

Ovens & IncubatorsFor laboratory and industry





Vacuum ovens XF line

A highly versatile range of compact vacuum ovens. These vacuum ovens enable heat-sensitive materials to be dried at low temperature.

More stable samples can be dried at higher temperature at up to 200 or 300°C.

They have a place in every laboratory and every industry.

Performances:

Designed to operate from room temperature + 20°C up to 200°C or up to 300°C, as the thermal insulation and power rating depend on the maximum temperature equired.

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Final vacuum of 10⁻²/mbar, depending on the vacuum pump used.

Temperature time fluctuation is less than ± 0,2 °C .

Vacuum oven XF240 with options

Construction :

4 sizes of ovens are available from 20 to 240 liters.

Inner casing is made of corrosion resistant stainless steel, type 304, with rounded corners.

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

No contact between inner and outer case and an optimised insulation minimise heat transfer to the ambient air and heat dissipation.

Walls are insulated with glass fibre. The insulation is 70 mm thick, this ensures efficient operation, low external temperatures and excellent thermal stability.

Door is a thick toughened glass plate.

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

Insulation and the gasket are asbestos-free.

The door is hinged on the right hand side.

▲ Heating:

The chamber is heated by large area heaters strapped to its outer surface.

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

As an option, internal heating plates can be installed instead of the external heating elements.

✓ Vacuum control :

Exhaust solenoid valve is situated for convenience connection to a vacuum pump.

Inlet solenoid valve accept air entry or inert gas connection.

A vacuum gauge is fitted showing vacuum pulled from 0 to 1000 mbar.

Valves are a 3-position manual one for the 20-liter model.

▲ Temperature contro/ and safety :

Temperature sensor is a thermocouple inside the chamber.

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 3.1 protection.

The autotune PID digital controller digitally displays the set and actual values of temperature, and incorporates the heater indicator lamp.

Control panel also houses the 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.



Vacuum oven XF020

Photos and specifications are not contractual

Technical data

Vacuum ovens	XF020	XF050	XF120	XF240
vacuum ovens	AFU2U	XF030	XF120	AF240

Performances

Temperature range	ambient +20°C to 200 °C (300°C with option extension up to 300°C)				
Maximum final vacuum	mbar	10-2	10-2	10 ⁻²	10-2
Temperature fluctuation	±°C	< 0,3	< 0,3	< 0,3	< 0,3

Dimensions

Work chamber volume	dm3	20	51	112	223
Internal width	mm	250	320	470	470
Internal depth	mm	320	500 320	500 470	1000 470
Internal height	mm	250			
External width	mm	405	500	650	650
External depth	mm	490	710	710	1220
External height	mm	530	620	770	770
Glass thickness (securit)	mm	8	10	15	15

Shelves in stainless steel

Number standard/ max		1/3	1/4	1/6	1/6
Shelf dimensions (w x d)	mm	215 x 260	285 x 440	490 x 440	490 x 940

Electrical supply 50 Hz 230 Volts (1) power above 4000 watts: 400 V tri + T + N)

Maximum power rating	Watts	600	1290	2580	3870
Maxim power rating option 300°C	Watts	800	1710	3420	5130 (1)

Factory options (must be specified at the time of ordering the main unit)

OG9001	Extension for max temperature up to 300°C	OG9011	Aluminium heating shelf
OG9002	Outside casing made of 304 stainless steel	OG9016	Oven mounted on braked castors
OG9003	Inner case in 316L stainless steel	OP0046	Piezo-electric vacuum gauge and digital display
OG9004	Special colour for external casing (indicate RAL reference)	OP0093	Pressure regulation (OP0046 prerequisite)
OP0038	Digital timer 0/99 hours with auto/manu selection	OG9007	Additional safety thermostat class 2
OP0104	Digital weekly program timer	OP0001	Sound on alarm
OP0049	Temperature profiler (4 programs of 16 segments each)	OP0092	Additional thermocouple and connector
OG9014 OG9015	Temperature paper recorder 1 probe Temperature paper recorder 2 probes	OP0037	Precision control exhaust valve

Accessories (can be ordered separately)

I	GA9001	Extra shelf and 2 supports	AC0027	Vacuum pump 2,7 m3/hour
	AC0028	Vacuum pump 3,7 m3/hour	AC0029	Vacuum pump 5,8 m3/hour
I	AC0030	Vacuum pump 9,7 m3/hour	AC0031	Vacuum pump 14,2 m3/hour

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