

Press Release - July 2021

DRYER DESIGN PHASE - COMPLETED

SETEC has completed the design phase of a new ceramic dryer prototype, ensuring a result able to minimize energy consumption, optimize performance and guarantee the safety of the system.

Among the most innovative aspects of the dryer there are two softwares, one employed during the design phase, the other actively involved in the dryer functioning:

1. In the design phase, an advanced calculation software programme has allowed to model the prototype through a series of 3D simulations. This modelling approach enabled SETEC to get the optimal design and assembly, within the functioning of the selected materials and prototype cost boundaries;
2. In the dryer prototype, the PLC software (Programmable Logic Controller) allows control of all the major functions of the dryer, including air movement through cones and air recirculation. Automation has been designed specifically and works through a switchboard that provides and guarantees the correct behaviour of the operative parameters. Parameters are pre-entered for the automatic adjustment of temperature in the various zones of the dryer.

Ultimately, the estimation of the air movement and air recirculation and the possibility to regulate them allows the extreme flexibility and elasticity in dealing with the heat cycle, which can be adapted to the products characteristics.

Following the completion of the design, the technical staff will be in charge of purchasing the materials and components necessary to start the construction phase.