



## Technical specification information for Carbolite Acid Gas Determinator (AGD)

Maximum operating temperature (°C)	1200
Furnace tubes (included)	4 IAP tubes 50 x 60 x 800mm, arranged 2 above 2
Inner tubes (optional)	Four clear fused silica (SiO <sub>2</sub> ) tubes, 41 x 45 x 1000mm (Note: silica tends to devitrify when used above 1000°C)
Heated length (mm)	550
Heating rate	Less than 40 minutes to 800°C (better than 20°C/minute to 1000°C)
Temperature uniformity	The temperatures at the centre of each of the four silica tubes will be within $\pm 5^{\circ}\text{C}$ of each other over a 300mm length, with no gas flow (BS 6425 requires $\pm 17.5^{\circ}\text{C}$ over 300mm with a small gas flow)
Heating elements	Resistance wire spirals embedded in the inner surface of vacuum formed ceramic fibre cylinders
Temperature sensor	Type R Pt/Pt 13%Rh thermocouple
Temperature control	Carbolite 201 panel mounted digital PID controller giving pre-set control of the heating rate and maximum temperature
Power control	Solid state relay incorporating zero voltage switching
Power supply	220/240V, 50/60Hz, single phase, 20 amps
External dimensions (mm)	640 (h) x 800 (w) x 480(d) excluding tubes

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