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## INDUSTRIAL OVEN

Static oven for cycles  
of Vulcanization Elastomer





## Static oven for cycles of Vulcanization Elastomer

This oven has been studied to satisfy the technical specifications for the **post-curing** treatment of elastomer materials such as NBR, silicone, Viton, etc. that require temperature precision, homogeneity and absolutely air exchange.

The FG oven is made of an entirely stainless steel chamber, a group of armoured electric resistances in stainless steel, a motor for ventilation and an electric panel with an electronic programmer capable of storing desired work cycles. The door seals are made of fiberglass for high temperatures ensuring excellent sealing.

### 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

### Optional



**Shelves and trolleys**  
they facilitate handling. The removable shelves allow you to easily position materials to be treated



**Rotating basket**  
steel trolley with a rotating basket. Recommended for obtaining flatness of O-Rings and flat gaskets.



**Cooling station**  
both for deck and trolleys with a rotating basket, it allows quick cooling of materials, freeing the oven for new production cycles.



**Basket with rods**  
steel trolley with a rotating basket. Recommended for obtaining the flatness of O-Rings of larger dimensions.

### Technical data of some models

Model	Internal volume (l)	Internal dimension (cm)	Static Trolley (shelves/m <sup>2</sup> )	Rotating Trolley (lit.)
FG-MINI	800	92 x 71 x 114	9 / 4 m <sup>2</sup>	200
FG-S	2.200	125 x 130 x 161	12 / 12 m <sup>2</sup>	650
FG-N	3.000	111 x 150 x 182	14 / 14 m <sup>2</sup>	600
FG-L	3.400	127 x 150 x 182	14 / 18 m <sup>2</sup>	850
FG-XL	4.900	174 x 150 x 182	28 / 27 m <sup>2</sup>	1.700
FG-XL-MAXI	7.400	177 x 200 x 217	32 / 62 m <sup>2</sup>	2.500

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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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