



LABORATORY CHAMBER FURNACE - CWF

The CWF range of general purpose laboratory chamber furnaces is bench mounted. Models are available in five sizes with a maximum operating temperature up to 1300 °C.

STANDARD FEATURES

- | 1100°C, 1200°C or 1300°C maximum operating temperature
- | 5, 13, 23, 36 or 65 litre chamber volumes
- | Programmable EPC3016P1 controller
- | Vertical lift door keeps heated surface away from the user
- | Soft closing door on 5, 13 & 23 litre models protects the thermal insulation
- | Hard wearing alumina element carrier, furnace entrance and hearth
- | Energy efficient low thermal mass insulation
- | Free radiating wire wound elements for optimum uniformity
- | Easy access to elements & controls simplifies maintenance & servicing



OPTIONS (*SPECIFY THESE AT TIME OF ORDER*)

- | A range of sophisticated digital controllers, multisegment programmers and data loggers with digital communication options is available - more information about controllers
- | Over-temperature protection (recommended to protect valuable contents & for unattended operation)
- | A range of metallic retorts to work with modified atmospheres up to 1100°C
- | Bespoke specifications are available for AMS2750H (Nadcap) compliant applications

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EXAMPLES



CWF11/13



CWF13/23

TECHNICAL DETAILS (MODELS)

	CWF 11/5	CWF 11/13	CWF 11/23
Max temp (°C)	1100	1100	1100
Heat-up time (mins)	47	76	36
Max continuous operating temp (°C)	1000	1000	1000
Dimensions:			
Internal H x W x D (mm)	135 x 140 x 250	200 x 200 x 325	235 x 245 x 400
Dimensions:			
External H x W x D (mm)	595 x 375 x 495	670 x 435 x 608	715 x 505 x 680
Dimensions:			
External with door open H x W x D (mm)	810 x 375 x 540	915 x 435 x 675	1000 x 505 x 765
Temperature uniformity of $\pm 5^{\circ}\text{C}$ within H x W x D (mm)	85 x 90 x 110	120 x 120 x 185	155 x 165 x 285
Volume (litres)	5	13	23
Max power (W)	2400	3100	7000
Holding power (W)	790	1500	1900
Thermocouple type	R	R	R
Weight (kg)	30	47	68

	CWF 12/5	CWF 12/13	CWF 12/23
Max temp (°C)	1200	1200	1200
Heat-up time (mins)	51	88	45
Max continuous operating temp (°C)	1100	1100	1100
Dimensions:			
Internal H x W x D (mm)	135 x 140 x 250	200 x 200 x 325	235 x 245 x 400
Dimensions:			
External H x W x D (mm)	595 x 375 x 495	670 x 435 x 608	715 x 505 x 680
Dimensions:			
External with door open H x W x D (mm)	810 x 375 x 540	915 x 435 x 675	1000 x 505 x 765
Temperature uniformity of $\pm 5^{\circ}\text{C}$ within H x W x D (mm)	85 x 90 x 125	120 x 120 x 200	155 x 165 x 325
Volume (litres)	5	13	23
Max power (W)	2400	3100	7000
Holding power (W)	850	1550	2250
Thermocouple type	R	R	R
Weight (kg)	30	47	68

	CWF 12/36	CWF 12/65	CWF 13/5
Max temp (°C)	1200	1200	1300
Heat-up time (mins)	37	40	75
Max continuous operating temp (°C)	1100	1100	1200
Dimensions: Internal H x W x D (mm)	250 x 320 x 450	278 x 388 x 595	135 x 140 x 250
Dimensions: External H x W x D (mm)	810 x 690 x 780	885 x 780 x 945	595 x 375 x 495
Dimensions: External with door open H x W x D (mm)	1105 x 690 x 780	1245 x 780 x 945	810 x 375 x 540
Temperature uniformity of $\pm 5^{\circ}\text{C}$ within H x W x D (mm)	170 x 240 x 357	178 x 288 x 455	85 x 90 x 150
Volume (litres)	36	65	5
Max power (W)	9000	14000	2400
Holding power (W)	--	--	1000
Thermocouple type	R	R	R
Weight (kg)	100	165	30

	CWF 13/13	CWF 13/23	CWF 13/36
Max temp (°C)	1300	1300	1300
Heat-up time (mins)	121	55	47
Max continuous operating temp (°C)	1200	1200	1200
Dimensions:			
Internal H x W x D (mm)	200 x 200 x 325	235 x 245 x 400	250 x 320 x 450
Dimensions:			
External H x W x D (mm)	670 x 435 x 608	715 x 505 x 680	810 x 690 x 780
Dimensions:			
External with door open H x W x D (mm)	915 x 435 x 675	1000 x 505 x 765	1105 x 690 x 780
Temperature uniformity of $\pm 5^{\circ}\text{C}$ within H x W x D (mm)	120 x 120 x 225	155 x 165 x 340	170 x 240 x 400
Volume (litres)	13	23	36
Max power (W)	3100	7000	9000
Holding power (W)	1800	2500	--
Thermocouple type	R	R	R
Weight (kg)	47	68	100

CWF 13/65

Max temp (°C)	1300
Heat-up time (mins)	55
Max continuous operating temp (°C)	1200
Dimensions: Internal H x W x D (mm)	278 x 388 x 595
Dimensions: External H x W x D (mm)	885 x 780 x 945
Dimensions: External with door open H x W x D (mm)	1245 x 780 x 945
Temperature uniformity of $\pm 5^{\circ}\text{C}$ within H x W x D (mm)	178 x 288 x 255
Volume (litres)	65
Max power (W)	14000
Holding power (W)	--
Thermocouple type	R
Weight (kg)	165

Please note

- Heat up rate is measured to 100°C below max, using an empty chamber
- Holding power is measured at continuous operating temperature
- Maximum power and heat up times based on a 240V supply
- The uniform volume is smaller than the total chamber volume

* Dimensions of control box

www.carbolite.com/cwf