



Industrial oven XL2520

#### ▲ Performances :



## Industrial ovens XL line

The industrial ovens are easy to use, having both functional and practical equipments, at very reasonable prices.

They are suitable for a large number of industrial applications ; burning, degassing, stripping of paint, polymerization, pre-heating, hardening, drying, stabilization, sterilization, vulcanization, tests ... in many branches of industry.

All industrial ovens are strongly ventilated for the accuracy and homogeneity of temperature in the volume.

Designed to operate up to 200°C or 300°C as an option (with an optimised thermal insulation and higher power rating)

Temperature fluctuation: less than  $\pm 0,2^{\circ}\text{C}$

Temperature spatial variation: less than  $\pm 1,2^{\circ}\text{C}$  at 105,0°C and less than  $\pm 2,5^{\circ}\text{C}$  at 200,0°C (measure done with 9 probes inside the work chamber)

#### ▲ Construction :

8 sizes of ovens from 125 to 2520 liters. Control panels are at the top part of the ovens to minimise their size, except for XL0686, XL1400, XL1800, XL2520 models which have control panels on the left hand side.

The inner casing is made of corrosion resistant stainless steel, bright polished.

The outer casing is made of sheet steel, finished in a tough stoved epoxy paint. (colour light grey RAL 7035).

No contact between inner and outer casing and an optimised insulation minimises heat dissipation.

The walls and the door are insulated with glass fibre. The insulation is 110 mm thick, ensuring efficient operation, low external temperatures and excellent thermal stability.

The silicone rubber gasket provides a good seal between the door and the oven body, aiding insulation.

The insulation and the gasket are asbestos-free.

The door is hinged on the right hand side and closed with a robust 2 points fastener.

#### ▲ Heating :

The tubular heating elements are sheathed, made of stainless steel and ideally placed in the air blow.

No-wear switching (solid state relay) is used for activating and deactivating the heating elements.

#### ▲ Internal fan for air circulation :

All ovens are fan circulated models. The air flow speeds up the drying process and evens the temperature distribution within the oven.

The centrifugal blower is located at the top of the oven, shielded from the workspace by a stainless steel baffle.

Air is drawn into the fan from the top in the centre of the oven and passes over the temperature sensor and the sheathed heater elements. The heated air is distributed in the bottom of the oven through the whole width and then re-circulated by the fan.

The air circulation cannot be stopped, but as an option, a variator can be installed to adjust the circulation speed.

#### ▲ Exhaust air, fresh air supply :

Through access vent, fresh air is provided and pre-heated before entering the chamber.

A 60, 80 or 100 mm diameter exhaust vent (depending on the model) is provided with an adjustable valve to control the exhaust air flow. A mechanical extraction can be added as an option, to increase the exhaust air flow. As an option, an anti-dust filter can be added.

#### ▲ Temperature control and safety :

Temperature sensor is a J thermocouple. The temperature is controlled by a precise microprocessor based-controller that provides a high accuracy and prevents the set temperature from being exceeded. The independent over temperature thermostat cut out has an adjustable upper limit, giving a class 2.1 protection. The auto tune PID digital controller digitally displays the set and actual values of temperature, and incorporates a heater indicator lamp. The control panel houses a ON/OFF switch and a fault indicator lamp which lights, when the safety thermostat comes into operation.

#### ▲ Equipment :

Multiple position shelving for convenient loading / unloading. Additional shelves are available. A 20 mm diameter access port with silicone cork is fitted as standard in the left hand wall of the oven.



Industrial oven XL1000

A wide range of factory-fitted options and accessories to meet your exact requirements ...



### Technical data:

<b>Industrial ovens</b>	<a href="#">XL0125</a>	<a href="#">XL0343</a>	<a href="#">XL0490</a>	<a href="#">XL0686</a>	<a href="#">XL1000</a>	<a href="#">XL1400</a>	<a href="#">XL1800</a>	<a href="#">XL2520</a>
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### Performances

Temperature range		ambient + 20°C to 200°C (300°C in option)							
Temp uniformity 100°C (1)	±°C	< 1,2	< 1,2	< 1,2	< 1,2	< 1,2	< 1,2	< 1,2	< 1,2
Temp uniformity 200°C (1)	±°C	< 2,5	< 2,5	< 2,5	< 2,5	< 2,5	< 2,5	< 2,5	< 2,5
Temperature fluctuation	±°C	< 0,2	< 0,2	< 0,2	< 0,2	< 0,2	< 0,2	< 0,2	< 0,2

(1) measured in 9 points following NFC 15-140 without fresh air supply

### Dimensions

Work chamber volume	dm <sup>3</sup>	125	343	490	686	1000	1400	1800	2520
Internal width	mm	500	700	700	700	1000	1000	1000	1400
Internal depth	mm	500	700	700	700	1000	1000	1000	1000
Internal height	mm	500	700	1000	1400	1000	1400	1800	1800
External width*	mm	750	935	935	1115	1235	1415	1415	1815
External depth*	mm	860	1125	1125	1125	1465	1465	1495	1495
External height*	mm	1100	1250	1550	1950	1640	2040	2520	2520
Floor height with sub-frame (option)	mm	850	700	400/600**	-	400/600**	-	-	-

\* without option \*\* by choice on demand

### Ventilation, extraction

Internal fan circulated flow	m <sup>3</sup> /h	1000	1000	1300	1600	1800	2500	2800	2600
Exhaust air, fresh air supply flow	m <sup>3</sup> /h	60	90	100	140	280	280	280	280
Exhaust vent diameter	mm	40	80	80	80	100	100	100	100

### Shelves in stainless steel

Supplied / maximum		2 / 8	2 / 11	2 / 17	2 / 24	2 / 17	2 / 24	2 / 30	o. d.*
Shelf dimensions (W x D)	mm	470 x 470	670 x 670	670 x 670	670 x 670	970 x 970	970 x 970	970 x 970	o. d.*
Maximum load per shelf / in the oven	kg	30 / 60	30 / 120	30 / 150	30 / 180	30 / 150	30 / 180	30 / 240	o. d.*

\* o. d.: on demand

Number of door(s)		1	1	1	1	1	1	1	2
Window dimensions H x W (option)	mm	350 x 180	350 x 350	550 x 350	550 x 350	550x350	800x400	800x400	550x350**
Weight (empty)	kg	115	210	270	350	450	550	620	695

\*\* one window on each door

### Electrical supply 50 Hz 400 Volts three-phase five wire (1) 230 Volts single-phase

Power heating 200°C	Watts	3 000 (1)	6 000	6 000	9 000	12 000	12 000	15 000	18 000
With 300°C extension (option)	Watts	4 000 (1)	9 000	9 000	12 000	15 000	15 000	18 000	24 000

### Factory options (To be specified when ordering the main unit)

OG9001	Extension of the maximum temperature up to 300°C	OG9006	Door window
OG9002	Outside casing in stainless steel	OG9005	Air circulation variator
OG9003	Inner casing in 316L stainless steel	OP0051	Additional Pt100 probe and connector
OG9004	Special colour for external casing (indicate the RAL)	OG9009	Additional safety thermostat class 3.1
OG9008	Weekly automation with digital program timer	OP0041	Additional access port diameter 40 mm & silicone cork
		OP0043	Additional access port diameter 80 mm & silicone cork
OG9012	Air flow & heating stop with opening of the door	OP0080	Air extractor 230 m <sup>3</sup> /h with speed variator
		OP0091	Air extractor 485 m <sup>3</sup> /h with speed variator
OG9021	Temperature profiler (4 programs of 16 segments each)	OP0010	Calibration certificate 1 temperature 1 point
		OP0012	Calibration certificate 1 temperature 9 points
OP0024	Air extractor 230 m <sup>3</sup> /h		
OP0025	Air extractor 485 m <sup>3</sup> /h	-	Horizontal air flow
OG0014	Portable paper recorder 1 temperature		
OG0015	Portable paper recorder 2 temperatures	-	Plate of the oven not insulated, without floor
OP0014	Work chamber lighting		

### Accessories (can be ordered separately)

GA9001	Extra shelf 30 kg and its supports	GA9005	Sub-frame
		GA9006	Sub-frame with castors
GA9002	Reinforced shelf 60 kg and its supports	AC0011	Silicone cork for access port diameter 40 mm
		AC0013	Silicone cork for access port diameter 80 mm

