

Ai 1700C Controlled Atmosphere Muffle Furnace with PC Interface

SKU | GCF1700



Technical Specifications

Electrical requirements	208-240V, 50/60Hz, single phase
Heating element type	Molybdenum silicide
Temperature controller	Eurotherm 3204 Controller (UK) or Shimaden fp93 (Japan) with 4 patterns and 40 segments (ie. 4 x 10 segments or 2 x 20 segments)
Maximum heating rate	15°C / min
Furnace cavity	Mitsubishi (Japan) high quality grade 1800

	morgan polycrystalline alumina fiber
Thermocouple type	B
Gas inlet/outlet	1/4" hose barb with 1/4" BSPT (British Standard Pipe Thread)
Vacuum port	KF40
Positive pressure	Not to exceed 0.02 MPa / 150 torr / 3 psi
Temperature controller precision	+/- 1°C
Working environments	Air, N2, Ar, NO2, CO, CO2, He, Ne, rough vacuum, etc. (Hydrogen, up to 5%)
Compliance	ETL tested to UL and CSA standards (Optional), CE (Standard)
Warranty	1 year

Size Comparison

Nominal vs usable chamber size (DxWxH)	6x6x6"/4x5x5.5"	12x8x8"/10x7x7.5"	16x12x12"/14x11x11.5"
Chamber capacity (cu ft)	0.13	0.44	1.33
Installed heating element / Power	4 / 3 kW	8 / 7 kW	10 / 13 kW
Unit/shipping dimensions (DxWxH)	30x24x45"/33x30x51"	31x26x50"/37x31x55"	34x29x60"/40x36x70"
Unit/shipping weight (Lb)	430/510	620/720	880/1050

GCF1700 Maximum Working Temperatures

Working Environment	Temperature
Air	1700°C
Helium (He), Neon (Ne), Argon (Ar)	1650°C
Nitrogen (N2)	1500°C

Hydrocarbon Gas	1550°C
Hydrogen (H₂) up to 5%	1500°C
Rough vacuum	1400°C