

chamber furnaces



ELF 11/6

ELF Chamber Furnaces

The ELF range is bench mounted with a maximum temperature of 1100°C and is available with chamber capacities of 6, 14 and 23 litres. These furnaces are suitable for light duty general laboratory work.

The heating chamber is insulated with vacuum-formed low thermal mass insulation, which offers exceptional performance in achieving maximum temperature quickly and efficiently. A temperature of 1000°C is achieved in as little as 35 minutes. Semi-embedded free radiating wire wound elements are located on the two side walls - elements are not positioned in the hearth. A hard ceramic hearth is fitted as standard, which offers additional protection from spillage.

The drop down door can be used as a shelf when loading and unloading samples. The door insulation also acts as a trap for radiated heat, thus improving the chamber uniformity, whilst the air gap behind the plug minimises the external door temperature.

A ceramic chimney is fitted for the ventilation of the chamber, but if toxic / corrosive fumes are generated then a model from our dedicated ashing range should be recommended.

The digital Carbolite 301 PID controller is fitted as standard and has an adjustable single ramp to set point, as well as an in-built timer which allows for a delayed start or a fixed process duration.

Model	ELF 11/6	ELF 11/14	ELF 11/23
Max. Temperature (°C)	1100	1100	1100
Continuous Temperature (°C)	1000	1000	1100
Chamber Dimensions:			
H (mm)	165	210	235
W (mm)	180	220	255
D mm	210	310	400
External Dimensions:			
H (mm)	580	630	715
W (mm)	410	450	505
D (mm)	420	520	660
Heat up time (mins)	35	40	29
Temperature uniformity @ 1000°C in a uniform envelope of:	±5°C	±5°C	±5°C
H (mm)	115	130	665
W (mm)	130	140	455
D (mm)	130	220	610
Max. (W)	2000	2600	5000
Holding Power (W)	900	1300	1500
Internal volume (l)	6	14	23
Thermocouple Type	K	K	K
Weight (kg)	24	31	-

- 1) Holding power is measured at 100°C below max. temperature, based on 240V supply, with an empty chamber.
- 2) Uniformity graphs are available on request, for most models.
- 3) All external dimensions are taken with the door closed and include a chimney.
- 4) Heat up time is measured at 100°C below max. temperature with an empty chamber.