

Industrial ovens XL range

STANDARD



The industrial ovens are suitable for a large number of applications : burning, degassing, polymerization, pre-heating, hardening, drying, stabilization, vulcanization, tests, ... in many branches of industry.

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

- Temperature range : from +20°C above ambient up to +200°C or +300°C as an option
- Regulation stability better than $\pm 0,2^{\circ}\text{C}$
- Homogeneity in volume : $\pm 1,2^{\circ}\text{C}$ at +105°C and $\pm 2,5^{\circ}\text{C}$ at +200°C (9 points measurement)

Dimensions (mm)	Chamber useful			Chamber overall*			Useful volume (dm ³)	Unloaded weight (kg)
	W	D	H	W	D	H		
XL 0112	500	450	500	750	920	1200	112	138
XL 0343	700	700	700	944	1190	1368	343	210
XL 0490	700	700	1000	944	1178	1668	490	270
XL 0686	700	700	1400	1162	1125	2017	686	350
XL 1000	1000	1000	1000	1240	1527	1727	1000	450

Consult us for volume above 1000 litres

*certain options may change these dimensions

Construction

5 volumes of industrial oven are available, from 112 litres to 1000 litres ; for larger volumes, do consult us.

Control panels are on the top part or on the side of the oven, according to the oven height.

The inner casing is made of corrosion and heating resistant stainless steel. The outer casing is made of electro-galvanized steel coated with light grey epoxy paint or of precoated aluminium sheet.

Walls and door are insulated with 110mm thick glass wool, which ensures low external temperatures and an excellent thermal stability. A special gasket provides a good seal between the door and the oven body. The insulation and gasket are asbestos-free.

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

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Heating

The tubular heating elements are sheathed and made of stainless steel. They are ideally placed in the air blow for an excellent temperature homogeneity.

Inside ventilation

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.

Air renewal

A 60, 80 or 100mm Ø (depending on models) exhaust vent is provided with an adjustable valve to control the renewal air flow.

Regulation, control, security

The measurement temperature is ensured by a J type thermocouple.

The controller digitally displays continuously the set and actual temperature.

An independent class 2 safety thermostat shuts down the heating in case of failure of the main regulation system and ensures the safety of the oven and its load.



Equipment

Multiple position shelving for convenient loading/unloading.

Industrial ovens are delivered with 2 shelves.

Options (to be ordered with the oven)

OPT9001	Extension of maxi temperature up to +300°C	OPT9030	Factory calibration for 1 point 1 temperature (105, 150 or 200°C)
OPT9005	Inside ventilation speed variator	OPT9031	Factory homogeneity control for 1 temperature (105, 150 or 200°C)
OPT9006	Door viewing window	OPT9034	Air cooling extractor
OPT9008	Weekly automation with digital timer	OPT9038	Air outlet extractor
OPT9012	Fan and heating stop at door opening	OPT9047	Ø60mm porthole centered on the left wall
OPT9021	Cycles programmer (4 prog. of 16 segments)	OPT9049	3 channels programmer and digital recorder

Accessories

ACC9001	Additional shelf	ACC9009	Silicone cork for Ø60mm porthole
ACC9002	Additional reinforced shelf	ACC9013	2 channels portable paperless recorder
ACC9003	Stainless steel waste tray (20mm flange)	ACC9014	4 channels portable paperless recorder with graphic screen
ACC9004	Stacking kit	ACC9015	6 channels portable paperless recorder with graphic screen
ACC9005	Sub-frame	ACC9016	3m length thermocouple J with plug
ACC9006	Sub-frame with casters	ACC9020	Software for recorder 2 channels