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## INDUSTRIAL OVEN

Polymer Sintering Oven  
(PTFE)





## Polymer Sintering Oven (PTFE)

These ovens have been studied for the specific application of sintering treatments on PTFE polymers.

The maximum working temperature is 450 °C.

The isolation has been studied to have the minimum external temperature dispersion. The enhanced ventilation allows excellent distribution inside the chamber. There are 4 interacting temperature probes for monitoring as well as optimal management of the ramp and thermal stability.

The motorized door allows easy loading and unloading of the material.

The electric panel of our design and the use of a Siemens PLC thermoregulator connected via Ethernet to our remote management software allows the best possible programming as well as the recording of the time/temperature cycle. A "redundant" security system monitors that the alarm and danger temperatures aren't exceeded.

The heat exchanger allows considerable energy savings.

### Characteristics

The oven is characterized by the numerous characteristics that allow to improve the post-curing process.



**Internal flaps**  
for adjusting the air flow



**Heat exchanger**  
allows considerable energy savings



**Motorized door**



**Control and regulation of incoming air**



**ORS safety valve**  
for oxygen reduction, installed on both incoming and outgoing pipe



**Siemens PLC thermoregulator**  
improves control and temperature regulation

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## WHAT MAKES OUR OVEN RANGE UNIQUE

### HOMOGENOUS TEMPERATURE

Air flow management to obtain differences in temperature even better than 5 degrees.

### O.R.S VALVE

Security valve for the reduction of oxygen in the chamber. It reduces the risk of a fire

### SAFE USE

The interior of the chamber is completely "sealed" and doesn't allow the fumes to pollute the insulation.

### PLC SIEMENS

The electric panel allows you to:

- have under control all the temperature parameters.
- interface and control the oven through a PC.
- record time/ temperature graphs

### EXCHANGER HEAT

It allows to pre-heat the incoming air by 30/50 °C, reducing energy consumption and condense the outgoing fumes.

### H.E.P.A. FILTERS

Where it's necessary to treat food or medical material, we filter incoming air through absolute filters.

### AIR EXCHANGE

The post-curing of silicone requires a lot of attention for the exchange of fresh air, we can manage the correct quantity air with respect of the kg of the treated material.

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## Our Ovens



### Static Oven for Elastomer Vulcanization

Oven studied for the treatment of post-curing of elastomer materials such as NBR, Silicone, Viton, etc.

Max temp. 200/300 °C



### Rotating Oven for Elastomer Vulcanization

Oven studied for the treatment of post-curing of elastomer, such as O-ring, for which flatness is required.

Max. temp. 300 °C



### Sintering Oven PTFE

Oven studied for the specific application of sintering treatments on PTFE polymers.

Max. Temp. 450 °C



### Pre-heating Oven Moulds

Oven designed to hold the moulds before being installed on the press.

Max. Temp. 200 °C

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WE ARE ABLE TO PROVIDE **MADE TO MEASURE** OVENS STUDIED TO SATISFY YOUR NEEDS

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We have specialised for 20 years in the supply and consultancy  
of scientific instrumentation for quality control and R&D laboratories.

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