



# Power Strength & Energy Solutions Ltd.

## Walltherm - Wood Stove and Wood Boiler

**The future belongs to the renewable energy**

**Our motto:**

*independence through renewable local energy sources and intelligent heating solutions.*

We are the distributor of clean non-polluting wood stoves/wood boilers and solar or wind generated power solutions for all your energy needs placed in Nova Scotia for customers all over Canada.

In our product range you will find wood stoves – wood boilers, solar space heating systems, solar domestic hot water systems, individual solutions and requirements, storage tanks, pump stations, controlling systems, corrugated insulated pipes and pipe insulation as well as power producing PV Systems and wind turbines.

We are a system provider for renewable heating and power solutions.

The Walltherm is the first natural down-draft wood gasification boiler for the living room.



**Königspitze**

The Walltherm is tested to the following standards:

UL 1482, ULC-S627, UL391, CSA B366.1M91, CSA B415.1-10 & CAN/ULC-S627-00

It meets the EPA Hydronic Heater Program Phase II particulate emission level of max. 18 gr/hour and 0.32 Lb/mmBTU

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The Walltherm is a wood boiler and can heat your whole house and your domestic hot water. The Walltherm has a consequently low fuel use according to an efficiency of more than 90% (LHV).

The wood stove/boiler can be connected directly to the central heating (flow and return) system or to a (energy) storage tank .

The heat output rate of the Walltherm is 14,9 kW / 51,000 BTU  
30 % of the rated heat to the ambient air – 70 % to the water.

We offer the models Königspitze and Wilder Kaiser




## Technical data

Rated Overall Heat Output	14,9 kWh / 51,000 BTU/hr
Heat to Water	10,4 kWh / 35,700 BTU/hr
Overall Efficiency (HHV)	86 %
Overall Efficiency (LHV)	93 %
Operating pressure	2 bar / 30 psi
Chimney up-draft (without fan)	min. 12 Pa - 15 Pa
Weight	about 275 kg / 606 lbs
Boiler volume	16 lit / 4.25 USG
Volume of combustion chamber	55 lit
Flue diameter	6 Inch
Exhaust gas temperature	about 110°C - 130°C / 230° F - 266°F
Particulate Emission Rate	0.88 gr/hr
Particulate Emission Factor	0.045 gr/kg
Particulate Emission Level	0.04 Lb/mmBTU
Particulate Emission Level	0.017 gr/MJ
CO	1,200 ppm
CO2	11.9 %
O2	10 – 13 %
Fuel	dry wood - max. log length 14''
Guarantee	5 Years on the stove body (excluding consumables) 2 Years for armatures and electrical fittings

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## Walltherm for Passive Houses

### Insulation system – QUICK for model Königspitze


**Insulation system - QUICK for model Königspitze**

Very good for small rooms or low-energy houses

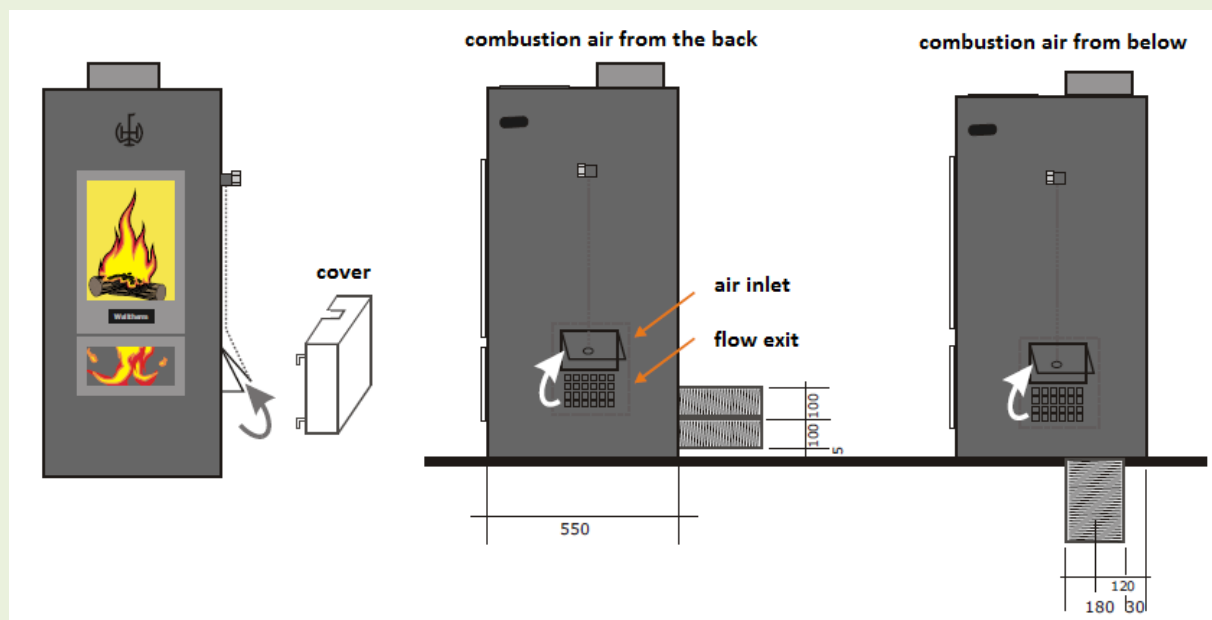
Very fast installation, add-on kit for the model Königspitze at any time

Up to 50% reduction of radiation to the ambient air

black  
casting grey  
honey brown



### Combustion air from outside



## External air with the new model

Pipe connection for external air supply from back and the bottom.

