



Individual.  
Like your wishes.







# With KUSATEK

## Make your sauna heater suit your individual preferences

KUSATEK has more than 20 years of success and experience in the heating of commercial saunas. When it comes to professional sauna technology and individual solutions, KUSATEK and its big sister company - EOS are an unbeatable team.

The KUSATEK team has made it its own mission to assist an investor, an architect or an operator of a fitness studio, an owner of a hotel, a wellness area or a thermal bath by questions regarding sauna heaters and facilities all over the world.

KUSATEK provides a full range of professional services, including advice in planning, design, installation, as well as in annual maintenance.

Our DVGW-certified KUSATHERM gas sauna heaters with a power output of 10 to 120 kW offer you the most economical and environmentally friendly operation of your traditional Finnish sauna, humid or herbal bath, themed or so-called mega-sauna.



# Gasfired sauna heaters

## KUSATHERM

### Main Advantages

Gasfired sauna heaters KUSATHERM allow to reduce costs, and to improve your operating results. Rely on Kusatek - let us work together to develop bespoke solutions for your sauna project.

- + Energy cost savings of up to 70% compared to electric sauna heaters. The larger the area of your sauna or spa complex, the better your investment results.
- + Thanks to the double spiral system, you get the largest possible heat transfer surface, a larger opportunity for energy savings and optimal conditions for traditional water splashes on sauna stones.
- + Long service life due to robust design and placement of key components outside the sauna cabin.
- + Energy efficiency, reduced CO<sub>2</sub> emissions compared to electrically powered sauna heaters.
- + Compatible with natural gas, propane and butane.
- + Highest possible safety through certification according to the Equipment Regulation (EU) 2016/426. Certificate CE-0085BT0401.
- + Made in Germany: developed, manufactured and tested.



# KUSATHERM

## The double spiral technology

One or several burners heat up a gas air mixture to about 350°C. A fan sucks this gas air mixture with suppression through the double spiral and leads the combustion air out through an exhaust gas line.

The double spiral is heated to approx. 250 to 350 °C and releases this energy as convection and radiant heat in the sauna cabin. The advantages of the double spiral are the largest heat transfer surface in respective classes, high heat reserves and an optimal, long-lasting temperature of the stones for a great, true to tradition water splash experience in your sauna.

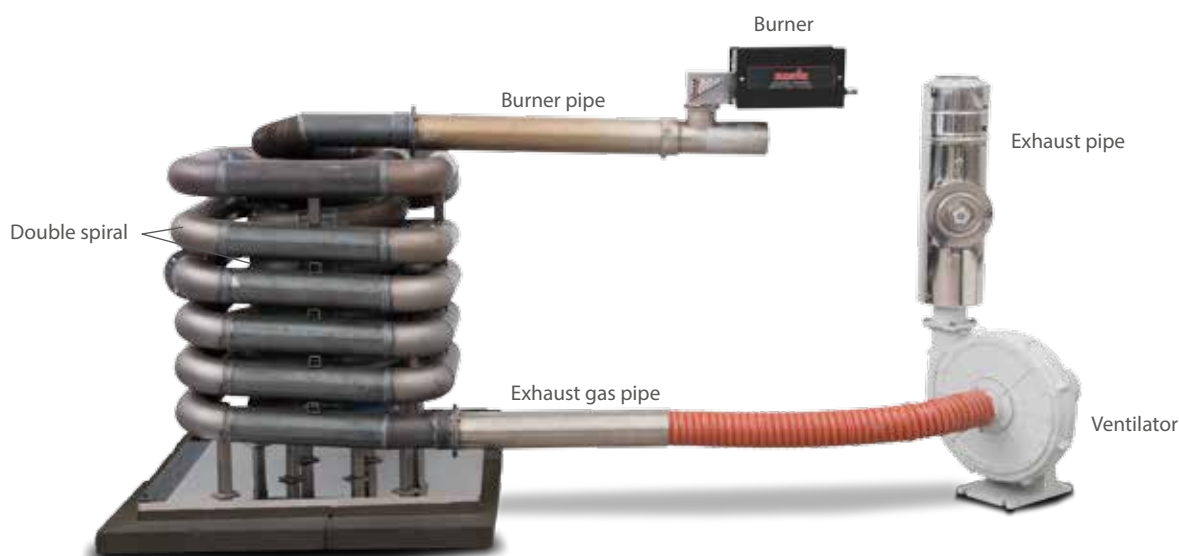
The application possibilities of our gas heaters depend on your individual needs. It does not matter to us whether the heater should be placed in the middle, between the benches or hidden behind the wall.

### Heat recovery

Optimize your system with the help of a heat recovery system or an exhaust exchanger, for example to heat the hot water reservoir for shower, foot baths, floor heating, etc.

### Air-Supply Element

The hottest part of the heater is in the burner pipe. Through the use of an air-supply element, by means of a fan, the pipe is cooled and the heated air is supplied to the sauna cabin. This not only ensures the necessary air exchange, but also shortens the heat-up time in the sauna cabin.



DVGWCE-0085BT0401 for gas sauna heaters

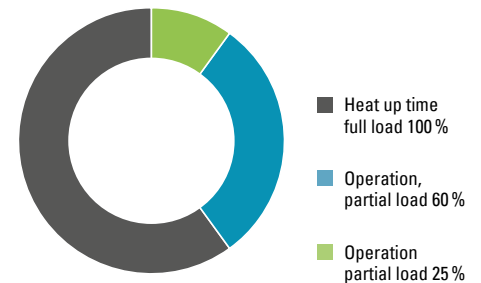
# Cost minimising with KUSATEK

## Comparison of operating costs

Minimising the operating costs is becoming increasingly important due to constantly growing expectations going hand in hand with the number and size of the saunas. Gas sauna heaters KUSATHERM will provide not only a high level of comfort for your guests but also contribute significantly to the improvement of your operating results.

### Comparison of gasfired heaters and electrically powered sauna heaters

	Daily values		Annual values	
	Gas	Electricity	Gas	Electricity
Annual operating time	1 d	1 d	360 d	360 d
Daily operating time	12 h	12 h	12 h	12 h
Heat-up at 100% full load	1,5 h	1 h	540 h	360 h
Operating time at part load 60%	4 h	4 h	1.440 h	1.440 h
Operating time at part load 25%	8 h	8 h	2.880 h	2.880 h
Total Operating & heat-up times	13,5 h	13 h	4.860 h	4.680 h



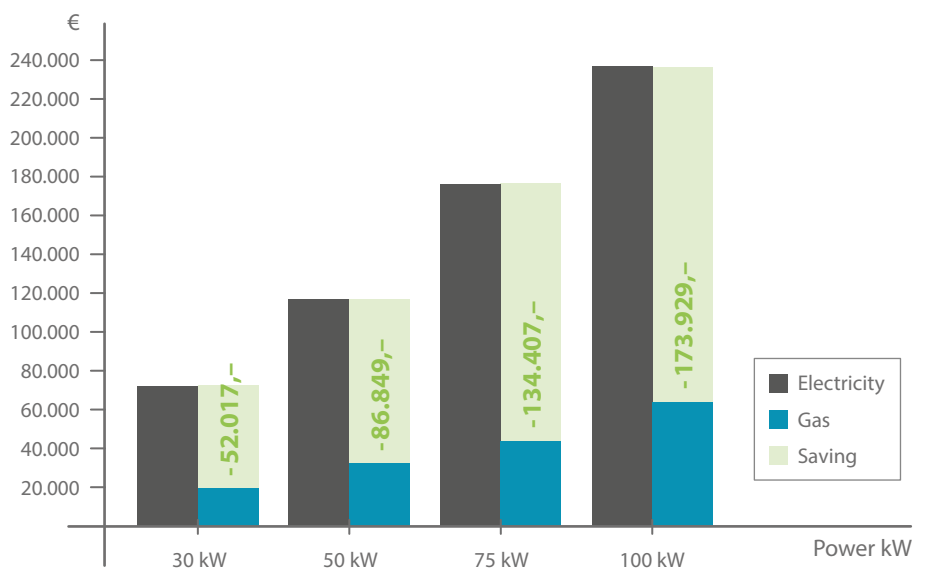
Your investment in a gas sauna heater KUSATHERM will pay for itself in a very short time. Over the 7 year long operation period the dynamics of costs are as follows.

### Cost saving potential in one year of operation

	Electricity	Gas
30 kW	10.170 €	2.740 €
<b>Saving</b>		<b>-7.430 €</b>
50 kW	16.950 €	4.550 €
<b>Saving</b>		<b>-12.400 €</b>
75 kW	25.430 €	6.230 €
<b>Saving</b>		<b>-19.200 €</b>
100 kW	33.910 €	9.060 €
<b>Saving</b>		<b>-24.850 €</b>

Based on these considerations: price/natural gas, €0.043 per kWh and price/electricity €0.1938 per kWh. (Price Germany)

### Cost saving potential in 7 years of operation











# Experience for all senses

## Themed sauna and megasauna

Today an owner of a themed or a megasauna must not only meet the very different guests' expectations, but rather must surpass his customers' wishes by offering a unique user experience. With all the visual and optical effects the heat in the sauna cabin still plays the key role. The heart of every sauna is the heater and its control panel.

Sauna heaters KUSATHERM have been developed to meet the constantly growing and changing demands of the market, and thus to meet the individual wishes of customers.

### Experience exchange with clients at international level

Splashing water on the hot sauna stones remains as before a favourite feature and a sauna marketing tool. In addition, there is a trend towards mega and themed saunas with over 200 seats. In order to meet such requirements, in daily use and for many years to come, it is not only the power of the heater which has to be properly selected. Height, width, length and quantity of stones should match the overall concept of the sauna cabin. In order to identify new market trends as early as possible we are continuously in touch with our customers and their sauna specialists. This is true not only for Germany, KUSATEK, like EOS, operates in many international markets.

# Creative beyond borders









# KUSATEK Projects

Are you looking for a new sauna or for a refurbishment of the existing one? Would you like to convert your sauna to gas heating? WE WILL BE HAPPY TO PROVIDE YOU A NON-BINDING ADVICE.

Following you will find a small selection of projects made by KUSATEK. Check out the great possibilities of KUSATEK sauna heaters, designed to exactly meet the individual customer requirements.

## Badewelt Sinsheim • Sinsheim • 2017

### Cabin

Event Sauna (refurbishment)

**Heater type** KUSATHERM 90

**Burner** 2 burners @ 30 kW

### Distinctive characteristic of the project

Existing themed sauna has been converted to an event sauna. A new spiral with increased volume of stones has been fitted.



## Hotel Mooshof • Bodenmais • 2017

### Cabin

Event sauna

**Heater type** KUSATHERM 120

**Burner** 4 burners @ 30 kW

### Distinctive characteristic of the project

Burners are located directly under the heater to give it a unique visual appearance.





## Badegärten Eibenstock • Eibenstock • 2015

### Cabin

Event sauna for 100 persons

**Heater type** 2 x KUSATHERM 90

**Burner** 6 burners @ 30 kW

### Distinctive characteristic of the project

A low height sauna heater has been installed in order to provide perfect conditions for sauna championships. Burners have been located directly under the heater.



## Hotel Schwarz • Mieming • 2016

### Cabin

Panoramic view sauna

**Heater type** KUSATHERM 120

**Burner** 4 burners @ 30 kW

### Distinctive characteristic of the project

The heater stands in the middle of the sauna in front of a glass facade with a view of a natural pond. Burners and ventilators are located outside the cabin, supply pipes are in the floor duct.



## Hotel Alpenrose • Maurach • 2016

### Cabin

Panoramic view & water splash even sauna

**Heater type** KUSATHERM 60

**Burner** 2 burners @ 30 kW

### Distinctive characteristic of the project

The sauna is located on the top floor with an idyllic view of natural landscape. The sauna heater serves as a design feature.





# Service & References

## Consulting

We are your reliable partner with more than 20 years of experience in gas-fired sauna technology.

Our company will gladly provide you with all the necessary information about the possible refurbishment of your existing heater, or we will assist you in designing a new one. Do you already have one or more gas fired sauna heaters? Would You like to increase the area of your sauna? Do not hesitate to contact us for advice.

## Planning

As a part of our proposal we will develop a draft design being a basis for further discussion and present you various options.

## Installation

Our experienced team will install the entire KUSATHERM system up to the exhaust system.

Installation and commissioning are carried out exclusively by our qualified staff. Thus, we ensure a reliable operation.

## Inspection and maintenance

Knowing that your system is running reliably 365 days a year gives you the necessary security and contributes significantly to the satisfaction of your guests. Regular inspections and maintenance are indispensable for this. We will be happy to offer you a special maintenance plan tailored to your needs.

## Staff training

Our specialists will be glad to instruct and train your employees how to operate the KUSATHERM sauna heaters to ensure optimal use.





H2O Herford



AQUALAND



OASE  
WELLNESS WELT  
WESERPARK BREMEN



Linus Lingen  
WASSERWELTEN



VeluwseBron  
PURE ONTSPANNING

HOTEL THERME MERAN  
HOTEL TERME MERANO



FELDHOF  
★★★★★



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