Ashing Furnace GSM

General Information

Some analysis techniques may be affected by alumina or silica dust (Al2O3 at SiO2) - 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
- Fused quartz furnace chamber, ideal for analyses where Al2O3 or SiO2 could contaminate test results
- Chamber lining offers superior containment of corrosive & aggressive vapours such as H2SO4, HNO3, HCl
- Moulded ceramic fibre door plug
- 4 sided heating (2 sides, roof, hearth)

Options (specify these at time of order)

- Gas Inlet for modified atmospheres (the fused quartz liner provides improved containment)
- Sample trays & racks
- A range of sophisticated digital controllers, multi-segment programmers and data loggers is available. These can be fitted with RS232, RS485 or Ethernet communications

Technical Specifications

GSM 11/8	
Max temp (°C)	1100
Heat-up time (mins)	70
Max continuous operating temp (°C)	1000
Dimensions: Internal H x W x D (mm)	120 x 175 x 345
Dimensions: External H x W x D (mm)	655 x 435 x 750
Dimensions: External with door open H x W x D (mm)	895 x 435 x 750
Dimensions: Height to top chimney (mm)	1060

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Volume (litres)	8
Max power (W)	3050
Holding power (W)	1700
Thermocouple type	K
Weight (kg)	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