

Some analysis techniques may be affected by alumina or silica dust (Al_2O_3 and 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 Gero 301 single ramp to setpoint & process timer
- Fused quartz furnace chamber, ideal for analyses where Al_2O_3 and SiO_2 could contaminate test results
- Chamber lining offers superior containment of corrosive & aggressive vapours such as H_2SO_4 , HNO_3 , HCl
- Moulded ceramic fibre door plug

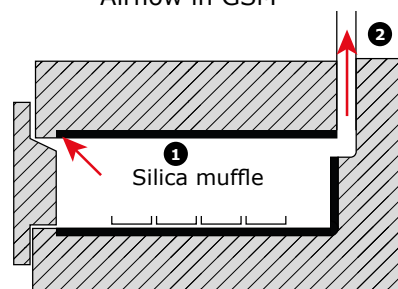


GSM 11/8

Options (specify these at time of order)

- 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 94 – 97)
- Over-temperature protection (recommended to protect valuable contents and for unattended operation)
- Gas inlet for modified atmospheres (the fused quartz liner provides improved containment)
- Sample trays & racks

Airflow in GSM



- 1) Quartz silica muffle protects the heating elements
- 2) Chimney vents fumes from the chamber

Technical data

CGH	Max. temp. [°C]	Heat-up time [mins]	Max. continuous operating temperature [°C]	Dimensions: Internal H x W x D [mm]	Dimensions: External H x W x D [mm]	Dimensions: External with door open H x W x D [mm]	Dimensions: Height to top chimney [mm]	Volume [litres]	Max. power [W]	Holding power [W]	Thermocouple type	Weight [kg]
GSM 11/8	1100	70	1000	120 x 175 x 345	655 x 435 x 750	895 x 435 x 750	1060	8	2950	1700	K	57

Please note:

- Heat up time is measured to 100°C below max, using an empty chamber
- Holding power is measured at continuous operating temperature

- Maximum power and heat up time based on a 240 V supply
- The maximum depth to accommodate the door opening arc is 810 mm