

## Laboratory Chamber Furnace - ELF

### General Information

The ELF laboratory furnaces comprise 3 bench mounted models designed for light duty and general use up to 1100 °C.

These laboratory furnaces have a simple drop down door and a top mounted ceramic chimney. The combination of low thermal mass insulation and free radiating wire elements embedded in the chamber sides provide efficient heating.



### Standard features

- 1100°C maximum operating temperature
- 6, 14 or 23 litre chamber volumes
- Drop down door with air gap to minimise external temperature
- Carbolite Gero 301 controller, with single ramp to set-point & process timer
- Delayed start / process timer function as standard
- Vacuum formed, low thermal mass insulation
- Hard ceramic hearth fitted as standard
- Ventilated via top mounted ceramic chimney

### Options (specify these at time of order)

- Over-temperature protection (recommended to protect valuable contents & for unattended operation)

### Technical Specifications

#### ELF 11/6

Max temp (°C)	1100
Max continuous operating temp (°C)	1000
Volume (litres)	6
Heat-up time (mins)	28
Dimensions: Internal H x W x D (mm)	165 x 180 x 210
Dimensions: External H x W x D (mm)	580 x 410 x 420
Temperature uniformity of $\pm 5^{\circ}\text{C}$ within H x W x D (mm)	125 x 140 x 140
Max power (W)	2000
Holding power (W)	900
Thermocouple type	K
Weight (kg)	24

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### ELF 11/14

Max temp (°C)	1100
Max continuous operating temp (°C)	1000
Volume (litres)	14
Heat-up time (mins)	43
Dimensions: Internal H x W x D (mm)	210 x 220 x 310
Dimensions: External H x W x D (mm)	630 x 450 x 520
Temperature uniformity of ± 5°C within H x W x D (mm)	170 x 180 x 205
Max power (W)	2600
Holding power (W)	1300
Thermocouple type	K
Weight (kg)	31

### ELF 11/23

Max temp (°C)	1100
Max continuous operating temp (°C)	1000
Volume (litres)	23
Heat-up time (mins)	26
Dimensions: Internal H x W x D (mm)	235 x 255 x 400
Dimensions: External H x W x D (mm)	715 x 505 x 690
Temperature uniformity of ± 5°C within H x W x D (mm)	195 x 215 x 305
Max power (W)	5000
Holding power (W)	1550
Thermocouple type	K
Weight (kg)	52

#### Please note:

- Heat up rate is measured to 100°C below max, using an empty chamber
- Holding power is measured at continuous operating temperature
- External dimensions with door closed and including chimney
- The uniform volume is smaller than the total chamber volume