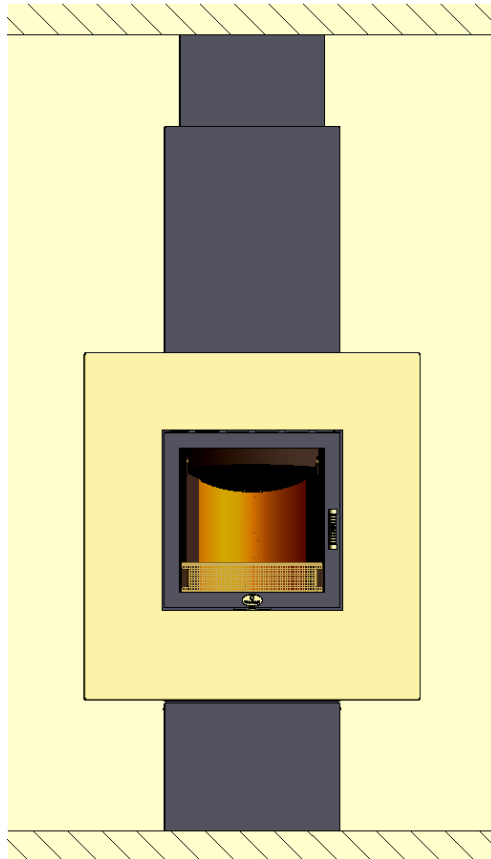


STOVE INSTALLATION AND OPERATION MANUAL



M A X B L A N K
HIGH QUALITY

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Foreword

We congratulate you on the purchase of a stove from the stove manufacturer Max Blank. With a product from Max Blank you have chosen top quality down to the last detail.

Your new stove with special wood-combustion, if properly installed in compliance with the instructions, will not only be a beautiful, but also an efficient and above all environmentally conscious heater for many years.

To make it easier to familiarize yourself with the operation of your new stove, we ask that you to read this manual carefully. Keep it and observe the safety instructions.

The construction of the stove must be carried out by a registered stove specialist, as safety and functionality depend on the proper structure. In case of improper installation and operation, the warranty is invalidated.

**Good luck and a pleasant living atmosphere wishes you
your stove manufactory: Max Blank.**

Important notes are printed in bold and should receive special attention.

In addition, national and European standards, as well as the respective country-specific regulations (e.g. state building regulations and firing directory FeuVO) and the valid local regulations must be observed!

We are not liable for misprints and changes after printing.

1. Installation of the stove

1a) Delivery

Your new Max Blank stove has been delivered to you safely packed. The firebox elements (chamotte) are packed separately for weight reasons and for ease of installation. You can find those in the stove furnace or on the packaging.

Please check the delivery of the stove immediately after receipt for completeness, possible damage and defects. Visible external damage must be reported immediately to the dealer and noted on the bill of loading. A late complaint is excluded.

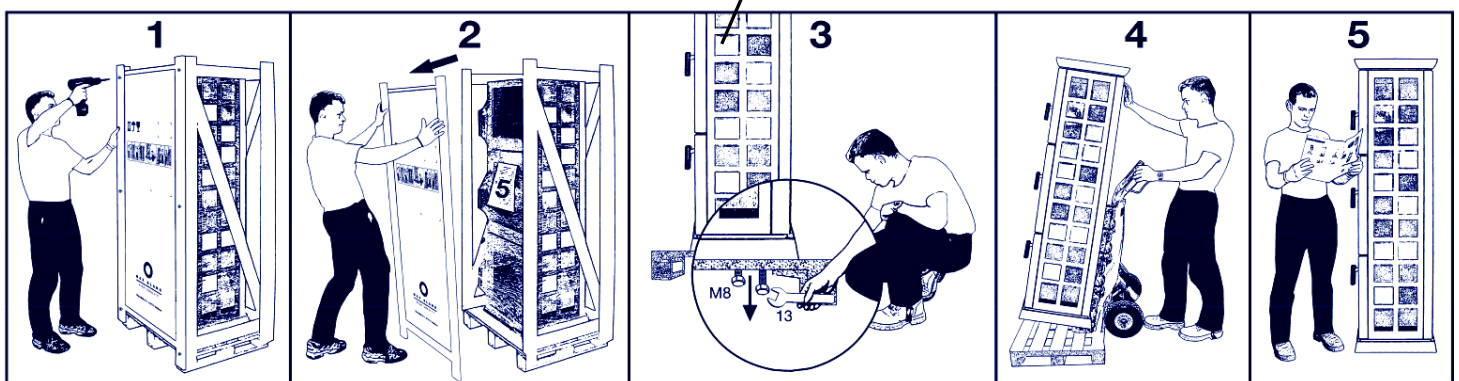


1b) Unpacking

All cardboard and plastic parts are recyclable. The wood parts are not surface treated and can be used as heating materials for your stove.

Please note the unpacking tips on the outside of the transport rack. Please open the packaging carefully, so that your stove is not damaged through the packaging (e.g. do not press the blade through).

On the fire glass of the stove, the installation and operation manual of your stove model are enclosed.



1c) Control

Check the delivered and unwrapped products for completeness (e.g. loose parts such as covers, screws, baffle plates, standing grid, etc.). Please check the stove for hidden defects. These must be reported within 3 days after delivery

1d) Installation place requirements

In order for the current regulations in fire protection and chimney matters in Germany to be met, the competent district chimney sweep master must always be informed. After examination of the stove installation, he decides of the approval. Without previous acceptance, the stove must not be put into operation. The locally applicable regulations and rules (building regulations, state building regulations, firing directory FeuVO, etc.) must be strictly observed.

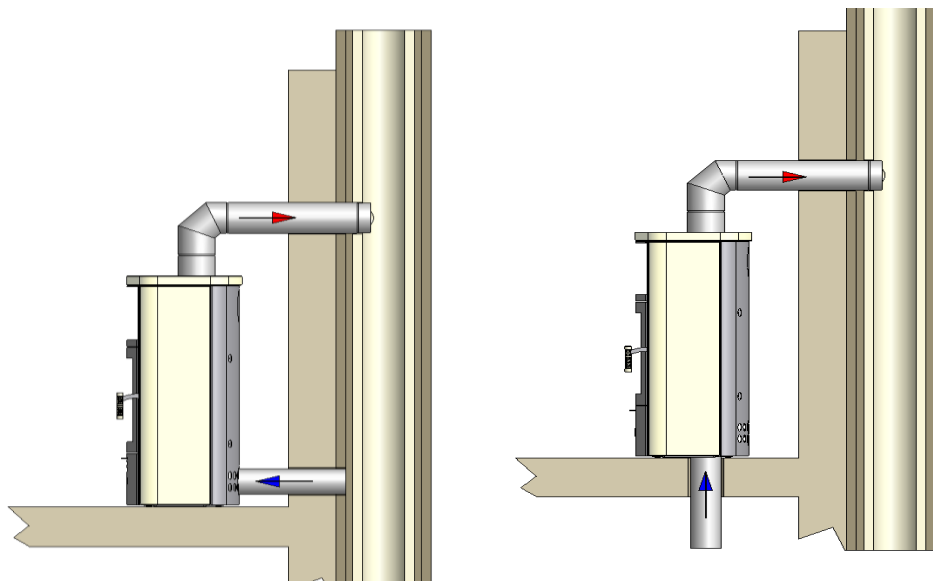
For the heating operation, sufficient room air is needed. Normally, the available air in the installation room is sufficient. For well-sealed windows and doors, as well as for mechanical ventilation and motorized ventilation (such as kitchen extractor hoods, extract air dryers, bathroom and toilet vents), or when operating additional heaters, insufficient air supply may interfere. The stove requires about 40 m³ air / hour. 1 kg of wood requires approximately 4 m³ of combustion air.

In this case, the stove can be provided with an external air connection (if technically possible). As a result, the combustion air can be supplied directly from the outside, from the basement or through the chimney system. It is important to ensure that the supply air paths for the combustion air are not closed.

Heating is not allowed under negative pressure in the room as flue gases can leak.

Before installing the stove, check that the load-bearing capacity of the stove corresponds to the weight of the stove. The quality of a product and the value of the materials used are not reflected in the weight. If the load-bearing capacity is insufficient, appropriate measures must be taken (for example, a load-distribution board or ground anchors with support bolts).

All preparatory work related to the installation and connection of the stove (e.g. wall lining, outside air connection, tile work, etc.) should be completed before installing the stove.



Possibilities for outdoor air connections

1e) Moving stove to installation place

When transporting your Max Blank stove, only approved, well-padded transport aids with sufficient load-bearing capacity must be used, so that neither your device, nor the stove is damaged (scratched). If the stove is transported horizontally, remove the loose components beforehand to avoid damage.

Simplified and safe transport:

If the stove should be too heavy for you during transport, you can dismantle various heavy components in accordance with the installation instructions: e.g. top plate, rear wall, side panels, etc.

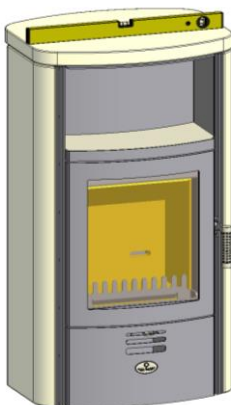
Here you have another option for the difficult transport to avoid possible damage to your stove (damaging corners and edges, scratching surfaces).

Install the stove in its place, taking into account the prescribed wall clearances.

1f) Setup & Installation in the installation manual:

Installation Manual, Chapter 2 or <http://www.maxblank.com/en/technical-information/stove-information/>

Customer information to find in installation instructions, (Type name of your stove and click on your oven model.)



Corresponding to this installation manual, the stove has to be adjusted and aligned horizontally with the spirit level.

2. Attaching the stove

2a) Stove installation

The chimney connection must be carried out professionally taking into account the requirements of the authorities. The stove must be connected to a solid fuel chimney.

Your Max Blank wood burning stove complies with type 1. This allows several heaters to be connected to a chimney. The chimney is sized according to DIN EN 13384 Part 1 or Part 2. For this reason, the spring of the self-closing door must not be removed. The data required for the chimney calculation can be found in the enclosed Installation Manual, Chapter 1 or

<http://www.maxblank.com/en/technical-information/stove-information/>

Customer information to find in installation instructions, (Type name of your stove and click on your oven model.)

Flue pipes are a particular source of danger in terms of flue gas leakage and fire hazard. Please pay special attention when connecting the flue pipes to the legal requirements for flammable materials.

We recommend the use of the original Max Blank smoke tube material, as they are color and quality matched (with no visible welds) on our stoves. The connection was made by a licensed specialist company, which takes into account the separate distances in the area of wood-clad walls or ceilings, when connecting the flue pipe to the chimney.

If the chimney is to be placed directly on top of the stove, the responsible district sweep master can judge, whether the applicable building standards can be complied with.

The stove may be charged in this case with max. 20 kg. If the vertical flue pipes attached to the stove or the chimney exceed the weight, they may have to be absorbed by the building's ceiling.

With the direct vertical chimney connection, attention must be paid on site to the expansion loads of the flue pipes, as well as to the condensate return line.

Make sure that under pressure in chimney is neither too low, nor too high. If the vacuum is too high, we recommend installing a throttle valve in the flue pipe.

If the chimney draft is not optimized, environmental pollution and excessive fuel consumption can occur.

If the chimney draft is too low, which can occur especially in the transitional period (between heating seasons), start a small fire in the chimney (on the bottom) in order to start functionality of the chimney (to have under pressure).

After the stove is connected to a suitable chimney and the flue pipes are properly mounted, the stove is ready for use.

2b) Checklist of the stove (see page 12)

Carefully check with your dealer all the items listed in the enclosed checklist.

2c) Controlling & taking off the fireplace

Before putting into operation, make sure that chamotte, baffle plates (not reversed), flue pipes and moving parts are correctly installed.

The transfer of the Max Blank stove is done by the dealer.

Carry out the first fire together with your specialist dealer, who instructs you in the combustion technology and operation, so that no mistakes occur in everyday use.

For installation or operating errors, which are due to ignorance or non-expert advice, the operator is liable.

3. Safety

3a) General information

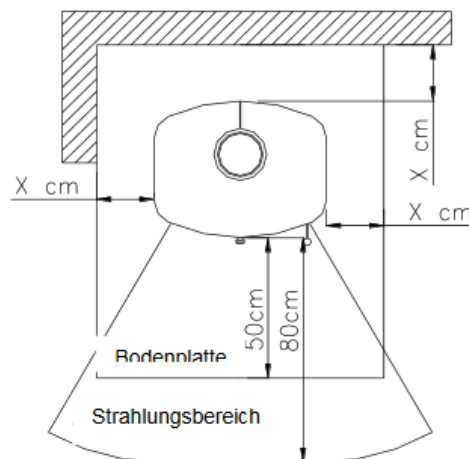
Your stove has been conscientiously developed, manufactured and tested in accordance with DIN EN 13240 for firewood and wood briquettes in the stove manufacture MAX BLANK - High Quality.

Your stove may only be operated with the door closed. Opening the door is only allowed to refuel (to put burning material) or to cleaning.

Observe the lateral and rear safety distances of your stove to **flammable walls and objects**.

These are taken from the installation manual, Chapter 2.

Please make sure that there are no flammable objects within a radius of up to 80 cm **in the radiation area of the firebox** of your stove. Due to the heat radiation there is a risk of fire. (see sketch).



For **flammable floor coverings**, you must protect them with a floor protection plate. The minimum is 50 cm (see sketch).

X = see installation manual Chapter 2 or

<http://www.maxblank.com/en/technical-information/stove-information/>

Customer information to find in installation instructions, (Type name of your stove and click on your oven model.)

Surface temperatures:

When operating the stove, the outer surfaces and the fire glass are heated.

Attention !

Do not touch ! Risk of burns!

Children are particularly at risk here. Please keep away children from the fireplace.

The patented self-cooling handle of your Max Blank stove stays virtually cool, so no protective gloves are required here.

On some models, the stove door is equipped with **magnets**. Magnets can affect the function of pacemakers and implanted defibrillators. Keep a sufficient distance from this magnets if you had such devices implanted.

No structural alterations may be made to the stove and only replacement parts approved by the manufacturer may be used, otherwise the approval and warranty for the stove will cease.

3b) Approved Combustible

In your Max Blank stove, you may only use dry (below 15% residual moisture) and untreated firewood or wood briquettes according to DIN EN 14961-3 (A1). Burning other combustible will void the manufacturer's warranty and affect the environmentally friendly burning behavior of your stove.

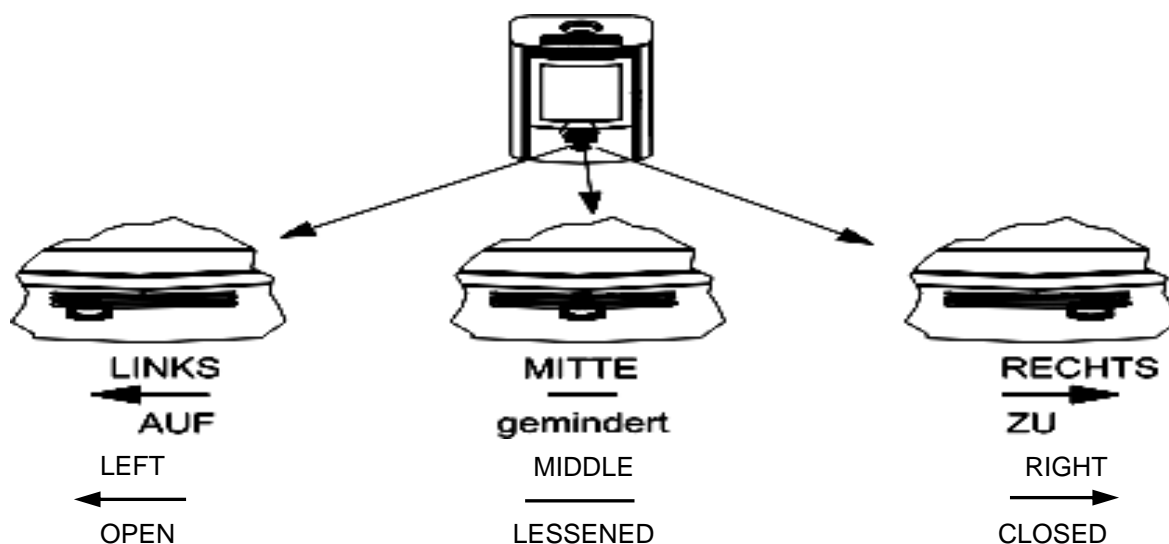
The use of excessively moist combustible may lead to the sooting of your chimney. As a result, highly flammable substances such as soot and tar can be deposited in the chimney interior which create a risk of a chimney fire.

If this happens, close the air valve, call the fire brigade and bring yourself and all the roommates to safety. Have the stove and chimney checked regularly by a specialist.

4. Operation and Heating mode

4a) First fire

Before heating up for the first time, make sure that the combustion chamber firebricks used (and possibly the brick for the oven) are completely dry. Until the first time the operating temperature is reached, the surface seal hardens. This can lead to odor development. To accelerate the remaining hardening, apply the maximum amount of combustible and turn the air regulator to the left. We recommend you to refill several times. Please ensure adequate ventilation of the room during the initial use phase. Please note that the stove should be heated at least 3 times before using the baking compartment when heating with a baking compartment.



4b) Heating with long-lasting combustion

In the patented Max Blank basic stove concept, wood burning takes place from top to bottom on the rustproof chamotte bottom.

Approximately 20 minutes after lighting, the fire should have started properly. Now set the air slide in the middle position. This reduces the no longer required primary air (lower air inlet openings) to a minimum.

Before firing, the combustion air slider must be turned to the left. Thus, maximum combustion air is provided in the furnace to accelerate the heating process.

Fill the furnace of your stove more than half with firewood. On the stacked firewood put small kindling with commercial lighter. Now ignite the fire in the upper part of the firewood pile.



You can find more under <http://www.maxblank.com/en/technical-information/stove-information/>

Customer information to find in installation instructions, (Type name of your stove and click on your oven model.)

Do not use alcohol, petrol or similar fuels for lighting.

Now the controlled burning of the fire starts from top to bottom (according to the basic stove concept). That is, the fire takes piece by piece the required combustible.

With the air slider you can control the intensity of the subsequent burnup. To do this, move the air slider (after a further 15 to 20 minutes) to the right as required (to approx. RIGHT 3/4). Make sure that the fire always receives sufficient air supply to maintain the flame.

Now enjoy the fire in its most beautiful form for the duration of the burn-off without further intervention.

The Max Blank air supply system simplifies operation by controlling primary and secondary air with just one lever.

Danger:

In the above-described stacking of firewood in the combustion chamber burning from below is not allowed!

Important NOTE:

The approximately 6-hour burning period requires a 2 to 3 times adjustment of the air slide position. The position of the slide also depends on your local chimney and flue gas ducts. Also the ideal position of the control flap integrated in the flue pipe, as well as on the daily different air pressure conditions is important.

Likewise, the type of wood, its moisture content and the user behavior can influence the ideal burnup, which can be increased even more by a good operator skill!

Enjoy the fire!

If the above conditions are not fine-tuned, then only heating with short-term burning is possible!

4c) Heating with temporary combustion

When firing for a short period of time, first place the lighter in the furnace, then fill the furnace with firewood. Smaller firing wood should lie directly on the lighter. Fill the combustion chamber with the maximum amount of firewood per hour (corresponds to 2 to 3 medium logs depending on the type of furnace).

See the installation manual, chapter 1

or under

<http://www.maxblank.com/en/technical-information/stove-information/>

Customer information to find in installation instructions, (Type name of your stove and click on your oven model.)



Move the air slider all the way to the left to get enough combustion air into the furnace and ignite the fire.

The laid wood then completely ignites. Move the air slide in the middle position after approx. 20 minutes. After another 20 minutes burn-off control as 4b. Make sure that the required operating temperature of approx. 600 ° C is reached quickly in the combustion chamber.

4d) Refill

Wait until the combustible burns down to the still fiery glow and then refill. **Leave the air slider in the center, slowly open the door, refill the combustible and close the door.**

Now regulate the supply air as needed as described in 4b).

If the fire burned down very far before refilling, leave the air slide in the left position for approx. 5 to 10 minutes for optimal burning of the added wood.

For continuous firing, this process is repeated as often as desired.

After heating and refill of wood, chamotte parts and fireglass can easily set soot, but with increasing furnace temperature also burn freely again.



Power range from 4 to 8 kW:

Reduced heating of your stove is only possible after the start-up phase (after reaching the operating temperature of approx. 600 ° C). Then you can refill as required 1 to 2 logs to achieve the desired lower heating power.

4e) Combustible quantity

The maximum amount of combustible per hour allowed for the stove can be found in the enclosed **Installation manual, Chapter 1**, or at <http://www.maxblank.com/en/technical-information/stove-information/>
Customer information to find in installation instructions, (Type name of your stove and click on your oven model.)

In addition to the quantitative specification, we refer to the qualitative condition of firewood. That is, the wood must not have more moisture than 15%.

The nominal heating time over 3 burns with the maximum amount of combustible per hour should last at least 3 hours.

4f) Stop firing

The fire has burnt down and there is only embers in the furnace (no flames). If you want to let the glow phase react for as long as possible, move the air slider to the far right position (-). The Max Blank stove now gives off heat for a long time.

Otherwise, the stove will cool faster due to the inflowing (cold) fresh air. That is the chimney draws the residual heat from the stove.

If the air slide is closed during a burning fire or after refill of wood on still glowing ashes, the flammable gases still present in the furnace can explode and thereby burst the glass of the stove.

4g) Firing in the transitional period (between seasons)

A wood-burning stove is ideally suited to heat the living spaces during the transitional periods of spring and autumn. It may be that smoke accumulates in the furnace on some days due to weather conditions (mainly in gravure, fog, rain) This is caused by insufficient under pressure in the chimney, as there is too much cold air in the chimney.

Note: Use a sheet of newspaper to ignite small fire at the bottom of the chimney in order to bring the cold air out of the chimney.

If no sufficient draught is obtained, you should refrain from operating your stove.

During the transitional period, lay less wood or increase the time until the next application of the combustible.

4h) Environmentally friendly heating

Too much firewood will overheat, with the result that the furnace will be over-stressed, resulting in poor emission levels.

Too little firewood will not bring your oven up to the required operating temperature. The wood can not burn clean and promotes the formation of soot on the glass and the chamotte walls.

Use only natural, dry wood or wood briquettes.

Your stove is not a waste incineration plant.

4i) Heating with baking compartment

Please note that the oven should be heated at least 3 times before using the baking compartment. In addition, the baking chamber door must not be left unattended during using the baking compartment.

5. Maintenance and cleaning

5a) Ash removal

Due to chimney drought, appropriate flue pipe guide, use of dry hardwood and proper operation, the mineral content of the wood on the furnace bottom as a combustion residue (ash), which under the conditions mentioned are about 1% residual ash (see **Max Blank Wood information**).

You can repeat the heating processes until the height of the air supply openings (side or rear wall) is reached. It is best to use a small metal scoop (or a commercially available ash cleaner) to remove the ashes. Glutinous residues may still be present in the ashes. For this reason, only throw the ashes in incombustible containers and place them on nonflammable supports.

5b) Cleaning the fire glass

Take a damp cloth and use it to clean the **cool** glass. If dirt adheres firmly, dip the damp cloth briefly into the white portion of the ash and use it as an ecological cleaning agent. Then clean the glass with clear water. Commercially available window cleaning agents can also be used. When using liquid cleaners - especially with full glass doors - make sure that it does not flow between the glassedge and the glass. Scouring agents containing detergents are not suitable.

5c) Cleaning the stove and the flue pipes

After each heating season, the stove and the assembled flue pipe parts must be cleaned of residues. It is recommended to use a vacuum cleaner in order to clean the air openings in the combustion chamber.

If the stove is connected directly perpendicular to the chimney, the baffle plates of the stove must be checked for ashes and cleaned after every chimney cleaning. See **installation manual chapter 6**.

To clean painted cladding elements, use a soft cloth moistened with water.
The factory-impregnated natural stone and ceramic elements can only be cleaned with a damp cloth.
Please do not use solvent-based cleaning or abrasives.

5d) Maintenance of the stove

The maintenance involves completely removing the chamotte plates (to better clean the furnace and air supply ducts). To clean the flue pipes, remove the baffles in the stove, see **installation manual, chapter 6**. Make sure that the baffles are inserted correctly (do not install laterally!). Baking compartment and waterfall stove, see **Installation Manual, Chapter 6** or at <http://www.maxblank.com/en/technical-information/stove-information/>
Customer information to find in installation instructions, (Type name of your stove and click on your oven model.)

Cracks in the furnace lining (chamottebrick) are not a defect, but are natural expansion cracks that do not affect the quality of the furnace and the life of your furnace. Chamotte with cracks can be left in the furnace for decades. Only in case of outbreaks an exchange should be made. For more information, see www.maxblank.com.
Only intact seals guarantee the perfect function of your stove. If necessary, replace any loose or worn seals.
Your authorized oven specialist will be happy to take over this service for you. In normal operation, we recommend that controlling the stove after approx. 400 heating days (2 heating periods).

Note: If only dry wood (below 15% moisture content) is used, the maintenance intervals may double. If all the details and parameters are met and only if necessary, the door seal or a chamotte seal is to be replaced!
However, if more humid wood is used, then the maintenance intervals of your heater will be halved very quickly!

5e) Customer service request

We would like to point out that if you follow the rules of chimney and flue pipe guides, if you use dry wood and if you use the stove according to the operation instructions, you can avoid faults and thus save on costly service.

Max Blank stoves are designed and approved for installation as a stove. They must not be installed or rebuilt as a heating or stove insert. Otherwise the official approval and the manufacturer's warranty expire. The liability then passes

to the company responsible for the installation.

Disturbance Important Tips & Hints	Possible reason								Help									
	too little chimney drought	Too big chimney drought	used too damp wood	Too little operation temperature	Too less wood	wrong air regulation	Wrong heating	Sufficient combustion missing	Too big woodchops	Control Chimney drought	Use dry wood and clear of soot	Raising of supply air	Heathn, see operation chapter.4b	Raise Wood amount in furnace	Use Smoke tube throttle valve	use small firewood	Outside air-check	Place of baffle plates
Fire does not burn properly	X									X			X	X		X	X	X
		X												X				
			X								X							
				X						X	X	X	X	X		X	X	
					X								X					
						X						X	X				X	
							X					X	X					
Glass sooted	X									X		X		X		X	X	X
		X												X				
			X								X							
				X						X	X	X	X	X				
					X								X					
						X						X	X					
							X					X	X				X	
Wood burns bad	X									X		X		X		X	X	X
			X								X		X					
					X							X	X					
						X							X					
							X					X	X					
								X				X	X					
Wood burns off bad	X									X		X		X		X	X	
		X												X				
			X								X							
				X						X	X	X	X	X				
					X								X					
						X						X	X				X	X
							X					X	X					
Fire goes out	X									X		X		X		X	X	X
		X												X				
			X								X							
				X						X	X	X	X	X				
					X								X					
						X						X	X					
							X					X	X					
Gloss soot in stove or fuel pipe	X									X		X		X		X	X	
		X												X				
			X								X							
				X						X	X	X	X	X				
					X								X					
						X						X	X					
							X					X	X					

Disturbance	Possible reason	Help
Flue gas escapes during refill or while heating	too little chimney draught	Check whether the connector is free between the stove and the chimney
	Down winds	Install draught regulation in chimney
	Defect sealing	New sealing
	Door was opened or closed too early	Open door in ember phase
		Open door slowly
	Throttle valve set wrong	Regulate throttle valve
Cracks in Chamotte	Natural cracks due to thermal conditions	Cracks emerge naturally and do not impair the functionality of the stove, see chapter 5D
Inclusions and veins	Naturally grown material in natural stone	Natural stone are unique, irregularities are natural and are no defects
Stains on natural stone	Wrong cleaning	Use natural stone cleaner. Use cleaning pad, depending on pollution degree and natural stone
Pops	thermal expansion through too high fresh air supply or too large chimney draught	Thermal pops can occur during too big heat development and cooling arise. They do not mean a defect
		Move air slide to the right
baking		
Too little temperature in the baking compartment	Too less wood	Add wood
	Too damp wood	Using dry wood and clear of soot
	Bad chimney draught	Cleaning stove, chimney and smoke pipes
	Too less draught	Use air slide correctly, see chapter 4d
Fire is not burning correctly		
Steam in baking compartment	Vapor valve closed	Open vapor valve
Fire and water		
Watercourse is running unequally	Water wall adjusted incorrectly	Readjustment of the corresponding set screws
		Align water wall horizontally
	Water leakage uneven Dirt particles settle in the upper area of the water wall	Remove the upper cover and clean / wipe the exit slot with a fine brush Replace the water in the reservoir
Discoloration of the water wall	wrong water (calcareous)	Use distilled water
Watercourse does not start	wrong handling of the remote control	Switch on the on / off switch of the remote control, then use volume control (+) and (-), if necessary switch off and switch on again
	Impeller in pump does not start	Pull out the main plug! Then remove black protective cap from the pump. Tighten the impeller manually. Put the protective cap back on
	too little water in tank	Minimum water level is below
		Pump is switching off automatically
		Refill water
	Float switch defect	By gently shaking the ball turn on the float switch again
Watercourse uneven	Pump is not horizontal	Align the pump horizontally
Pump does not react to Remote Control	Empty batteries	Switch/check batteries

Useful wood information

1. Wood as a natural resource

Wood is a resource that is abundant in nature. It is the oldest combustible of humanity. It has been used for about 400,000 years. Wood is (again) becoming more and more important for us as an energy carrier. It grows relatively fast and fulfills an important function for our environment during this time (production of oxygen).

Crucial for the usefulness of firewood are the heating value and the burning time (see also chapter 6).

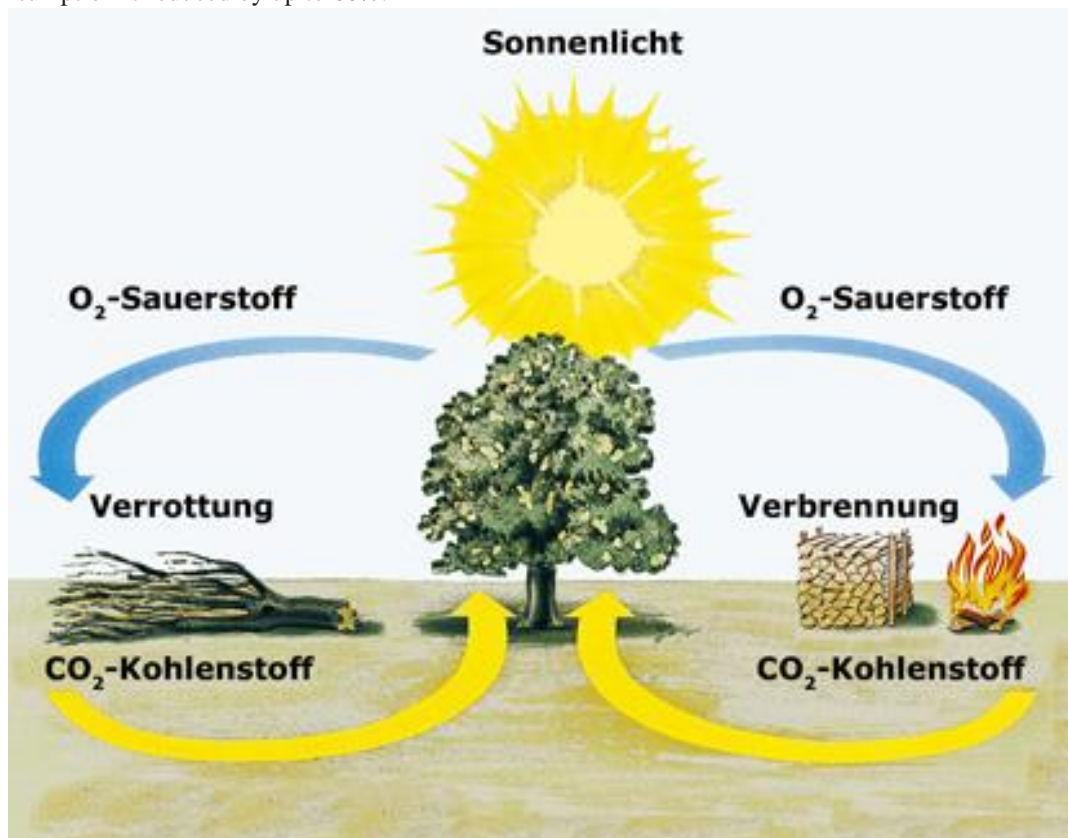
Wood, as a renewable raw material, has a good eco-balance, if it is sustainably grown and obtained. It basically consists of the elements carbon, hydrogen and oxygen. Environmentally critical substances such as sulfur, chlorine and heavy metals are included only to a small extent.

In the complete combustion of wood arises mainly carbon dioxide and water vapor as gaseous substances and to a lesser extent wood ash as a solid combustion residue.

Wood grows faster than biomass as it can be harvested worldwide. If wood rots naturally in the forest, it releases exactly as much CO₂ as if the wood were burned in a Max Blank stove.

2. Our contribution to the environment

The Max Blank - combustion technology works true to ecological standards without electricity. A single control lever optimizes the ratio of primary and secondary air, reducing emissions of carbon monoxide and particulate matter. Also wood consumption is reduced by up to 60%.



As a result, Max Blank stove models meet the strictest standards in the world. Thanks to a highly developed patented wood combustion technology, an efficiency of over 80% is achieved. Massive, up to 70 kg heavy, German quality chamotte stores the healthy radiant heat up to 18 hours in the combustion chamber for example Odin BF. Radiant heat from the combustion chamber is transferred to the complete furnace lining. The ecologically coordinated wood firing technology guarantees a long-lasting ember bed and requires the first addition of wood up to 6 hours after lighting with proper regulation (according to the operation manual). Thus, your wood is burned optimally and thus contributes to the protection of the environment.
See www.maxblank.com

3. Wood briquettes

Wood briquettes according to DIN EN 14961-3 (A1) (quality class A1) are pressed from dry, untreated wood residues, such as wood shavings, under high pressure and without the addition of binders to uniformly large and hard briquettes.



Due to this high compression during briquetting, the natural wood approximates the behavior of lignite with the difference, that the wood briquettes have a lower ash and sulfur content compared to fossil combustible.

Wood briquettes have a very low residual moisture. This is less than 10%.

There are different types of wood briquettes. A distinction is made between hardwood briquettes and softwood briquettes with a gross heating value of 4.3 to 5.2 kW / h.

In addition, bark briquettes are available in the combustible trade. These are pressed from bark shavings under high pressure without binders. The bark briquettes keep the embers in the combustion chamber for a long time.

All wood briquettes must be stored dry to prevent premature decomposition.

4. Wood extraction

Firewood for the firing of wood-burning stoves can be taken from their own forest or forest areas approved by the competent forestry office with the appropriate permission.

Firewood is constantly chopped due to forest maintenance. Both soft and hardwood is taken from the forest and processed.

The firewood can also be bought ready for the oven or as a piece sold by meter. The meter pieces can be cut to the optimum size for Max Blank - High Quality wood stoves of approx. 33-50 cm and splitted further, depending on the type of stove.



5. Storage and drying

Wood is best chopped in the winter months and should be split before storage. This significantly facilitates the drying of the wood.

Wood should be stored for 2 to 3 years in the wood stack protected from rain for air drying. After storage, the firewood should have a residual moisture content of 15%.

When air drying, pay attention to rain protection (roof overhang or tarpaulin cover) as well as sufficient ventilation of the stack, especially from the underside, see picture above.

Freshly chopped wood should not be stored in basements or garages. An all-round covering with tarpaulins is unsuitable.

	Wood-type	heating value KWh/m ³	Heating value in KWh/kg
Hardwood	Oak	2100	4,2
	beech	2200	4,2
	ash-tree	2100	4,2
	birch	1900	4,3
	alder	1500	4,1
	poplar	1400	4,2
Softwood	larch	1700	4,4
	pine	1700	4,4
	Spruce	1600	4,4

	Water content in%	Heating values kWh/kg	Wood consumption in %
Fresh after chopping	55	2,0	ca. 155
damp	35	3,0	17
dry	20	4,0	15
Very dry	10	4,5	0

6. Wood species with heating values

The wood of different tree species has different heating values. Hardwood (such as beech and oak) are particularly suitable as firewood for long-lasting burning. For firing softwood (such as spruce and pine) is more suitable.

7. wood burning

The combustion process requires wood and oxygen (air). Wood must be dry (15% residual moisture), see table under point 5. For the air supply, the room air in the installation room is usually sufficient. Alternatively, the air supply can be supplied from the outside (external combustion air).

When burning wood, the wood is first heated. The remaining water bound in the firewood escapes as water vapor. Then the wood burns with the following residues: carbon dioxide, ash and mineral dust (see sketch). This creates heat in the combustion chamber, which the stove gives off to the outside.

When firing wood ideally, it is important to ensure that the furnace is brought to operating temperature quickly.

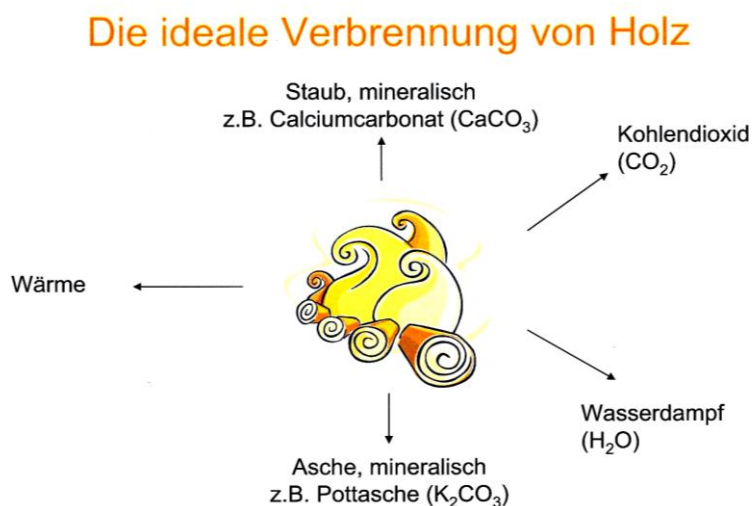
This can be recognized by the free-fired firebricks in the furnace (light color). The long-lasting burn-off (see operation manual, chapter 4 b) can be easily controlled with the single-lever regulation of the air supply. Make sure that the operating temperature is kept in the combustion chamber.

In incomplete combustion, a number of environmentally polluting substances as carbon monoxide, acetic acid, methanol, formaldehyde, carbon black and tar can be generated, These can occur through:

- wet wood
- too low air supply
- insufficient chimney drought
- too less wood
- too large pieces of wood

8. Wood ash

When burning in the Max Blank High Quality stove, only a small proportion of ash is produced. The residual ash contains important minerals such as potassium, calcium, manganese, phosphorus, magnesium and iron. These can be used in the garden as plant fertilizer or for composting. The combustible used essentially determines the amount of ash.



10 years warranty the stove manufacturer Max Blank for the stove combustion steel-substance

We grant you for the original Max Blank - High Quality stove as below:

- a) The 10-year Max Blank manufacturer's warranty covers all steel parts forming the furnace-lined combustion chamber.
- b) The guarantee includes free replacement of the used steel parts, which are unusable due to a material defect, as far as a proper use is no longer guaranteed.
- c) The warranty is limited to 10 years. The 10-year period begins with the date of delivery and requires the submission of the invoice and the guarantee certificate signed by the Max Blank dealer. The warranty is excluded on resale or purchase via Internet service providers.
- d) The guarantee requires the professional installation by the company specialist in accordance with the installation manual and proper operation, in accordance with the operation manual.
- e) The guarantee excludes normal wear and tear, as well as in case of violence, overloading or improper operation!
- f) The warranty does not cover services related to the removal, installation or assembly of elements or parts as described under b).
- g) Excluded from the warranty are physical strains as well elements and parts not listed in a), like the pellet fire accessories, chamotte, glass, gaskets, wearing parts, cladding elements, as well as painted surfaces.
- h) The warranty does not include any further rights, such as those for reduction, cancellation or compensation.
- i) The 10-year period will apply irrespective of whether the guarantee has been used or not. In particular, the replacement of a part or element neither leads to the extension nor to the new beginning of the warranty period.
- j) All other claims remain unaffected by this declaration, all legal and contractual claims from the contract with your Max Blank dealer apply.
- k) During the warranty period, your dealer is responsible for all warranty services.
- l) The present warranty is subject to German law and the exclusive German jurisdiction.

Warranty card is valid only if completed.

We wish you a pleasant and cozy living atmosphere with your Max Blank - High Quality stove. The wood burning technology developed by Max Blank ensures ecological emissions and thus a healthy environment.

Checklist of the stove after installation and connection:

We would like to congratulate you on the purchase of your Max Blank High Quality stove and would like to support you with this checklist to pay attention to all essential points for the installation.

Please take into account that your stove must be removed by a chimney sweep. Your chimney sweep will be happy to answer your questions.

Note: for the electroless pellet fire accessories, please use the separate checklist.

Using this checklist you can compare all relevant transfer points with your dealer.

Stove Model: Fabric number.

The stove has been delivered and installed in a proper condition.

The stove is correctly installed according to the safety regulations and connected to the chimney.

The stove, flue pipes and wall linings are neatly connected and have no functional or visually apparent defects.

The nameplate was placed visibly.

The customer has been instructed in the firing of the Max Blank basic stove concept.

A test firing with the operation manual and use was carried out.

The necessity of using dry firewood was pointed.

It has been pointed out that the correct flue gas and chimney guidance must be observed, the use of dry firewood is mandatory and operation according to the operation manual must be carried out.

Note: if you currently do not have your own Maxless pellet-fire accessories, then ask your stove dealer for the fittable variant.

We wish you warmth and a pleasant fire romance!

Name of the customer:

Location address :

..... ..

Place, Date

Signature Buyer

Signature installer Dealer

Please make a copy of this checklist for your records.

Checklist for transferring the pellet box after installation and connection:

We congratulate you on the purchase of your Max Blank High Quality - Pelletbox and would like to support you with this checklist to observe all important points for the installation.

Please take into account that your stove must be removed by a chimney sweep. Your chimney sweep will be happy to answer your questions.

Note: for the complete stove please use the separate checklist.

Using this checklist you can compare all relevant transfer points with your dealer.

Pellet box model: Serial Number.

Stove Model: Fabric Number.

The pellet box has been delivered in a proper condition and suitable for the corresponding stove.

The stove is correctly installed according to the safety regulations and connected to the chimney.

The design of the chimney was checked.

The minimum delivery pressure is 12 Pa. The maximum delivery pressure is 15 Pa. Over 15 Pa negative pressure is a supply pressure limit.

The Ü-sign was placed visibly.

The customer has been instructed in the firing and functioning of the pellet box.

A test firing with the operation manual and use was carried out.

The need to use only pellets conforming to EN14961-2 (A1) and ENplus-A1 and DINplus certification has been pointed out.

Attention has been drawn to the fact that failure to comply with the delivery pressure and the use of standardized pellets, other than those described above will void the warranty for both the pellet box and the entire stove.

It has been pointed out that the operation should only be carried out according to the operation manual.

Name of the customer:

Location address:

..... ..

..... ..

Place, date

Signature Buyer

Signature installer Dealer

Operation manual for the pellet fire accessory

To connect and operate the Max Blank pellet accessories, the following must be observed and adhered to:

1. Before connecting the chimney or stove, measure the drought at your chimney. If this is between 12 Pa and 15 Pa, nothing is in the way of the operation.
2. If the drought is less than 12 Pa, the stove may only be pellet fired, if your stove specialist changes the chimney drought to provide this minimum output.
3. If the pulling power is above 15 Pa, a throttle valve must be integrated in the smoke tube and adjusted accordingly.
4. Furthermore, according to the pellet accessories instructions, it should be noted that approximately 10 to 15 minutes after lighting, the air slide placed on the oven below the oven door must be set to the middle position and left in this position.
5. Only the wood pellet quality recommended by the manufacturer of pellet accessories should be used. These are the following brands that are available in the pellet trade or from your stove retailer:

German-Pellet
Binderholz
Wohl & Warm

Failure to comply with all or one of the above points, **in particular, that the air valve lever may only be brought to the center**, not only your pellet accessories but the complete heater will not reach the manufacturer's long-term desired life and will wear out before.

The manufacturer can prove at any time, which of the instructions were not observed and adhered to. Then all goodwill and the warranty expires.

Of course, you can then replace the worn pellet box and buy the box **without cover** in the round versions at your stove dealer. In the rectangular version you can buy the exchangeable **special hole bottom**.

We thank you for your careful heating and wish you pleasant days with the beautiful fire.

Max Blank

WARRANTY CARD

Händlerstempel / Dealer's Stamp / tampon du concessionnaire

Unterschrift Fachhändler

angeschlossen von / Installed by / raccordée par

Vorname

Name

Straße

PLZ Ort

E-Mail

Unterschrift

Kaufdatum / Date of purchase / date d'achat

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Modell / Name of Model / nom du produit

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Serien No. / serial no. / no. de série
(siehe Typenschild / See manufacturer's plate / voir plaque signalétique)

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Kunde / Customer / Client

Vorname

Name

Straße

PLZ Ort

E-Mail

For service questions, please contact your dealer.
(see dealer stamp)

service@maxblank.com Fax 0049 (0) 9082-2002 www.maxblank.com

This Warranty Certificate is valid if you return this sheet to the beneath address within 30 days of acceptance of the Stove with both sides filled and signed.

Max Blank GmbH - Klaus-Blank-Strasse 1 - D-91747 Westheim

Errors, changes in construction, design, colors and scope of delivery as well as printing errors reserved.

WARRANTY CARD

Händlerstempel / Dealer's Stamp / tampon du concessionnaire

Unterschrift Fachhändler

angeschlossen von / Installed by / raccordée par

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Modell / Name of Model / nom du produit

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Serien No. / serial no. / no. de série
(siehe Typenschild / See manufacturer's plate / voir plaque signalétique)

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