



BEDIENUNGSANLEITUNG & GARANTIEKARTE  
MODE D'EMPLOI & CARTE DE GARANTIE  
ISTRUZIONI OPERATIVE & CARTOLINA DI GARANZIA  
INSTRUCTIONS FOR USE & WARRANTY CARD  
BEDIENINGSHANDLEIDING & GARANTIEBEWIJS

**Bitte kleben Sie hier Ihre Garantie-Nr. auf**  
(siehe Ofenrückseite bzw. Aufkleber Feuerraumscheibe).

**Veuillez coller votre N° de garantie à cet endroit**  
(voir la face arrière du poêle ou l'autocollant sur la vitre du foyer).

**Applicare qui il vostro numero di garanzia**  
(vedi parte posteriore della stufa, ossia l'etichetta della lastra del focolare).

**Please affix your warranty number here**  
(located on the back of the stove and on the sticker attached to the fire chamber window).

**Plakt u hier s.v.p. uw garantienummer in**  
(zie de achterzijde van de kachel en de sticker op de kachelruit).

<b>D</b>	<b>BEDIENUNGSANLEITUNG</b>	<b>S.</b>	<b>5 - 18</b>
	Garantiekarte im Anhang		
<b>F</b>	<b>MODE D'EMPLOI</b>	<b>P.</b>	<b>19 - 32</b>
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## Dear Customer,

You have decided to buy a HASE tiled stove.

Traditional craftsmanship, elegant design and the latest combustion technology guarantee you years of enjoyment in front of your HASE stove.

The bodywork of the HASE stove comprises strong modern welded steel plates.

The stability and long service life of all HASE models is ensured by both the heat-resistant tiling of the fire box and the temperature-stable special lacquer.

The top quality of all the materials is a matter of course for us as is the greatest possible care we take in production. All control elements are easily located and simple to use.

**Please read through these operating instructions carefully. They will give you helpful hints and useful tips to increase the pleasure you get from your stove.**

**We hope that you will enjoy many happy hours around your new HASE stove.**

**Your  
HASE-Kaminofenbau GmbH**

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### 1.1 Legal building regulations

Before installing your tiled stove we recommend that you talk to your local chimney sweep. He will advise you on the relevant building regulations, supply permission and perform the acceptance test.

Also check whether the room in which the stove is to be installed has an adequate supply of fresh air. If the windows and doors are sealed it may be that the necessary supply of fresh air is no longer ensured and the draught levels required by your stove may be insufficient. The performance of your tiled stove is also dependent on the draught from your chimney. This may be impaired by the cross section of your chimney or an effective chimney height of less than 4.50 m. The effective chimney height is the distance between the flue gas intake in the chimney and the top of the chimney pot.

### 1.2 Type of construction

The stove may only be operated with the fire box being closed. It can be connected to any chimneys already assigned. For reasons of safety, the stove is equipped with a self-closing fire box door.

### 1.3 The flue pipe

The stove must be connected to a flue pipe whose internal diameter is 150 mm. All the parts must be fitted extremely accurately at the connection points. The pipe must be sealed well in the chimney entrance and must not project into the cavity of the chimney otherwise smoke extraction will be impaired.

### 1.4 Heat-sensitive materials

If the floor is flammable, for example, if made of wood, plastic or is carpeted, etc., a floor plate must be used. (Please also read Chapter 5: Safety).

### 1.5 NIZZA glass top

**ATTENTION:** Protect the glass top against extreme variations in temperature. Do not put containers of cold water on the hot glass top.

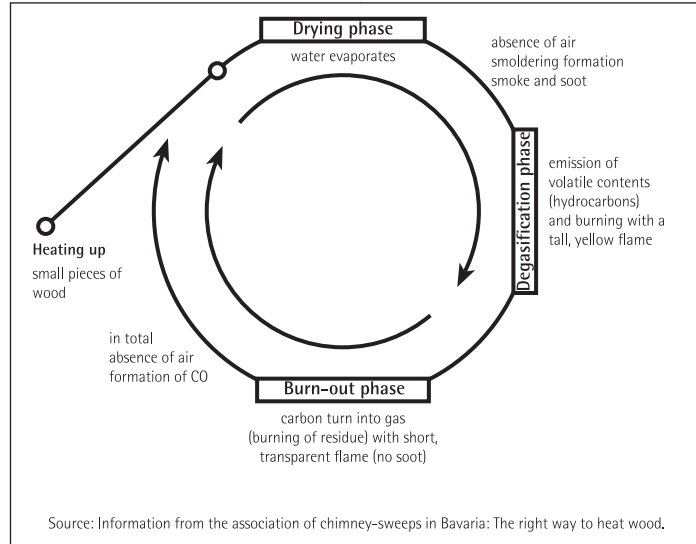
2.1 Fuels

In accordance with the First Ordinance on the Implementation of the Federal Emission Reduction Law, only fuels which generate low quantities of smoke may be used in stoves. For HASE stoves these are exclusively:

- natural wood with bark, eg. in the form of logs or bricks, and also brown coal briquettes.

The following should f. e. NOT BE BURNED:

- painted or plastic-coated wood
- wood treated with wood preservatives
- domestic waste
- paper briquettes (pollutants: cadmium, lead, zinc)
- damp wood (residual moisture content over 20%)



Source: Information from the association of chimney-sweeps in Bavaria: The right way to heat wood.

Fig.: The combustion process

If the above materials are burned they not only generate unpleasant smells but also emissions which damage the environment and are harmful to the health. Highly resinous kinds of wood (eg. spruce, pine, fir) tend to give off large quantities of sparks. These types of wood should only be burned with the doors closed. Twigs and sticks of wood should only be used for lighting the fire.

2.2 The combustion process

The following conditions must be met for burning solid fuels:

- The necessary supply of oxygen must be available. This is generally taken from the ambient air.
- The ignition temperature must be achieved. This means the temperature at which the fuel continues to burn without interruption whilst

giving off large quantities of heat.

Steel expands very slightly on heating and contracts again to the same degree on cooling. The steel of which your chimney stove is made also reacts to fluctuations in temperature. Your stove is however designed in such a way as to allow the metal room to expand and contract without damaging the stove. During the firing process the internal action in the steel produces a crackling noise.

**Wood combustion can be broken down into three phases:**

1. Drying phase

The moisture still contained in the air-dried wood (approx. 15 - 20%) is evaporated. This is done at temperatures of approx. 100°C. The wood must be provided with heat during the warming phase for this purpose, which can be achieved by quick-burning wood.

2. Degasification phase

At temperatures of between 100°C and 150°C the contents of the wood start (slowly at first) to decompose and gasify and the wood begins its thermal decom-

position. At temperatures over 150°C the gas development increases strongly. The proportion of volatile components makes up around 80% of the wood substance. The actual combustion begins with the ignition of the resulting gases at a temperature of around 225°C (ignition temperature) with the emission of heat. There must be an adequate supply of oxygen available for this purpose. The peak of the combustion process is reached at a temperature of around 300°C. The reaction is now so turbulent that the largest amount of heat is released at this point. Flame temperatures of up to 1100°C are possible.

### 3. Burn-off phase

Glowing charred wood remains after the volatile components have been burned off. This wood burns slowly and almost without flames at a temperature of approx. 800°C.

These processes do not only take place consecutively in a wood fire, however, but also simultaneously. The combustion process is shown in the schematic diagram (s. Figure 1).

## 2.3 The combustion products

From a chemical point of view wood mainly consists of the elements carbon, hydrogen and oxygen.

Wood contains almost no substances which are critical from an environmental point of view, such as sulphur, chloride and heavy metals. Therefore after the total combustion of wood the main gaseous products are carbon dioxide and water vapour as well as a small quantity of wood ash which is the solid combustion product.

If the wood does not combust fully on the other hand, a series of pollutant substances may be emitted, such as carbon monoxide (toxic), acetic acid, phenols, methanol (toxic), formaldehyde, soot and tar.

## 2.4 Your contribution to protecting the environment

Whether your chimney stove burns in a manner that is harmful to the environment or not depends to a large extent on how you operate it and the type of fuel you use (see Section 2.1).

The following hints are intended to help you with this:

- Use only dry wood, leaf-wood like birch and beech are most suitable. (see Sections 2.6 and 2.7).
- Only use small pieces of wood to light the fire. These will burn more easily than large logs and the temperature required for total combustion of the wood will be reached more quickly.
- Do not place too much wood in the stove at one time. It is better to add smaller quantities more frequently. The quantity of wood must always be adjusted to the amount of heat required.

The quality of the combustion process can be checked very easily by means of the following features:

- *The colour and characteristics of the ash.* If the combustion process is

good the result will be fine white ash. Dark colouration indicates that the ash contains charcoal residue. The burn-off phase in this case has been incomplete.

- *The colour of the flue gases emitted from the chimney.*

In this respect remember the following: the less colour in the flue gases emitted from the chimney, the better the quality of the combustion process.

## 2.5 Heating between seasons

Between seasons (in spring and autumn) you may experience draught difficulties in the chimney if the outdoor temperature is over 16°C. If no draught can be created at these temperatures by a quick fire (temporary generation of great heat by rapidly burning paper or thin wood chippings) you should not light the stove.

## 2.6 Wood moisture content and calorific value

The calorific value of the wood depends largely on the wood moisture content. The more water the wood contains, the more energy must be used to evaporate it. This energy is then lost for heating. The more moisture the wood contains, therefore, the less its calorific value. An example: freshly cut wood has a moisture content of approx. 50% and a calorific value of around 2.3 kWh/kg; wood which has been well dried in the air, on the other hand, has a moisture content of approx. 15% and a calorific value of around 4.3 kWh/kg. Therefore, if you use very moist wood you will have around half the heat output with the same quantity of wood than when you use dried wood. To be also considered is the fact that if you burn moist wood, the resulting water vapour can condense in the flue pipe or chimney. This can lead to pitting or the chimney becoming sooted up. Furthermore, if the wood has a high moisture content the combustion temperature is reduced which prevents total combustion of all the wood components and causes considerable pollution. The energy content of the unburned wood is also

lost.

It is quiet plain, therefore, that burning inadequately dried wood is irresponsible both from an economical and an ecological point of view.

## 2.7 Drying and storing wood

As explained under Section 2.6 low wood moisture content is of great importance. Therefore, the following provides a few tips on how to dry and store wood.

- Wood needs time to dry. It will dry in the air outdoors after approx. one to two years if stored properly.
- The wood should be stored ready for use after being sawn and split. This ensures rapid drying because smaller pieces of wood will dry better than logs several metres in length.
- Your logs should be stored in a ventilated, if possible sunny position and be protected from rain (ideally facing south).
- Leave a hand's width between the individual piles of wood so that air can get in between them and remove any escaping moisture.
- Do not cover the piles of wood with

plastic foils or tarpaulins because the moisture will then be unable to escape.

- Do not stack fresh wood in a cellar since it will rot rather than dry for the lack of air movement.
- Only store dried wood in dry cellar rooms.

## 2.8 Assessment of the wood moisture content

For you as a stove user it is important to be able to assess whether your wood is air dry (with a residual moisture content less than 20%) or whether it must be stored for a longer period.

The air-dried condition has been reached when the moisture content of the wood is in balance with the ambient air, i.e. it no longer dissipates moisture to the air and no longer takes moisture out of the air. The weight of the wood is characteristic for the moisture balance. One method which allows you to assess the moisture content is described here. You must observe the points listed under Point 2.7 as a basis for optimum wood storage. Then proceed as follows:

- Take a log from various points in your

wood pile.

- Mark these logs to enable you to identify them easily.
- Now weigh the logs on a kitchen scale and make a note of their weights.
- Now dry the logs artificially for several hours (eg. in a warm stream of convection air from the stove).
- Then placed the logs back in the wood pile where they were.
- Weigh the logs again one or two days later.

The moisture balance will be disturbed by drying the logs. The logs will therefore try to reproduce the balance after being dried by taking moisture out of the air. If they achieve the same weight as when they were first weighed they have absorbed the same quantity of water which they lost through being dried. This means that the moisture had balanced out before the wood was weighed for the first time.

If, on the other hand, they are still lighter, there was more water in them before they were weighed for the first time than required for the moisture balance. Therefore, these logs have to be stored for a while longer.

## 2.9 Cleaning and Maintenance

The chimney stove and the smoke tubes should be inspected each year - if required, even more often - at the end of the heating period for deposits. If any deposits are existing, the chimney stove and smoke tubes shall be cleaned. For that purpose, the top thermo-plate in the fire box can be moved upwards. The upper emissions can be accessed via the respective flue gas pipe which is not connected. Any soot or dust deposits can be brushed off and vacuumed.

We will have to provide the steel stoves with a finish of heat-resistant paint. However, heat-resistant stove lacquers do not provide protection against corrosion, with the result that a rust film may form in unfavourable conditions, for example caused through:

- the use of too much water for cleaning the floor/base plate area.
- spilt water from boilers or dishes.
- the positioning in "moist rooms", e.g. conservatories, or the intermediate storage in the building carcass/garage

Clean areas covered in a rust film with emery paper and spray them with stove lacquer spray (available at your HASE specialist dealer).

Do not use any detergents containing acid (e.g. citrus or vinegar detergents) to clean the steel parts. Sufficient cleaning can be achieved by wiping the steel parts with a slightly dampened cloth.

When the stove is properly operated, the secondary air simultaneously forms an air curtain in front of the pane and delays the sooting of the glass.

A time-tested environment friendly method for cleaning the ceramic glass panels with materials which are available in every household is as follows:

Take:

- 1 ball of kitchen paper, newspaper, or the like
- wet it
- dip it into the cold wood ash
- wipe the glass with it
- wipe the glass with a clean ball of paper and the job is done.

### 3.1 The fuel selector

Before commissioning the stove, the fuel selector should be set to the type of combustible that is to be used. The automatic combustible facility ensures that the division of the supplied air into primary air and secondary air will be optimized.

### 3.2 The shaking grate

The shaking grate serves to dispose of any non-burned residues (ash) and transfers them into the ash safe. The shaking grate will be actuated by means of a slide positioned on the left below the fire box.

By actuating the slide of the shaking grate, any loose ash will be transferred into the fire box. In the case that brown coal briquettes are used, the shaking grate must be opened by pressing in the slide.

### 3.3 The ash drawer

The ash drawer must be emptied in good time. Ash piling up can prevent primary air from getting to the stove.

**Please make sure that the ash is only removed when it is cold.**

The ash drawer stands in its turned over lid when collecting ash. To empty the drawer pull out the lid, turn it over and push it on the ash drawer. This closes the ash drawer and prevents flying ash. This, in turn, keeps your home clean when you dispose of the ash. The ash drawer is put back into the stove by proceeding in the reverse order.

### 3.4 The throttle flap

The throttle flap is fitted in the flue pipe and is used to regulate the flue gas flow. It is not fitted in every flue pipe and is also not absolutely essential. The influence of the throttle valve on the burn off is dependent on many factors, including the chimney height and cross section, the indoor and outdoor temperature, etc. When the handle is horizontal the throttle flap is closed.

If the fire box door is opened during the firing process, first of all the throttle valve must have been opened.

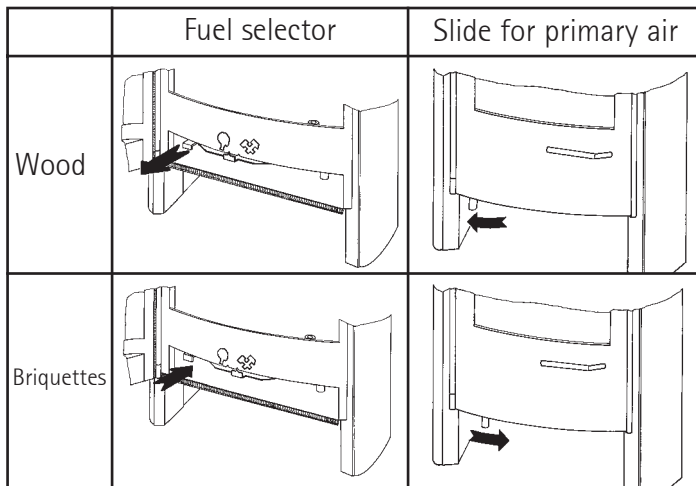
### 4.1 Initial operation


Please take into account that the lacquer of the stove will be hardened only after about 2 to 3 operations. It is in particular during the initial operation that odors may be released. That is why we would like to ask you to place no objects on the stove cover before or during this period and to ensure that the room is sufficiently aired. Keep the fire box door slightly open during the first 30 minutes to prevent the sealing tape from burning into the varnish.

### 4.2 Heating with wood

#### Lighting

It is important to pass through the lighting phase quickly since during the lighting or firing phase, higher emission values may occur if mistakes are made in regulating the stove. Therefore, we would be grateful, for the sake of the environment, if you would closely observe the following. The stove should always be lit with wood.



Procedure	Position of control elements
- Open the throttle flap entirely, if your flue pipe has one	- Position handle along the length of the pipe
- Open fire box door	
- Set operating elements for wood as combustible	- Set fuel selector to 
- Open slide for primary air	- Pull slide for primary air to the right
- Sweep remaining ash and any unburned charcoal into the middle	
- Place screwed up newspaper, non-coated cardboard or wood wool into the middle of the firebox	
- Place dry wood chippings around the lighting material	
- Place 3 - 4 small pieces of wood around the outside	
- Light the material at several points	
- At the beginning of the burn, the fire box door should remain slightly opened to prevent condensation on the glass	
- Close the door when the wood is burning on all sides	
- After a short time add 3 - 4 small logs in lengthwise direction	

## How to continue adding more wood

After the operating temperature has been reached, it is possible to operate the stove whilst producing very little pollution if a few basic rules are followed. The LOGGIA and NIZZA have a nominal heating capacity of 5 kW. This means a fuel feed rate of approx. 1,6 kg (2 logs) of wood or 1,3 kg (2 pieces) of brown coal briquettes per hour. CORSO and LIMES have a nominal heating capacity of 6 kW. This means a fuel feed rate of approx. 2 kg (2 logs) of wood or 1,6 kg (2 pieces) of brown coal briquettes per hour. The length of the logs is 25 - 30cm. The maximum quantity for the LOGGIA and the NIZZA is 1.8kg of beech logs and

1.5kg of brown coal briquettes.

The maximum quantity for the CORSO and LIMES is 2.2kg of beech logs and 1.8kg of brown coal briquettes.

**If the maximum quantity is exceeded, there is a danger of overheating the appliance, and this can cause damage to the stove, and cause a fire in the chimney.**

You can use these values as a guide. During the lighting phase you should add small logs. After heating temperature has been attained larger logs in length wise direction may be added.

**The output of heat should only be regulated by the quantity of wood added.**


## 4.3 Heating with brown coal briquettes

In addition to wood you can also use brown coal briquettes to heat your stove.

In accordance with the First Ordinance on the Implementation of the Federal Emission Reduction Law the fire box doors must be closed when burning briquettes.

Please note that heating with brown coal briquettes causes a sooty deposit on the glass panes which cannot be prevented.

Procedure	Position of control elements
- Open the throttle flap entirely, if your flue pipe has one	- Position handle along the length of the pipe
- Slowly open the fire box door, so that no smoke is emitted into the room	
- Insert piece of wood in lengthwise direction	
- Close slide for primary air	- Push slide for primary air to the left
- Only add one layer of fuel	
- Close door	
<i>More fuel should be only added just before the flames from the previously used fuel die down.</i>	

Procedure	Position of control elements
<i>Lighting</i>	
- Light with wood as already described	<i>See brief operating instructions for wood!</i>
<i>How to continue heating</i>	
- As soon as a basic glowing fire is reached, insert 2-3 briquettes in the center of the fire box bottom	- Push in fuel selector to  - Push downwards shaking grate slide - Push slide for primary air to the right

5. Safety

Never use **methylated spirits; petrol or other flammable fluids to light the stove.**

**Children should never be left unattended near the burning stove.**

5.1 Safe distances

With flammable materials (eg. wood panelling, plastic cladding and curtains) the safe distance to the side and behind the stove is at least 20 cm. Flammable floor materials (eg. carpet, wood or plastic flooring) must be protected to the front and side with a non-flammable covering (eg. tiles, marble or steel plate) (see Fig. 1).

According to DIN 18891 the following safe distances are valid when using a covering for the floor:

CORSO:

A = 72 cm      B = 62 cm

LOGGIA, NIZZA :

A = 64 cm      B = 54 cm

LIMES:

A = 68 cm      B = 58 cm

with fire rod:

A = 50 cm      B = 30 cm

Distance of combustible materials:

CORSO, LOGGIA, LIMES:

C = 20 cm

NIZZA: C = 25 cm

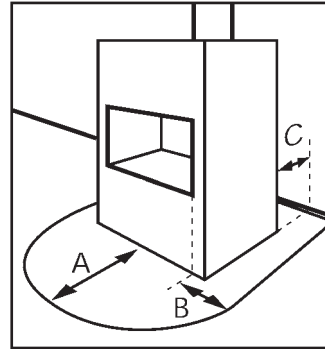


Fig. 1: Dimensions of bottom plate

5.2 Radiation zone

No flammable or heat-sensitive materials are to be left within a distance of 80 cm in the radiation zone (see Fig. 2).

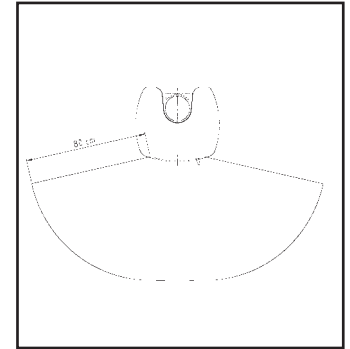


Fig. 2: Radiation zone

Problem	Cause	Remedy
The wood does not light or only does so slowly	The wood is too thick The wood is too damp The air supply is too low	Section 4.2 Continue heating Section 2.8 Section 4.2 Lighting
The wood burns without a bright, yellow flame, smoulders or even goes out	The wood is too damp The air supply is too low The throttle flap is closed too far	Section 2.8 Section 4.2 Lighting Section 3.5
Too much soot is generated, the insulating tiles do not stay clean	The wood is too damp The air supply is too low The quantity of wood is too small and thus the combustion chamber remains too cold	Section 2.8 Section 4.2 Continue heating
Although the fire burns well the stove does not get warm	The chimney draught is too strong	Section 3.4
The wood burns up too quickly	The chimney draught is too strong The wood has been cut too small Incorrect setting of operating elements	Section 3.4 Section 4.2 Section 4.2
Smoke escapes into the room while the stove is burning	The air supply is too low The throttle flap is closed too far The chimney cross section is too small The flue gas ducts in the stove pipe or chimney are badly sooted The wind is blowing down the chimney	Ensure supply of fresh air (i.e. open the window) Section 3.3 Fit a draught booster (flue gas fan) Section 2.9  Fit a wind guard on the chimney pot
The chimney becomes wet and sooty, condensate runs out of the stove pipe	The wood is too damp The flue gases are too cold The chimney is too cold The chimney cross-section is too large	Section 2.8 The stove pipe is too long and must be insulated The chimney must be insulated

If you have any problems or questions please ask your dealer or your local chimney sweep.

Type description: **LOGGIA**

Standard reference: chimney stove to DIN 18891-1

The following data shall apply to the dimensions of the chimney in accordance with DIN 4705:

**Operation with fire box closed (design type 1)**

Nominal thermal output	5 kW
Waste gas mass flow rate	6 g/s
Waste gas outlet temperature	330 °C
Minimum delivery pressure at nominal thermal output	0,11 mbar
Minimum delivery pressure at 0,8x minimum thermal output	0,09 mbar

The nominal thermal output of 5 kW indicated on the unit's type plate will be sufficient for **34 - 88 m<sup>3</sup>** depending on the isolation of the house (volume in accordance with DIN 18893)

	Height	Width	Depth
<b>Oven</b>	83,5 cm	54,2 cm	40,9 cm
<b>Fire box</b>	35,0 cm	31,0 cm	34,0 cm
<b>Fire box opening</b>	1023 cm <sup>2</sup>		

**Pipe** diameter internal 150 mm

Connection branch **top**

(Rear installation possible)

Height for top installation	81,1 cm
Height for rear installation, centre of the pipe	69,0 cm

**Combustion air inlet**, diameter internal 100 mm

Height for the installation of a connection piece for fresh air, centre of the pipe 20,0 cm

Type description: **NIZZA**

Standard reference: chimney stove to DIN 18891-1

The following data shall apply to the dimensions of the chimney in accordance with DIN 4705:

**Operation with fire box closed (design type 1)**

Nominal thermal output	5 kW
Waste gas mass flow rate	6 g/s
Waste gas outlet temperature	330 °C
Minimum delivery pressure at nominal thermal output	0,11 mbar
Minimum delivery pressure at 0,8x minimum thermal output	0,09 mbar

The nominal thermal output of 5 kW indicated on the unit's type plate will be sufficient for **34 - 88 m<sup>3</sup>** depending on the isolation of the house (volume in accordance with DIN 18893)

	Height	Width	Depth
<b>Oven</b>	98,6 cm	51,6 cm	47,2 cm
<b>Fire box</b>	35,0 cm	31,0 cm	34,0 cm
<b>Fire box opening</b>	1023 cm <sup>2</sup>		

**Pipe** diameter internal 150 mm

Connection branch **top**

(Rear installation possible)

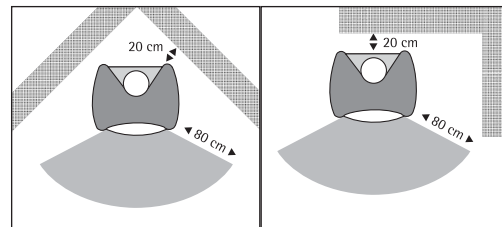
Height for top installation	88,8 cm
Height for rear installation, centre of the pipe	- cm

**Combustion air inlet**, diameter internal 100 mm

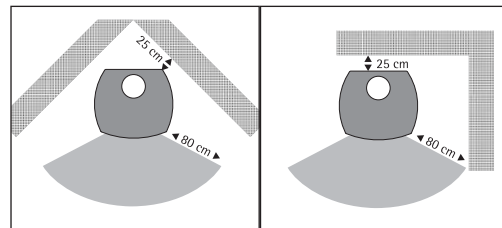
Height for the installation of a connection piece for fresh air, centre of the pipe 20,0 cm

Safety distances from flammable materials:

**LOGGIA:**



**NIZZA:**



Type description: **CORSO**

Standard reference: chimney stove to DIN 18891-1

The following data shall apply to the dimensions of the chimney in accordance with DIN 4705:

**Operation with fire box closed (design type 1)**

Nominal thermal output	6 kW
Waste gas mass flow rate	5,5 g/s
Waste gas outlet temperature	310 °C
Minimum delivery pressure at nominal thermal output	0,12 mbar
Minimum delivery pressure at 0,8x minimum thermal output	0,10 mbar

The nominal thermal output of 6 kW indicated on the unit's type plate will be sufficient for **48 - 124 m<sup>3</sup>** depending on the isolation of the house (volume in accordance with DIN 18893)

	Height	Width	Depth
<b>Oven</b>	107,5 cm	53,5 cm	42,5 cm
<b>Fire box</b>	45,7 cm	31,4 cm	35,8 cm
<b>Fire box opening</b>	1077 cm <sup>2</sup>		

**Pipe** diameter internal 150 mm

Connection branch **top**

(Rear installation possible)

Height for top installation	105,7 cm
Height for rear installation, centre of the pipe	94,0 cm

**Combustion air inlet**, diameter internal 100 mm

Height for the installation of a connection piece for fresh air, centre of the pipe 20,0 cm

Type description: **LIMES**

Standard reference: chimney stove to DIN 18891-1

The following data shall apply to the dimensions of the chimney in accordance with DIN 4705:

**Operation with fire box closed (design type 1)**

Nominal thermal output	6 kW
Waste gas mass flow rate	5,5 g/s
Waste gas outlet temperature	280 °C
Minimum delivery pressure at nominal thermal output	0,12 mbar
Minimum delivery pressure at 0,8x minimum thermal output	0,10 mbar

The nominal thermal output of 6 kW indicated on the unit's type plate will be sufficient for **48 - 124 m<sup>3</sup>** depending on the isolation of the house (volume in accordance with DIN 18893)

	Height	Width	Depth
<b>Oven</b>	119,1 cm	61,0 cm	45,5 cm
<b>Fire box</b>	33,5 cm	31,4 cm	35,8 cm
<b>Fire box opening</b>	1052 cm <sup>2</sup>		

**Pipe** diameter internal 150 mm

Connection branch **top**

(Rear installation possible)

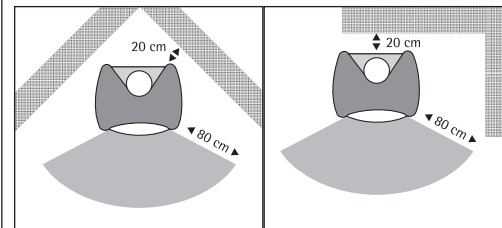
Height for top installation	113,7 cm
Height for rear installation, centre of the pipe	101,3 cm

**Combustion air inlet**, diameter internal 100 mm

Height for the installation of a connection piece for fresh air, centre of the pipe 20,0 cm

Safety distances from flammable materials:

**CORSO:**



**LIMES:**

