

BLF bottom loading furnaces use an electrically operated elevator hearth which rises into the furnace chamber carrying the load.

This furnace provides the following advantages: easy loading of samples and uniform heating achieved by locating elements in all six side walls of the chamber.

Standard features

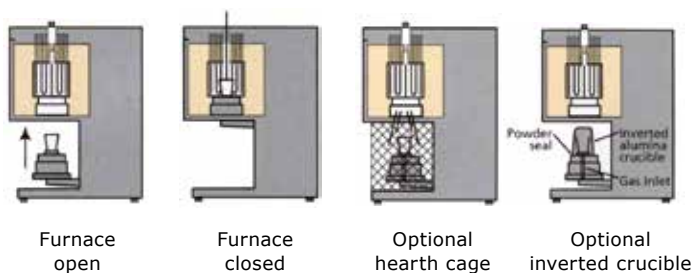
- 1700 °C & 1800 °C maximum operating temperature
- 3 to 21 litre capacities
- Ideal for: sintering high performance ceramics, melting glass under high temperature or working with modified atmospheres
- Rapid heating & cooling cycles can be achieved through raising & lowering the hearth
- Electrically operated elevator hearth protects operator from the chamber's radiant heat
- Excellent temperature uniformity as a result of the hexagonal chamber
- Over-temperature protection to protect load or furnace during unattended operation
- Programmable 3216P1 controller
- Molybdenum disilicide heating elements



BLF 17/3

Options (specify these at time of order)

- Compatible crucibles
- Modified hearth for the introduction of gases into an inverted crucible (not gas tight)
- Radiation shutter
- Hearth cage
- A range of sophisticated digital controllers, multi-segment programmers and data loggers is available. These can be fitted with RS232, RS485 or Ethernet communications (see pages 88-91)
- Customised options including: adaptation to introduce thermocouple or stirrer through the chamber roof and rotating hearth



Technical data

Model	Max temp (°C)	Heat-up time (mins)	Dimensions: Internal H x Diameter (mm)	Dimensions: External H x W x D (mm)	Volume (litres)	Max power (W)	Thermocouple type	Weight (kg)
BLF 17/3	1700	80	190 x 150	975 x 750 x 530 (Bench-top)	3	4125	B	155
BLF 17/8	1700	80	250 x 200	1950 x 1360 x 800 (Floor-standing)	8	8130	B	424
BLF 17/21	1700	180	300 x 300	1850 x 1250 x 900 (Floor-standing)	21	12000	B	600
BLF 18/3	1800	110	190 x 150	975 x 750 x 530 (Bench-top)	3	4775	Pt20%Rh/Pt40%Rh	155
BLF 18/8	1800	110	250 x 200	1950 x 1360 x 800 (Floor-standing)	8	7010	Pt20%Rh/Pt40%Rh	424

Please note:

- Maximum continuous operating temperature is 100 °C below maximum temperature
- Heat up time is measured to 100 °C below max, using an empty hearth

- Chemical reaction between the heating elements and zirconia may discolour the zirconia. Processing advice or alternative elements are available; please enquire.



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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.