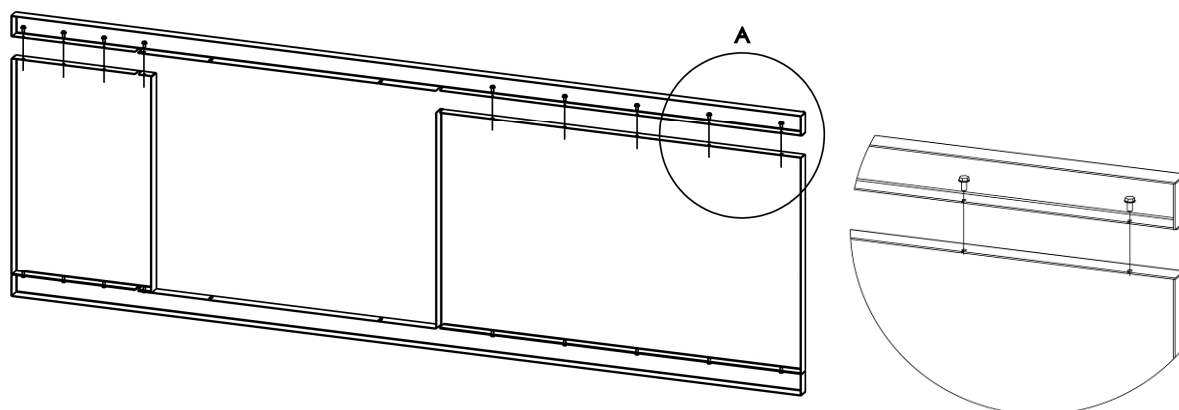


Fitting the New Line vertical frame (model: H-50 Dekor New Line)

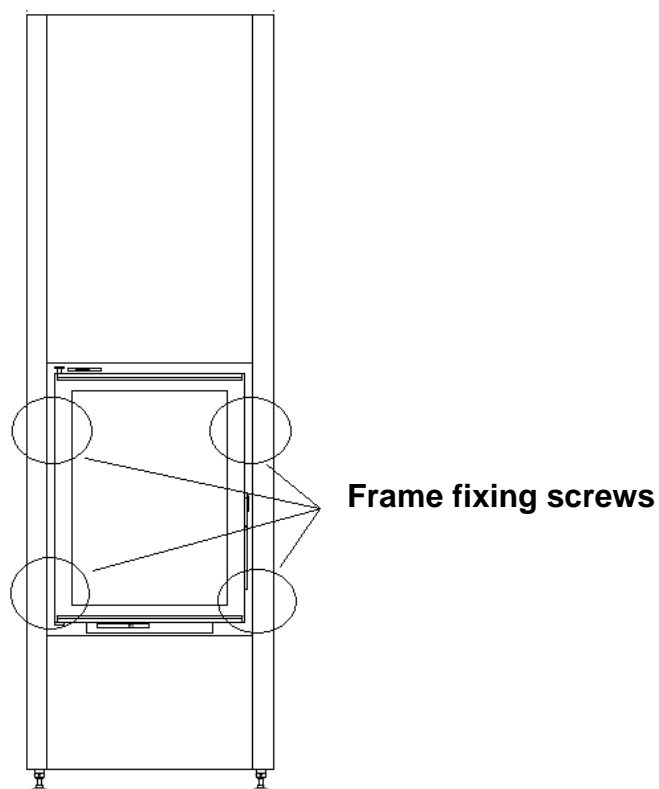


Screw the top and bottom panels to the side panels.





Remove the fireplace door and position and screw the New Line frame to the front of the appliance. Refit the door.



Lighting a fire

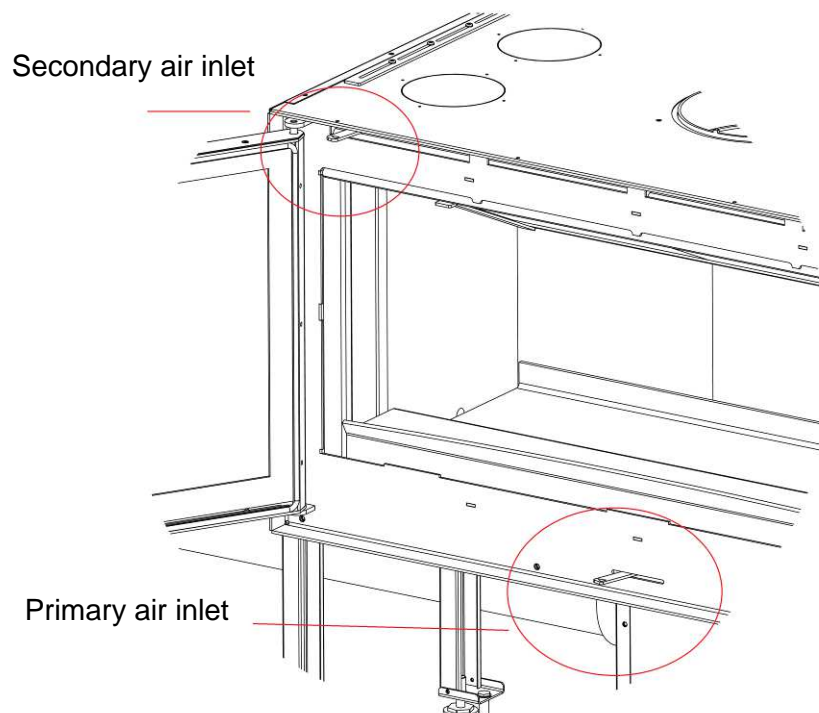
Important: the fire must be lit using thin, dry wood.

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. Leave the door ajar, with an opening of 1-5 cm, so that enough air can enter for the fire to light quickly.
4. After approximately 15 minutes, once the appliance is hot and the wood is well-lit, close the door and adjust the air inlet. If you see that the volume of flames decreases or tends to go out, open the air inlet or repeat step 3.

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.

Adjusting primary and secondary air inlets

You have purchased an insert model that offers maximum efficiency and performance. Therefore, control of the primary air inlet, located in the ashtray or at the bottom of the front, and the secondary air inlet, located on the left of the front of the appliance, are essential to achieve optimum combustion levels.



Note: The layout and location of the primary air inlet may vary depending on the model you have purchased.

- Primary air inlet

It is essential to open 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.

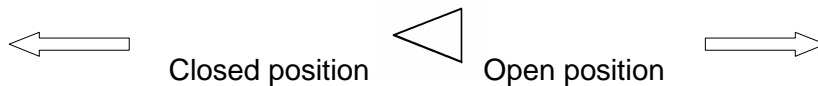


In order to avoid burns, always use the glove supplied with the appliance when adjusting the primary air inlet and opening the door.

- Secondary air inlet

It must always be in fully open position when lighting the fire. During operation, adjust the combustion with the secondary air inlet according to the chimney draft and the wood used.

Schematic of the primary and secondary air inlet adjustment controls.

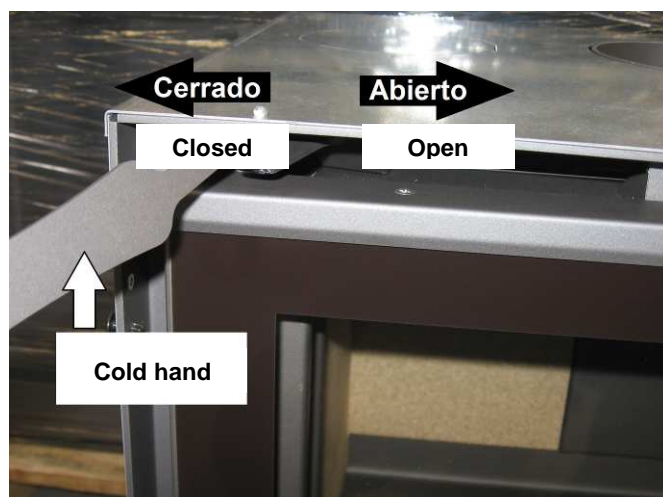


You can adjust the secondary air inlet when the appliance is warm enough and there is a sufficient amount of flames.

Secondary air regulation will provide greater control of combustion, slowing down combustion and making the most of every load of firewood.



In order to avoid burns, always use the adjustment tool supplied with the appliance to adjust the secondary air inlet.



Combustion

To achieve a good combustion, when the wood is well lit and a high temperature has been reached, close the primary air inlet (via the ash box). In this way, the combustion air (preheated in the upper section of the fireplace) enters through the secondary air inlet at the top of the fireplace near the glass, resulting in better gas combustion. You will notice this in an increase in flames and temperature.

Woodburners 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 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.
- 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.

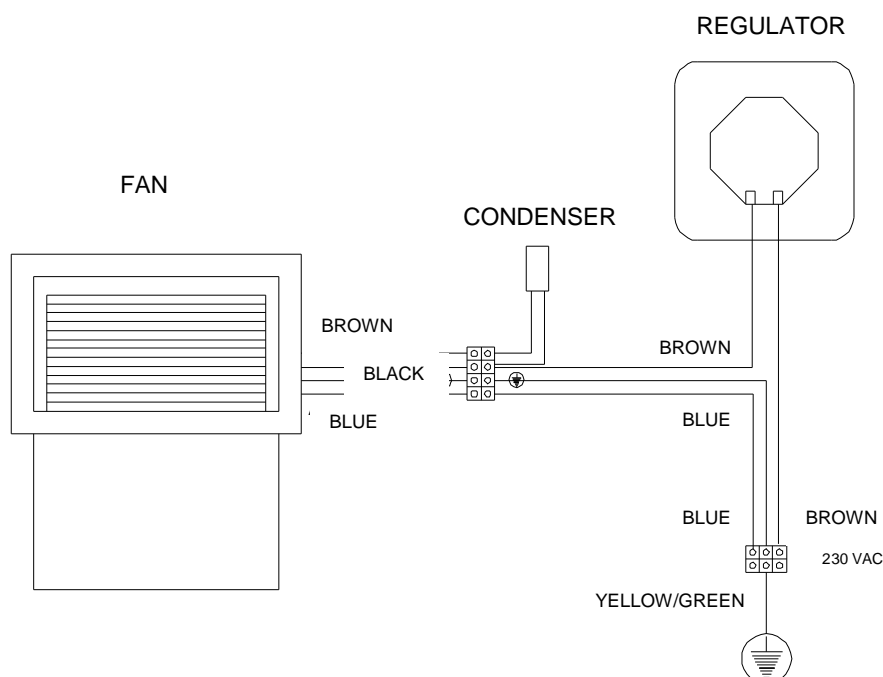
Use larger-size, thick wood for a slower combustion when you have less need for heat or for overnight maintenance, always preceded by a cycle of more power with thinner firewood, when the appliance temperature is already high. If necessary, when starting the fire, burn a combination of thin and thick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

When the woodburner is in operation, the door should always be closed. When you open the door to reload, do so slowly to avoid the smoke inside the fireplace from blowing out into the room.



In woodburners and inserts, 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 due to the paint drying. Therefore, keep the room ventilated.

ELECTRICAL SCHEMATIC



MAINTENANCE

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.

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 fibre seals and cause oxidation of the metal parts.



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 loads of firewood for the rated power described at the end of the manual. Overloading the appliance voids all the manufacturer's warranties.

TERMS AND CONDITIONS OF WARRANTY

The manufacturer guarantees the product for a term of five years, excluding parts subject to normal wear and tear.

The warranty excludes: fibre seals, ceramic glass and removable parts of the fireplace, as well as parts and damage caused by misuse or a faulty installation.

The warranty covers the replacement or repair of parts recognised as faulty manufacture. Replaced parts are guaranteed for the term of warranty remaining from the date of purchase.

TIPS AND SAFETY STANDARDS

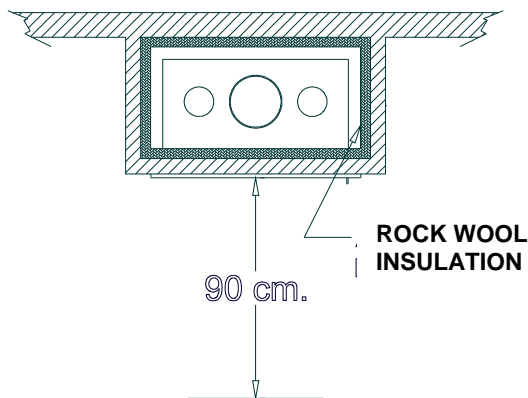
Woodburner performance also depends greatly on the fuel used. The wood must be dry to get more heat. It will also be easier to regulate heat and keep the woodburner and flue in better condition. Store firewood in a dry, ventilated place protected from the rain for at least two years.

- Do not simultaneously use other flues or appliances that may cause a depression in the same or an adjacent room.

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

- 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.
- The woodburner must not be used by minors.
- 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.
- Observe the minimum safety distances from nearby combustible materials.



In front of the appliance: minimum 90 cm.

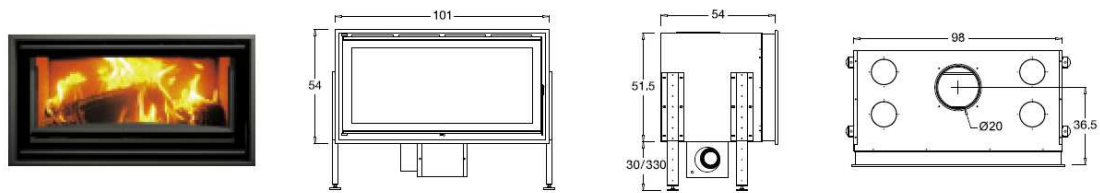
Combustible materials must not be installed on the appliance or inside the brickwork.

- 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.

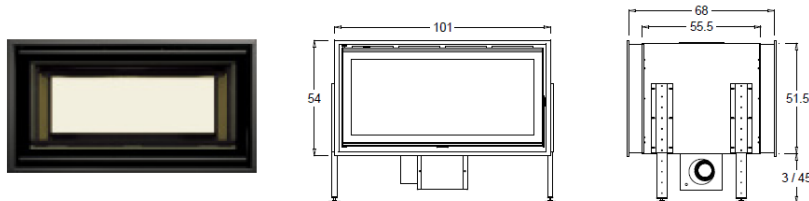
> H-100 PLUS

Fireplace



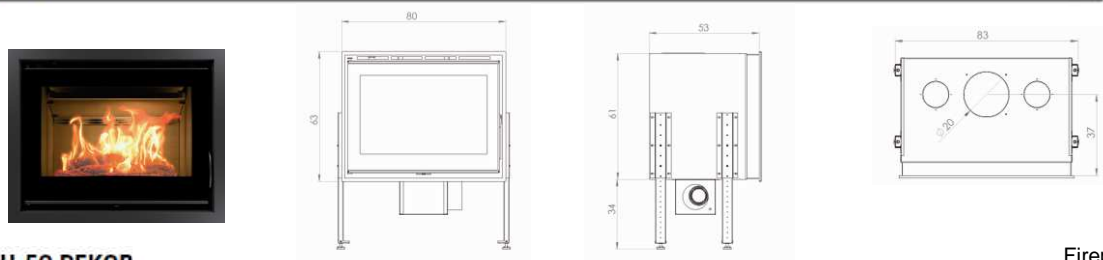
> H-100 PLUS D.C.

Double-sided fireplace



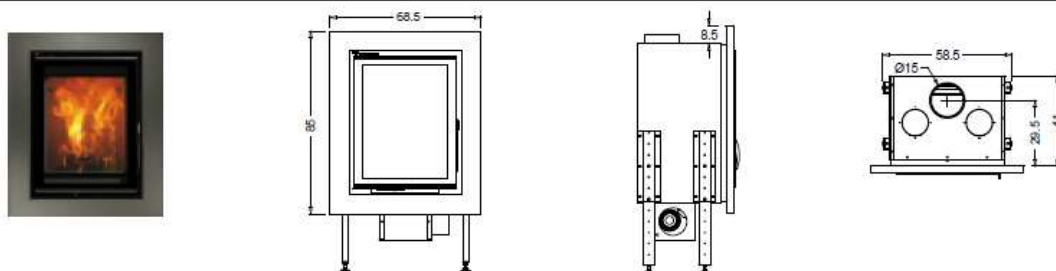
> H-80

Fireplace



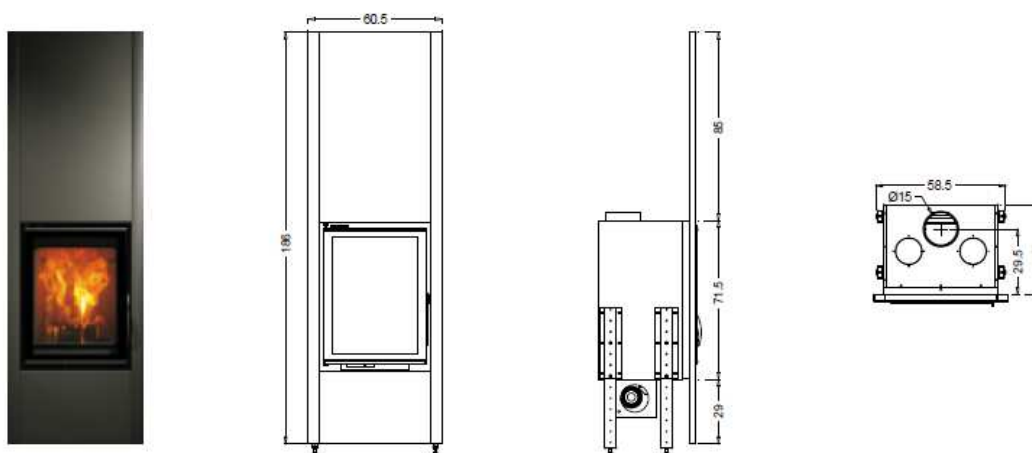
> H-50 DEKOR

Fireplace



> H-50 DEKOR MARCO NEW LINE

Fireplace



	H100 Plus	H100 Plus Double Sided	H80 Plus	H50 Plus
Performance %	78	75	77	79
CO emissions at 13% O2 in %	0.15	0.27	0.11	0.09
Rated power kW/h	11.8	12.8	8	7.9
Firewood load for rated power.	2.5 kg.	3 kg	1.6 kg	1.5 kg
Reload interval for rated power.	0.78 h.	0.8 h.	0.74 h.	0.72 h.
Max. admitted load.	4 kg	4.8 kg	3 kg	2.9 kg
Required draft	12 Pa	12 Pa	12 Pa	12 Pa
Average temp. of fumes				
Weight (kg)	125	150	110	100
Diam. Fumes outlet.	20 cm	20 cm	20 cm	15 cm

COCINAS CARBEL, S.L.

*C / Ciudad de Cartagena, 22
 46988
 Polígono Industrial Fuente de Jarro (Paterna)
 Valencia
 Tel. 96 1340716 Fax: 96 1340449
 E-mail: carbel@carbel.net*

CERTIFICATE OF WARRANTY

NAME
TOWN/CITY
PROVINCE

ADDRESS
POSTCODE
TEL:

E-MAIL:

MATERIAL EXCLUDED FROM WARRANTY
*Deflector, paintwork, chromework
Vermiculite, glass, seals*

ELECTRICAL COMPONENTS

2 YEARS

APPLIANCE FRAME

5 YEARS Inserts
2 YEARS Woodburners

*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, paintwork, chromework
Vermiculite, glass, seals*

ELECTRICAL COMPONENTS

2 YEARS

APPLIANCE FRAME

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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