

# ashing & burn off furnaces



**BWF 11/13/301**

## BWF Furnaces

These models are heated by free radiating coiled wire heating elements housed in a high quality alumina based hard wearing element carrier. With the use of graded winding, the elements compensate for heat loss and optimise temperature uniformity within the chamber. The elements are located in the sides only and so are protected from contamination by accidental spillage. Hard wearing refractories around the chamber entrance and in the chamber base provide excellent resistance to everyday wear and tear.

Airflow in the BWF is enhanced by the addition of a tall chimney and air inlet holes in the door, which rapidly remove the fumes from the furnace, preventing carbon deposits forming.



**GSM 11/8**

## GSM Furnace

Some analysis techniques may be affected by alumina or silica dust ( $\text{Al}_2\text{O}_3$  or  $\text{SiO}_2$ ), the materials normally used to construct furnace chambers. To avoid this the GSM furnace chamber is constructed from a fused quartz material.

This minimises the risk of dust falling from the chamber roof into the sample crucibles, however the door insulation is moulded ceramic fibre which may produce small dust particles and therefore dust cannot be entirely excluded.

This design also offers superior containment of aggressive and corrosive vapours such as  $\text{H}_2\text{SO}_4$ ,  $\text{HNO}_3$   $\text{HCl}$ , keeping them away from the heating elements.

Additionally if an optional gas inlet is specified, the enclosed design minimises gas leakages from the chamber.

Model	GSM 11/8	BWF 11/13	BWF 12/13
Max. Temperature (°C)	1100	1100	1200
Continuous Temperature (°C)	1000	1000	1000
Internal Dimensions:			
H (mm)	120	200	200
W (mm)	175	200	200
D (mm)	345	325	325
Internal Volume	8	13	13
External Dimensions:			
H (mm)	655	705	655
W (mm)	435	505	435
D (mm)	610	725	610
Height to Top of Chimney	800	1750	800
Max. Power (W)	3050	3100	3100
Holding Power (W)	1700	1200	1500
Heat up Time (mins)	70	90	60
Thermocouple Type	K	K	R
Weight (kg)	59	47	47

1) Holding power is measured at 100°C below max. temperature, based on 240V supply, with an empty chamber.

2) Uniformity graphs are available on request, for most models.

3) All external dimensions are taken with the door closed and include a chimney.

4) Heat up time is measured at 100°C below max. temperature with an empty chamber.



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



**UK Office**

**Keison Products,**

**P.O. Box 2124, Chelmsford, Essex, CM1 3UP, England.**

**Tel: +44 (0)330 088 0560**

**Fax: +44 (0)1245 808399**

**Email: [sales@keison.co.uk](mailto:sales@keison.co.uk)**

Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.