

RAPID DRYING OF CERAMICS REDUCING ENERGY CONSUMPTION AND CO₂ EMISSIONS WHILE PRESERVING PRODUCT QUALITY



TRADITIONAL DRYER

- Temperature is the only controlled parameter
 - Absence of a drying curve
 - Very low drying homogeneity
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- Drying cycles very often ARE LONGER THAN 14 HOURS and don't allow to introduce very wet pieces
 - Oversized air fans and heat generator

HIGH ENERGY CONSUMPTIONS



NEW RAPID DRY DRYER

A NEW SOFTWARE MANAGES ALL DRYING PARAMETERS

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- A fully automatic heat generator limits by itself the thermal power and **STRONGLY REDUCES METHANE CONSUMPTION**
 - A fully automatic air flow management limits by itself electrical power and **STRONGLY REDUCES ELECTRICAL CONSUMPTION**
 - It allows to set a real drying curve: in every step is possible to control air temperature, humidity and turbulence getting a perfect drying homogeneity
 - Humidity extraction and heat recovery are optimized

FINAL RESULTS



DRYING CYCLE
lower than
8 hours



THERMAL CONSUMPTION
is only
98 kcal/kg
with respect to 288 kcal/kg
of traditional dryers



ELECTRICAL CONSUMPTION
is only
0.003 Kwh/kg
with respect to 0.019 Kwhl/kg
of traditional dryers