

500°C ovens XHT range



500°C oven, model XHT343

These ovens are suitable for a large number of applications : burning, degassing, pr-heating, hardening, hot air, sterilization, tests ... in many branches of industry.

They are ventilated for the accuracy and homogeneity of temperature in the volume.

Low thermal mass insulation materials and strong power rating have been used to achieve rapid heating.

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- Temperature range : from 20°C above ambient temperature up to 500°C
- Regulator digital display accuracy : 1°C
- Regulation stability better than $\pm 0,2^{\circ}\text{C}$
- Temperature rising speed : 400°C in 45min, 500°C in 70min

Dimensions (mm)	Chamber useful			Chamber overall			Useful volume (dm ³)	Unloaded weight (kg)
	W	D	H	W	D	H		
XHT 075	500	500	300	850	880	925	75	95
XHT 125	500	500	500	850	880	1125	125	115
XHT 343	700	700	700	1025	1150	1430	343	240
XHT 490	700	700	1000	1025	1150	1730	490	270
XHT 686	700	700	1400	1025	1150	2130	686	350

Model	Electrical supply 50Hz (V)	Power rating (W)
XHT 075	230 mono	3000
XHT 125		4000
XHT 343	400 tri + Earth + Neutral (TT)	9000
XHT 490		12000
XHT 686		15000



Construction

5 volumes of 500°C oven are available, from 75 litres to 686 litres.

The inner casing is made of corrosion and heating resistant 321 stainless steel. The outer casing is made of electro-galvanized steel coated with light grey epoxy paint (RAL 7035).

No contact between inner and outer casings and an optimized insulation minimize heat dissipation.

Walls and door are insulated with 150mm 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.

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

Through access vent, fresh air is provided and pre-heated before entering the chamber. A 40mm or 60mm Ø (depending on models) exhaust vent is provided with an adjustable valve to control the renewal air flow.

Regulation, control

The measurement temperature is ensured by a J type thermocouple.

The controller digitally displays continuously the set and actual temperature.

An independent second electronic controller, with a second thermocouple, has an adjustable upper limit, giving a class 2 protection.

Equipment

Fixed shelving for convenient loading/unloading.

Ovens are delivered with 2 shelves (except for XHT075 model : 1 shelf).



500°C oven, model XHT125,
door hinged on the left side

Options (must be ordered with the oven)

OG9002	Outer casing in brushed finish stainless steel	OP0010	1 temperature 1 point factory temperature control
OG9004	Special outer casing colour (indicate RAL)	OP0024	230m ³ /h cooling extractor
OG9005	Inside ventilation speed variator	OP0025	485m ³ /h cooling extractor
OG9006	Dear viewing window	OP0038	Digital timer 0/99h, setpoint start
OG9007	Class 2.1 additional safety thermostat	OP0080	230m ³ /h air forced renewal, adjustable speed
OG9008	Weekly automation with digital timer	OP0091	485m ³ /h air forced renewal, adjustable speed
OG9014	1 temperature portable paper recorder	OP0116	Ø 40mm porthole and fiber cork
OG9015	2 temperatures portable paper recorder	OP0117	Ø 60mm porthole and fiber cork
OG9021	Cycles programmer (4 prog. of 16 segments)	OP0118	Additional thermocouple and connector

Contact us for specific dimensions or any other options

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