



General Features

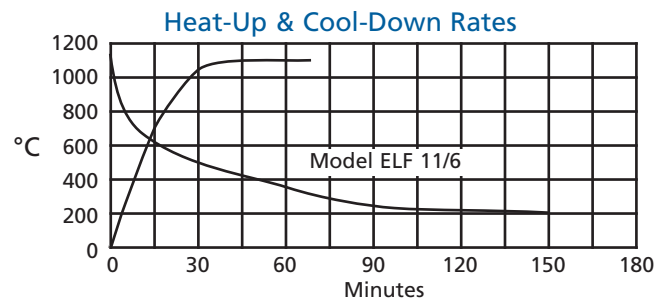
- Maximum operating temperature of 1100°C.
- Three chamber sizes available.
- Rapid heat-up to operating temperature.
- Excellent chamber uniformity.
- Drop-down door serves as a shelf when loading and unloading samples.
- Positive break door safety switch isolates power to the chamber when door is opened.
- Furnace incorporates low thermal mass ceramic fiber insulation for improved response times.
- Long-life heating elements.
- Integral Model 301 PID temperature controller with single ramp to setpoint facility.
- Delayed start and process timer function is standard.
- Ideal for light duty applications requiring good thermal response.
- Low outer case temperature provided through double shell construction.
- Dense ceramic hearth provides excellent resistance to wear and spillage.
- Chamber vent provides for process exhaust.
- Small case size conserves bench space.
- Cost effective



ELF 11/6/301

TYPICAL APPLICATIONS

- | | |
|--------------------|-------------|
| • Material Testing | • Tempering |
| • Heat Treating | • Sintering |
| • Annealing | • Melting |
| • Fusions | • Curing |
| • Hardening | • Drying |



1100°C Economy Box Furnaces											
Furnace Model	Max. Temp. (°C)	Internal Chamber Dimensions			External Dimensions			TC Type	Max. Power (kW)	Furnace Voltage	Shipping Weight (lb.)
		Height	Inches (mm) Width	Depth	Height	Inches (mm) Width	Depth				
◆ ELF 11/6	1100	6.50 (165)	7.00 (180)	8.25 (210)	22.75 (580)	16.25 (410)	16.25 (410)	K	2.0	208/240	62
◆ ELF 11/14	1100	8.25 (210)	8.75 (220)	12.25 (310)	24.75 (630)	17.75 (450)	20.50 (520)	K	2.6	208/240	86
◆ ELF 11/23	1100	9.25 (235)	10.00 (255)	15.75 (400)	28.25 (715)	20.00 (505)	26.00 (660)	K	5.0	208/240	155

Specify voltage at time of order.

Furnaces operate on single phase voltage.



1100°C, 1200°C & 1300°C General Purpose Box Furnaces



CWF 12/13/3216P1

General Features

- Maximum operating temperatures of 1100°C, 1200°C and 1300°C.
- Three chamber sizes available.
- Two high power side heating elements provide enhanced heat-up and chamber uniformity.
- Graded element winding further optimizes chamber uniformity.
- Dense refractory around chamber entrance resists abrasion and wear.
- Chamber vent provides for process exhaust.
- Vertical lift door design keeps hot door insulation away from operator.
- Hard ceramic hearth provides excellent resistance to wear and spillage.
- Low thermal mass insulation improves both energy efficiency and the furnace thermal performance.
- Low outer case temperature provided through double shell construction.
- Positive break door safety switch isolates power to the heating elements when door is opened.
- Choice of Model 301 control or programmers.
- Small case size conserves bench space.
- Serviceability is aided by the furnace's mechanical and electrical design.
- Choice of multiple accessories and options. (See pages 43-46)

SEVERAL CWF BOX FURNACE OPTIONS

- Viewing Port
- Inert Gas Inlet
- Flowmeters
- Gas Tight Retorts
- Programmable Controls
- Digital Communications
- Over-Temperature Control
- Gas Safety System

1100°C, 1200°C and 1300°C General Purpose Box Furnaces

Furnace Model	Max. Temp. (°C)	Internal Chamber Dimensions			External Dimensions			TC Type	Max. Power (kW)	Furnace Voltage	Shipping Weight (lb.)
		Height	Inches (mm) Width	Depth	Height	Inches (mm) Width	Depth				
CWF 11/5	1100	5.25 (135)	5.50 (140)	10.00 (250)	23.00 (585)	14.75 (375)	19.00 (485)	K	2.4	208/240	80
CWF 11/13	1100	8.00 (200)	8.00 (200)	13.00 (325)	25.75 (655)	17.00 (432)	24.00 (610)	K	3.1	208/240	125
CWF 11/23	1100	9.25 (235)	9.50 (245)	15.75 (400)	27.75 (705)	20.00 (505)	26.50 (675)	K	7.0	208/240	163
CWF 12/5	1200	5.25 (135)	5.50 (140)	10.0 (250)	23.00 (585)	14.75 (375)	19.00 (485)	R	2.4	208/240	80
◆ CWF 12/13	1200	8.00 (200)	8.00 (200)	13.00 (325)	25.75 (655)	17.00 (432)	24.00 (610)	R	3.1	208/240	125
◆ CWF 12/23	1200	9.25 (235)	9.50 (245)	15.75 (400)	27.75 (705)	20.00 (505)	26.50 (675)	R	7.0	208/240	163
CWF 13/5	1300	5.25 (135)	5.50 (140)	10.0 (250)	23.00 (585)	14.75 (375)	19.00 (485)	R	2.4	208/240	80
◆ CWF 13/13	1300	8.00 (200)	8.00 (200)	13.00 (325)	25.75 (655)	17.00 (432)	24.00 (610)	R	3.1	208/240	125
CWF 13/23	1300	9.25 (235)	9.50 (245)	15.75 (400)	27.75 (705)	20.00 (505)	26.50 (675)	R	7.0	208/240	163

◆ Stock Products

Note: CWF 12/13, CWF 13/13 and CWF 12/23 are stocked with 3216P1 programmer.

Specify voltage at time of order.

Continuous operating temperature is 100°C below maximum temperature.

Furnaces operate on single phase voltage.