

General Laboratory Furnace

General Laboratory Furnace CWF Range

The CWF range is a general use laboratory chamber furnaces that is bench mounted. There are 5 different sizes available with maximum operating temperature up to 1300°C.

In the CWF-B furnaces the airflow is enhanced by additional air inlet holes in the door and tall chimney removing fumes rapidly.

The CWF-BAL furnaces has an integral balance that can be used for thermogravimetric analysis (TGA) and loss on ignition (LOI) applications. Weight change of the sample has to be monitored during the heating process.

Standard Features:

- 1100°C, 1200°C or 1300°C maximum operating temperatures
- Controller, with single ramp to set-point & process timer
- 5, 13, 23, 36 or 65 litre chamber volumes
- Vertical lift door keeps heated surface away from the user
- Soft closing door (5, 13, 21 & 23 litre models only)
- Delayed start/process timer function
- Easy access to elements, controls that simplify maintenance and servicing
- Low thermal mass insulation for high energy efficiency

Optional Extras:

- Over temperature protection
- A range of sophisticated digital controllers, multi-segment programmers and data loggers.
- Can be fitted with RS232, RS485 or Ethernet communications.
- Different metallic retorts to work with modified atmospheres up to 1150°C.
- CWF-BAL 8 kg balance with a resolution of 0.1g



Type	Max Temp (°C)	Volume (litres)	Heat-up Time (mins)	Internal Dimensions H x W x D mm	External Dimensions H x W x D mm (H door open)	Temperature uniformity of ±5°C (H x W x D) mm	Max Power (W)	Holding Power (W)	Weight (kg)	
CWF 11/5	1000	5	47	135 x 140 x 250	585 x 375 x 485 (800)	85 x 90 x 110	2400	790	30	R
CWF11/13	1000	13	90	200 x 200 x 325	655 x 435 x 610 (905)	120 x 120 x 185	3100	1500	47	R
CWF11/23	1100	23	36	235 x 245 x 400	705 x 505 x 675 (990)	155 x 165 x 285	7000	1900	68	R
CWF12/5	1200	5	51	135 x 140 x 250	585 x 375 x 485 (800)	85 x 90 x 125	2400	850	30	R
CWF 12/13	1200	13	80	200 x 200 x 325	655 x 435 x 610 (905)	120 x 120 x 200	3100	1550	47	R
CWF 12/23	1200	23	45	235 x 245 x 400	705 x 505 x 675 (990)	155 x 165 x 325	7000	2250	68	R
CWF 12/36	1200	36	37	250 x 320 x 450	810 x 690 x 780 (1105)	170 x 240 x 357	9000	—	100	R
CWF 12/65	1200	65	40	278 x 388 x 595	885 x 780 x 945 (1245)	178 x 288 x 455	14000	—	165	R
CWF 13/5	1300	5	75	135 x 140 x 250	585 x 375 x 485 (800)	85 x 90 x 150	2400	1000	30	R
CWF 13/13	1300	13	115	200 x 200 x 325	655 x 435 x 610 (905)	120 x 120 x 225	3100	1800	47	R
CWF 13/23	1300	23	55	235 x 245 x 400	705 x 505 x 675 (990)	155 x 165 x 340	7000	2500	68	R
CWF 13/36	1300	36	47	250 x 320 x 450	810 x 690 x 780 (1105)	170 x 240 x 400	9009	—	100	R
CWF 13/65	1300	65	55	278 x 388 x 595	885 x 780 x 945 (1245)	178 x 288 x 255	14000	—	165	R
CWF-B 11/13	1100	13	60	200 x 200 x 325	655 x 435 x 610 (905)	n/a	3100	1600	47	K
CWF-B 12/13	1200	13	130	200 x 200 x 325	655 x 435 x 610 (905)	n/a	3100	1900	47	R
CWF-BAL 11/21	1100	21	60	215 x 245 x 400	705 x 505 x 675 (990)	n/a	7000	—	80	K

General Laboratory Furnace RWF Range

The RWF rapid wire chamber furnaces come in 3 different sizes with maximum operating temperature of 1100°C or 1200°C. A rapid thermal response within the chamber is created by free radiating wire elements in combinations with low thermal mass insulation.

Standard Features:

- 1100°C or 1200°C maximum operating temperatures
- 5, 13 or 23 litre chamber volumes
- Ambient to 1000°C in as little as 10 minutes
- Free radiating coiled wire elements creating rapid thermal response.
- Soft closing vertical lift door keeping the heated surface away from the user
- Controller with single ramp to set-point & process timer
- Hard wearing hearth
- Low thermal mass insulation for high energy efficiency

Optional Extras:

- Over temperature protection
- A range of sophisticated digital controllers, multi-segment programmers and data loggers.
- Can be fitted with RS232, RS485 or Ethernet communications.



Type	Max Temp (°C)	Volume (litres)	Heat-up Time (mins)	Internal Dimensions H x W x D mm	External Dimensions H x W x D mm (H door open)	Max Power (W)	Holding Power (W)	Weight (kg)	Thermocouple Type
RWF 11/5	1100	5	10	130 x 160 x 250	585 x 375 x 325 (800)	2750	680	28	K
RWF 11/13	1100	13	11	195 x 210 x 325	655 x 435 x 610 (905)	5000	1200	45	K
RWF 11/23	1100	23	13	220 x 260 x 400	705 x 505 x 675 (990)	9100	1800	65	K
RWF 12/5	1200	5	12	130 x 160 x 250	585 x 375 x 485 (800)	2750	820	28	R
RWF 12/13	1200	13	13	195 x 210 x 325	655 x 435 x 610 (905)	5000	1450	45	R
RWF 12/23	1200	23	15	220 x 260 x 400	705 x 505 x 675 (990)	9100	2100	65	R

ELF Range—1100°C Drop Down Door Laboratory Chamber Furnaces

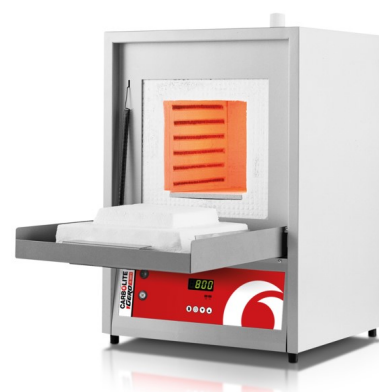
The ELF laboratory furnaces have 3 bench mounted models for light duty and general use up to 1100°C. The furnaces have a simple drop down door and a mounted ceramic chimney.

Standard Features:

- 1100°C maximum operating temperature
- 6, 14 or 23 litre chamber volumes
- Drop down door with air gap to minimise external temperature
- C301 controller with single ramp to set point and process timer
- Delay start/process timer function
- Vacuum formed low thermal mass insulation
- Hard ceramic hearth fitted
- Ventilated via top mounted ceramic chimney

Optional Extras:

- Over temperature protection .



Type	Max Temp (°C)	Volume (litres)	Heat-up Time (mins)	Internal Dimensions H x W x D mm	External Dimensions H x W x D mm	Temperature uniformity of +/- 5°C H x W x D	Max Power (W)	Holding Power (W)	Weight (kg)	Thermocouple Type
ELF 11/6	1100	6	28	165 x 180 x 210	580 x 410 x 420	125 x 140 x 140	2000	900	24	K
ELF 11/14	1100	14	43	210 x 220 x 310	630 x 450 x 520	170 x 180 x 205	2600	1300	31	K
ELF 11/23	1100	23	26	235 x 255 x 400	715 x 505x 690	195 x 215 x 305	5000	1550	52	K