



## Muffle Furnaces



**CF** series muffle furnaces feature the famous **Kanthal** (Sweden) spiral wire coils embedded in **Mitsubishi** (Japan) high quality alumina fiber insulation. A double walled steel internal housing helps minimize heat loss to exterior surface.

Furnace operation is controlled by **Shimaden** (Japan) 40-segment digital controller with built-in RS485 digital communications port and USB adaptor, allowing the user to connect to a PC for remote control and monitoring of the furnace. You can also save or export test results.

### Features

- Microprocessor based self-tuning PID control provides optimum thermal process with minimal overshoot.
- Built-in ammeter and dual voltmeters for easy monitoring and troubleshooting.
- Built-in computer interface.
- Long life type K thermocouple.
- CE compliant

Model	CF1100	CF1200	CF1400	GCF 1600	GCF 1700	GCF 1800
Electrical Requirements	AC 110V 60Hz 700 watts	208-240V, 50/60Hz, single phase				
Heating Element Type	Resistant coil wire	Kanthal (Sweden) resistant coil wire	Silicon carbide (SiC)	Molybdenum silicon (MoSi <sub>2</sub> , diameter 7mm)		Kanthal 1900 grade Molybdenum silicon (MoSi <sub>2</sub> )
Min./Constant Temp.	Ambient			300°C/800°C		
Max./Constant Temp.	1050°C/950°C	1200°C/1100°C	1400°C/1300°C	1600°C/1500°C	1700°C/1600°C	1800°C/1700°C
Refractory Lining	Mitsubishi (Japan) 1500 grade alumina fiber		Mitsubishi (Japan) 1600 grade alumina fiber	Mitsubishi (Japan) 1700 grade alumina fiber	Mitsubishi (Japan) 1800 grade alumina fiber	Mitsubishi (Japan) 1900 grade alumina fiber
Thermocouple Type	K		S	B		
Temp. Controller	UDIAN 30-segment, single PID	Shimaden fp93 (Japan) with 4 programs & 4 segments				
Temp. Accuracy	+/-1°C					
Max. Heating Rate	30°C / min			15°C / min		

