

Specifications

Electrical requirements	208-240V, 50/60Hz, single phase
Heating element type	Kanthal (Sweden) A1 2.0 resistance coil wire
Min/max/constant temperature	Ambient/1200°C/1100°C
Temperature controller	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 1500 grade polycrystalline alumina fiber
Thermocouple type	K
Gas inlet/outlet	1/4" hose barb with 1/4" BSPT (British Standard Pipe Thread)
Positive pressure	Not to exceed 0.02 MPa / 150 torr / 3 psi
Temperature controller precision	+/- 1°C
Working environments	Air, N ₂ , Ar, NO ₂ , CO, CO ₂ , He, Ne, rough vacuum, etc. (Hydrogen, up to 5%)
Compliance	UL/CSA (optional), CE
Download	Product brochure

Size comparison

Chamber size (DxWxH)	12x8x5"	12x8x8"	16x12x12"	20x16x16"
Chamber capacity (cu ft)	0.28	0.44	1.33	2.96
Usable chamber space (DxWxH)	10x7x4"	10x7x7"	14x11x11"	18x15x15"
Maximum output	2.5 kW 12 amp	4 kW 19 amp	9 kW 41 amp	15 kW 69 amp
Shipping dimensions (LxWxH)	37x28x39"	38x26x44"	40x30x48"	49x44x61"
Net weight (Lb)	300	350	400	800
Shipping weight (Lb)	370	420	470	950

Standard Package

Part description	Quantity	Part image
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GCF1200 controlled atmosphere furnace	1 pc	
Type K thermocouple	1 pc	
Flow meter	1 pc	
Alumina cushion block	1 pc	
Furnace door block	1 pc	
Stainless steel tongs	1 pc	
Thermal gloves	1 pair	
Spare fuse	2 pcs	
USB/RS485 computer interface kit	1 set	
Water pump	1 pc	
Furnace operation manual	1 pc	
Shimaden fp93 temperature controller manual & software	1 pc	