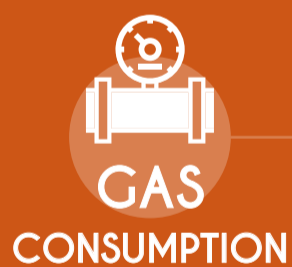


Energy consumption and CO₂ and NO_x emissions Minimised in an Intermittent Ceramic Kiln

ECONOMICK kiln prototype has undergone a first run of firing tests at Ceramica Kerason. The tests have been carried out between 3rd April 2018 and 30th July 2018. 3360 sanitary pieces were fired.

The results show significant improvements with respect to a traditional intermittent kiln, especially regarding CO₂ emissions, gas consumption, cycle's length, cold wall temperature. Further enhancements have been reached by installing a probe for the optimization and control of oxygen content within the chamber.

PRELIMINARY RESULTS ON SANITARYWARE FIRING



Up to **-45%**
without probe

Up to **-50%**
with probe



Up to **-45%**
without probe

Up to **-50%**
with probe



TEMP. MAX
COMBUSTION AIR
>350°



COLD FACE
TEMPERATURE
<50°



SHORTER
CYCLES
12h



REDUCED
TEMPERATURE IN
WORKING PLACES



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