



Hämeenlinna, 22.10.2022

INVESTMENT CALCULATION FOR A PERIOD OF 5 YEARS

The investment calculation compares the costs of the Smart Stove and the Continuously Heated Stove with different usage amounts per year and the resulting acquisition costs, taking into account the resulting difference in operating costs.

- Based on the GL0750, 16,2 kW, 180 Kerkes standby consumption value of 1-1.5 kW per hour and the experience value that consumption with saunas is about 3 kW per hour.
- Based on the estimate that the average consumption of a continuously heated Stove is half the rated power, ie 16 kW / 2 = 8 kW per hour with saunas.
- The price of a kilowatt is € 0.5 per hour.
- With a smart Stove, the duration of the panels is 2-3 times higher than usual.
- The cost of panel renovation with continuous heating is 2 * 4000 € per annual hour 8760.
- The cost of panel repairs at the Smart Stove is € 4,000 per hour 8760.

CALCULATION ACCORDING TO DIFFERENT SAUNA TIMES

Sauna time 24/7 throughout the year	Smart Stove	continuous heated stove	Savings%
Electricity cost 5 years			
Calculation formula	$5v * 8760h * 3kW * 0,5€$	$5v * 8760h * 8kW * 0,5€$	
Electric bill	65 700	175 200	-62
Savings per year = (175200-65700)/5	21 900	This row is not included in the calculation	
Panel Cost	4 000	8 000	
Stove maintenance	5 000	5 000	
Purchase price + installation	11 000	3 000	
Life cycle cost	107 600	191 200	-43
Smart stove saving next 5 years	83 600		

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Sauna time 16 h / day throughout the year			
	Smart Stove	continuous heated stove	
Electricity cost 5 years			
Calculation formula	$5 \cdot 5760 \cdot 3 \cdot 0,5 \text{€} + 5 \cdot 360 \cdot 3 \text{h} \cdot 16 \cdot 0,5 \text{€}$	$5 \cdot 5760 \cdot 8 \cdot 0,5 \text{€} + 5 \cdot 360 \cdot 16 \cdot 0,5 \text{€}$	
Electric bill	47 520	129 600	-62
Savings per year = (129600-47250)/5	16 416	This row is not included in the calculation	
Panel Cost	2 680	5 360	
Stove maintenance	3 350	3 350	
Purchase price + installation	11 000	3 000	
Life cycle cost	80 966	141 310	-42
Smart stove saving next 5 years	60 344		

Sauna time 8 h / day throughout the year			
	Smart Stove	continuous heated stove	
Electricity cost 5 years			
Calculation formula	$5 \cdot 2920 \cdot 3 \cdot 0,5 \text{€} + 5 \cdot 360 \cdot 0,7 \cdot 16 \cdot 0,5 \text{€}$	$5 \cdot 2920 \cdot 8 \cdot 0,5 \text{€} + 5 \cdot 360 \cdot 16 \cdot 0,5 \text{€}$	
Electric bill	31 980	72 800	-55
Savings per year = (72800-31980)/5	8 164	This row is not included in the calculation	
Panel Cost	1 340	2 680	
Stove maintenance	1 730	1 730	
Purchase price + installation	11 000	3 000	
Life cycle cost	54 214	80 210	-31
Smart stove saving next 5 years	25 996		

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Sauna time 8 h / day 5 days 7 weeks

Electricity cost 5 years	Smart Stove	continuous heated stove	
Calculation formula	$5 \cdot 2080 \cdot 3 \cdot 0,5\text{€} + 5 \cdot 260 \cdot 0,7 \cdot 16 \cdot 0,5$	$5 \cdot 2080 \cdot 8 \cdot 0,5\text{€} + 5 \cdot 260 \cdot 16 \cdot 0,5$	
Electric bill	22 880	56 000	-58
Savings per year = (75800-31980)/5	6 624	This row is not included in the calculation	
Panel Cost	1 340	2 680	
Stove maintenance	1 730	1 730	
Purchase price + installation	11 000	3 000	
Life cycle cost	43 574	63 410	-30
Smart stove saving next 5 years	19 836		

Sauna time 6-10 in the morning and 16-22 in the evening

Electricity cost 5 years	Smart Stove	continuous heated stove	
Calculation formula	$5 \cdot 1800 \cdot 3 \cdot 0,5\text{€} + 5 \cdot 360 \cdot 0,5 \cdot 16 \cdot 0,5$	$5 \cdot 1800 \cdot 8 \cdot 0,5\text{€} + 5 \cdot 360 \cdot 16 \cdot 0,5$	
Electric bill	20 700	50 400	-58

Evening sauna 16-22

Calculation formula	$5 \cdot 2160 \cdot 3 \cdot 0,5\text{€} + 5 \cdot 360 \cdot 0,5 \cdot 16 \cdot 0,5\text{€}$	$5 \cdot 2160 \cdot 8 \cdot 0,5\text{€} + 5 \cdot 360 \cdot 16 \cdot 0,5\text{€}$	
Electric bill	30 600	57 600	-46
Savings per year = (57600-30600)/5	5 400	This row is not included in the calculation	

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Total electricity bill	51 300	108 000	-52
Savings per year = (108000-51300)/5	11 340	This row is not included in the calculation	
	1 500	3 000	
Stove maintenance	1 730	1 730	
Purchase price + installation	11 000	3 000	
Life cycle cost	65 530	115 730	-33
Savings for the next 5 years	50 200		

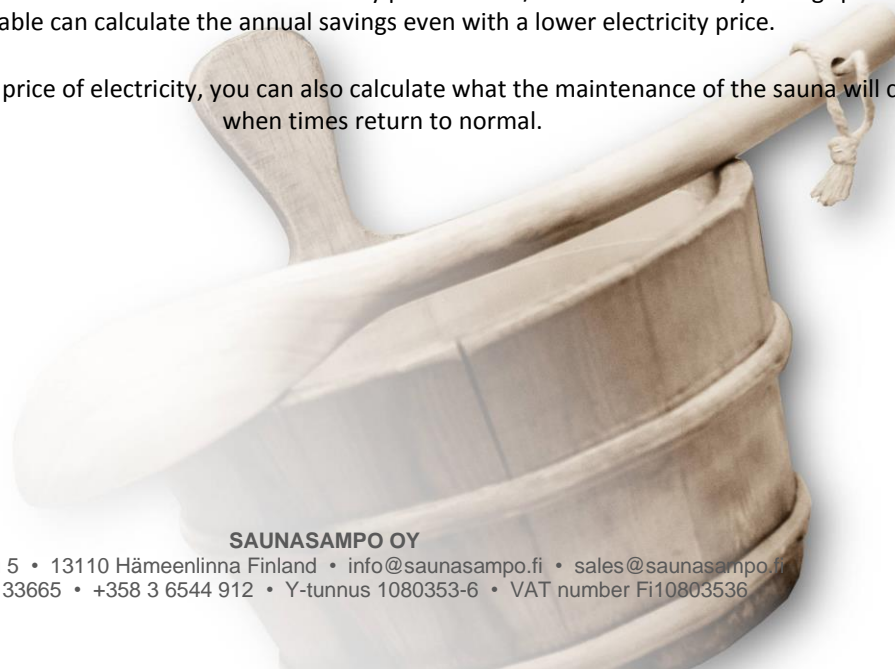
ATTENTION!!

With a larger XL stove, the savings are 10-20% higher, because the surface area of the walls and roof to be kept warm is larger than the inner surface of the outer shell of the stove.

For the sake of clarity, the annual saving of electricity alone has been calculated as an extra row in the table, because there are other costs in the 5-year savings of the Investment Calculation.

The calculations have been made based on an electricity price of €0.5/kWh. The electricity savings per row in the table can calculate the annual savings even with a lower electricity price.

With the lower price of electricity, you can also calculate what the maintenance of the sauna will cost when times return to normal.



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