

Walltherm®



**Der erste wasserführende Kaminofen
mit Holzvergaserbrenntechnik**

The first hydronic wood gasification stove



Improvement
is the way
from the primitive
across the complicated
to the simplest solution



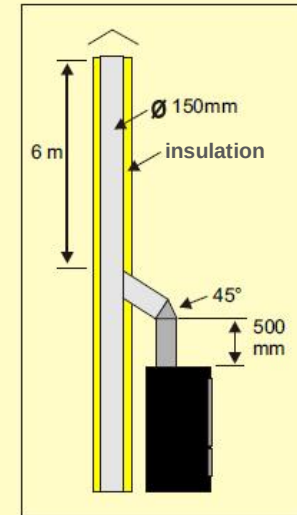
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technique:

Chimney requirements

- 20 ft / 6 m length
- 6 inch smoke pipe
- insulated chimney



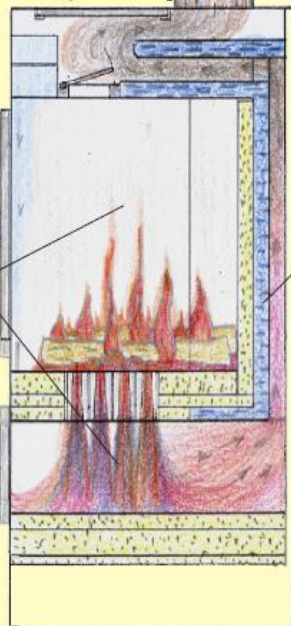
Smoke temperature gauge

Hot plate

The Walltherm has two combustion chambers. The upper combustion chamber burns the wood. The hot gases are moved to the lower combustion chamber where they are burned with a very high temperature. The smoke heats the water in the water jacket.

Due to the gasification process and the water-bearing heat exchanger the Walltherm reaches a very high efficiency
93% LHV / 86% HHV

For real wood fans:
Both doors include heat-resistant glass to watch the two fires.



Heat ratio (without insulation)



water



ambient air

Heat output rate	14,9 KW
Heat ratio (water/air) without insulation	70% wasserseitig, 30 % strahlungsseitig
Efficiency (LHV/HHV)	93 % / 86 %
Dust / particular manner	24 mg/Nm³
External air supply (bottom)	Ø 180 mm
External air supply (back side)	2 x Ø 100 mm od. 200 x 100 mm
Operating pressure	2 bar/ 30 psi
Natural draft	min. 12 Pa - 15 Pa* max. 20 Pa
Weight	ca. 275 kg
Water capacity	25 lt
Volume upper combustion chamber	55 lt
Flue connection	Ø 150 mm
Smoke current	38,5 kg/h
Smoke gas temperature	ca. 120 - 140 °C
Smoke gas temperature (preheating)	ca. 250 - 300 °C
Fuel	Dry wood only (less than 20% moisture content)

Warranty: 5 years on stove body (excluding wear parts)
2 years on fittings and electrical parts

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Model Königspitze

The **Walltherm®** is the **first** hydronic wood stove working with a gasification process.

The **Walltherm®** brings the efficiency of gasification into the living room showing flame pictures in the two combustion chambers.

The Walltherm® works for space heating and for domestic hot water. Especially in the winter it will convey a special atmosphere and comfort.

The **Walltherm®** has two combustion chambers. The wood is burned in the upper combustion chamber. This creates wood gas that is brought to the lower combustion chamber. We add additional air and burn the gas with a very high temperature. (up to 1000°C)

The heat output rate of the **Walltherm®** is 14.9 kW/51,000BTU. The heat ratio air to water is 30/70%. This means 30% of the heat output rate goes to the ambient air and 70% are stored in the water and can be used for domestic hot water and/or space heating.

The **Walltherm®** has a consequently low fuel use and is high efficient with a very clean burning.

The **Walltherm®** works without fans just by natural draft.

The efficiency is formidable. The wood gas flame creates temperatures up to 1.000°C and the flue gas temperature drops down to about 120°C. The difference is used environment-friendly and with clean-exhaust.

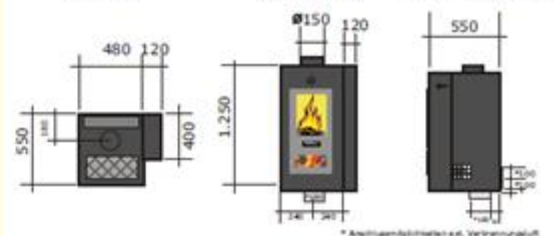
Model Königspitze

This model is most in demand, lean and precious.
Available colors: back and cast iron grey

Scope of supply:

- shovel, brush and poker
- steel brushes for the flues
- safety functions
- fittings
- thermostat
- temperature gauge
- pressure gauge

Dimensions model Königspitze (mm):
view from: top front right side



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Model Königspitze

Wood & Sun – a great marriage

Walltherm® combined with a Wallnöfer solar thermal system

PSES heating solutions use wood & sun to create your heating demand for space heating and domestic hot



The powerful solar thermal collectors harvest the energy in the sun-drenched months of the year.

In the cold time of the year the Walltherm will do the heating job.

This is a perfect combination between the renewable energy sources wood and sun to get heat all over the year.

Especially wood fans love this combination.

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QUICK – insulation kit for model Königspitze

You would like to reduce markedly the heat to the ambient air ?



You have a smaller room in a well-insulated house or a passive house?

You would like to have less heat to the ambient air?

Using the QUICK-insulation kit and IR glasses in the doors will reduce the heat to the ambient air by about 50%.

The elements of the QUICK kit are interlocked. Screws are not required. You will not have to drill holes.

It is also possible to start with the standard model and install the insulation kit later.

The insulation kit covers all sides of the *Walltherm* and the top of the stove excluding the cover of the fittings.

available colors:

- black
- grey
- honeybrown



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Model Königspitze

You would like to change the design ?

You would like less radiant heat ?

Cover

both sides and the back with stainless steel or colored steel plates

and the top with a soap stone

use IR glass to reduce the radiant heat through the doors

cover the front plate with stainless steel or regular colored steel



Customize the look of the stove with different front-plates

The covers at the side and back reduce the radiant heat up to 30%

The covers cannot be combined with the QUICK insulation kit



stainless steel



edel-rust



honey brown



rose-red



black



cast-iron grey



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Model Wilder Kaiser

The model **Walltherm®** Wilder Kaiser can be covered with ceramic, stones or tiles.

You are able to combine craftsmanship with modern high efficient heating technology

Info model Wilder Kaiser

The stainless steel doors of the model Wilder Kaiser are 11 cm / 4 inches in front of the stove.
This makes it possible to cover the stove with ceramic or stones.
The scope of supply includes a stainless steel frame.

Important.

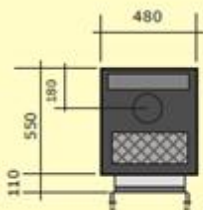
Access to the cleaning openings and water-bearing parts must be guaranteed

The model Wilder Kaiser is just the stove body.
The covering will be done by your carpenter.
The pictures are just samples how it could be done.

Please ask for the special requirements for model Wilder Kaiser

Dimensions model Wilder Kaiser:

Top view

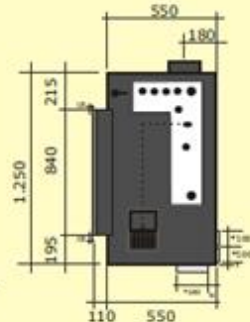


Dimensions in mm

front view



right side





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