

ERGONOMIC COMBUSTION CHAMBER SHAPE INCREASES EFFICIENCY

The intelligent new design of the combustion chamber wall increases the efficiency of the ECOS

NEW

PATENTED

Patent no. EP3789670B1



i.a. New geometry increases efficiency!

INNOVATIVE DESIGN INCREASES EFFICIENCY

The new innovative and CFD-calculated combustion chamber geometry of the ECOS, with the sloping combustion chamber wall (Pos.1), ensures an effectively higher efficiency.

- ✓ Higher efficiency is achieved through a new ergonomic combustion chamber geometry (CFD-calculated and tested over many years)
- ✓ The gaseous volume flow is guided through the ergonomically inclined combustion chamber wall to the heat exchanger tubes at a uniform speed. This results in a uniform heat distribution of the individual heat exchanger tubes or the heat exchanger surfaces concerned. The flue gas temperature is thus lowered and the efficiency increased

ALTERNATIVE SYSTEMS

✗ In alternative systems where the combustion chamber wall is straight, it can happen that the volumetric flow created during combustion draws towards the heat exchanger tubes at a more uneven speed. As a result, optimum flue gas temperature and efficiency may not be achieved. These processes can cause the heating system to perform worse.

ENERGY-SAVING AND FAST ECO-IGNITION

The reliable, silent, fast and energy-saving **ECO** ceramic igniter is highly efficient and saves costs

NEW

at Sommerauer



EFFICIENT AND ECONOMICAL ECO IGNITION PROCESS

The noiseless energy-saving ceramic igniter ensures reliable and economical ignition of the fuel, eliminating the need for a complex and expensive hot air blower

✓ Reduction of power consumption from ca. 1500 to 250 watts ensures savings of over 1200 watts!

- ✓ Maximum energy saving due to extremely fast ignition (<3min!) and lower power consumption (no hot air blower necessary)
- ✓ Silent and safe operation with integrated ignition monitoring
- ✓ Energy savings of over 90%

ALTERNATIVE SYSTEMS

✗ If alternative systems use hot air blowers to ignite the fuel, more energy is consumed, they are more expensive to buy and noisier to operate.