

PRESS RELEASE

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SE.TE.C. srl has completed the design phase of a new intermittent kiln prototype, suitable for both vitreous-china or fire-clay sanitary ware and tableware (dishes and pots).

This prototype offers innovative technological solutions that provide a homogeneous thermal distribution throughout each cycle of the firing cycle, regardless of the load properties and characteristics.

The same furnace can be used for refiring the repaired pieces.

Technical design considerations allow high production yields and energy savings.

The high insulation level provides the best compromise between thermal conductivity and weight.

An ad-hoc study has been carried out during the material selection phase to select the best coatings to minimize thermal inertia.

The mass to be heated is minimal, resulting in reduced energy consumption but in full compliance with the controls on safety and protection of workers.

Three different solutions have been chosen, which have been considered during the design phase, allowing an outside wall temperature below 60 °C.

The intermittent kiln has been equipped with a smoke recovery system for preheating the combustion air, thanks to an Ipeg patent. This system does not require extra chimneys or pipes, and in particular does not alter the fluid dynamics in any way, which is that of a traditional furnace.

In addition, a flame speed adjustment system has been included to optimize the heat exchange of smoke / pieces, which does not compromise the uniformity of firing and energy saving at low temperatures.

A specific software developed by SE.TE.C for heat recovery and air / fuel ratios has been inserted into the system's control panel, which can also store the different firing curves and allows complete computerization of the movements of all installed appliances.