



## ASHING FURNACE GSM

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

This design also offers superior containment of aggressive and corrosive vapours such as sulphuric, nitric and hydrochloric acids by keeping them away from the heating elements.

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

## STANDARD FEATURES

- | 1100°C maximum operating temperature
- | Carbolite 301 controller, with single ramp to set-point & process timer
- | Fused quartz furnace chamber, ideal for analyses where  $\text{Al}_2\text{O}_3$  or  $\text{SiO}_2$  could contaminate test results
- | Chamber lining offers superior containment of corrosive & aggressive vapours such as  $\text{H}_2\text{SO}_4$ ,  $\text{HNO}_3$ ,  $\text{HCl}$
- | Moulded ceramic fibre door plug
- | 4 sided heating (2 sides, roof, hearth)

## 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
- | Gas Inlet for modified atmospheres (the fused quartz liner provides improved containment)
- | Sample trays & racks

	<b>GSM 11/8</b>
<b>Max temp (°C)</b>	1100
<b>Heat-up time (mins)</b>	70
<b>Max continuous operating temp (°C)</b>	1000
<b>Dimensions: Internal H x W x D (mm)</b>	120 x 175 x 345
<b>Dimensions: External H x W x D (mm)</b>	670 x 435 x 750
<b>Dimensions: External with door open H x W x D (mm)</b>	915 x 435 x 805
<b>Dimensions: Height to top chimney (mm)</b>	1070
<b>Volume (litres)</b>	8
<b>Max power (W)</b>	3050
<b>Holding power (W)</b>	1700
<b>Thermocouple type</b>	K
<b>Weight (kg)</b>	57

**Please note**

- Heat up rate is measured to 100°C below max, using an empty chamber
- Holding power is measured at continuous operating temperature
- The maximum depth to accommodate the door opening arc is 810mm
- Maximum power and heat up times based on a 240V supply

## TECHNICAL DETAILS (MODELS)

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[www.carbolite.com/gsm](http://www.carbolite.com/gsm)