

Box Furnaces

Standard Products - Elite's standard range of Box Furnaces is designed to meet the requirements of most Research and Process applications.

Custom Designs - For those "one off" specialist requirements Elite's in-house design team is able to work with you on a "one to one" basis to develop a cost effective design solution to meet your specific needs.

Product Quality - All Elite Box Furnaces are designed and manufactured to meet the highest standards of Quality, Reliability and Operator Safety.

Air Recirculating Furnaces

750°C maximum

Air re-circulating furnaces provide good temperature uniformity, and rapid thermal transfer to the load at lower temperatures.

- Available in 15 & 31 litres capacities as standard, with larger units being made to customer specifications.

- Stainless steel liner.
- MI heating elements which are isolated from the liner.

Model	Max Temp (°C)	Max Cont (°C)	Max Chamber Dims (mm) HxWxD	External Case Dims (mm) HxWxD	Chamber Capacity (litres)	Max Power (Kw)	Volts	Phase	Nett Wt. (kg)	Hearth Tile
BAF7/15	750	700	220 x 220 x 305	680 x 530 x 550	15	3.0	240	1	88	N/A
BAF7/31	750	700	250 x 250 x 500	780 x 630 x 715	31	6.0	240	1	130	N/A



Economy Furnaces

1100°C maximum

The BCF & BMF models have been developed to meet the need for basic specification products at economical prices.

- The BCF is suitable for light-duty general laboratory work, and provides satisfactory performance for many firing applications.

- The BMF is designed for ashing applications and features an airflow system and large chimney to ensure good combustion conditions within the chamber.

Model	Max Temp (°C)	Max Cont (°C)	Max Chamber Dims (mm) HxWxD	External Case Dims (mm) HxWxD	Chamber Capacity (litres)	Max Power (Kw)	Volts	Phase	Nett Wt. (kg)	Hearth Tile
BMF11/7	1100	1050	125 x 178 x 305	470 x 530 x 420	7	2.0	240	1	33	S
BCF11/8	1100	1100	180 x 190 x 235	470 x 530 x 420	8	2.0	240	1	19	S



General Purpose Furnaces

1200°C & 1300°C maximum

BSF - The BSF furnace is designed for general laboratory use, especially ashing. Its design makes it ideal for treating heavier loads, and the processing of materials that could contaminate bottom heating elements through spillage.

- Optional 4 side heating for when heavier loads, or, metal gas tight retorts are used.
- An Ashing option is available which provides good combustion conditions in the chamber, and improved process fume removal from the chamber.

BCF - The BCF is a rapid heating furnace for general purpose use where relatively clean operating conditions prevail. Good temperature uniformity is achieved by the use of open spiral elements retained in low thermal mass chamber wall panels.

- Optional Ceramic liners can be fitted to give protection against chemical attack; to minimise dust and to facilitate the use of inert gases.

Model	Max Temp (°C)	Max Cont (°C)	Max Chamber Dims (mm) HxWxD	External Case Dims (mm) HxWxD	Chamber Capacity (litres)	Max Power (Kw)	Volts	Phase	Nett Wt. (kg)	Hearth Tile
BSF12/4	1200	1150	101 x 152 x 254	680 x 530 x 550	4	1.5	240	1	47	0
BSF12/6	1200	1150	127 x 152 x 305	730 x 580 x 665	6	2.0	240	1	58	0
BSF12/10	1200	1150	127 x 178 x 406	730 x 580 x 665	10	2.5	240	1	64	0
BSF12/22	1200	1150	203 x 228 x 454	880 x 730 x 765	22	5.0	240	1	125	0
BSF12/30	1200	1150	203 x 305 x 454	880 x 730 x 765	30	5.0	240	1	130	0
BSF12/45	1200	1150	305 x 305 x 454	880 x 730 x 765	45	6.0	240	1	130	0
BSF13/5	1300	1250	150 x 150 x 150	680 x 530 x 550	5	2.0	240	1	41	0
BCF13/12	1300	1250	200 x 200 x 300	730 x 580 x 665	12	3.0	240	1	54	0
BCF13/25	1300	1250	250 x 250 x 400	780 x 630 x 715	25	6.0	240	1	67	0
BCF13/42	1300	1250	305 x 305 x 450	880 x 730 x 765	42	9.0	415	3	117	0



Light Industrial Furnaces

1200°C to 1700°C maximum

In addition to its custom design service Elite also manufactures a range of Industrial furnaces for use in a variety of industrial sectors, including Engineering Ceramics, Glass melting / processing, Quality Assurance and Metals.

- A range of optional features and accessories are available to customise these units, including retorts, gas control systems and loading/unloading systems.

Model	Max Temp (°C)	Max Cont (°C)	Max Chamber Dims (mm) HxWxD	External Case Dims (mm) HxWxD	Chamber Capacity (litres)	Max Power (Kw)	Volts	Phase
Front Loading Box Furnaces								
BIF12/102	1200	1150	350 x 450 x 650	1800 x 950 x 1150	102	20	415	3
BIF12/203	1200	1150	450 x 600 x 750	1950 x 1150 x 1300	203	35	415	3
BIF15/102	1500	1500	350 x 450 x 650	1800 x 950 x 1150	102	30	415	3
BIF15/203	1500	1500	450 x 600 x 750	1950 x 1150 x 1300	203	45	415	3
BIF17/82	1700	1700	450 x 300 x 610	1830 x 1010 x 1000	82	24	415	3
BIF17/91	1700	1700	450 x 450 x 450	1960 x 1510 x 1125	91	24	415	3
BIF17/227	1700	1700	610 x 610 x 610	2150 x 1610 x 1200	227	36	415	3
Elevator Hearth Box Furnaces								
BEB17/27	1700	1700	300 x 300 x 300	2200 x 800 x 800	27	15	415	3
BEB17/91	1700	1700	450 x 450 x 450	2200 x 1000 x 1000	91	24	415	3
BEB17/227	1700	1700	610 x 610 x 610	2510 x 1210 x 1210	227	36	415	3



Location of Furnace Controls

- Box furnace controls are mounted vertically down the front, right hand side.
- They can also be mounted in the furnace base if you prefer. (This option changes the furnace external dimensions by: Height + 80mm and Width - 130mm)