

High Performance Muffle Furnace

FP110C/310C/510C

Operating temp. range

100~1150°C

Temp. control accuracy

±1.5°C

Internal capacity

1.5L
FP110C

7.5L
FP310C

11.3L
FP510C

열선이 내장된 다용도 멀티 전기로

- 오염을 방지하는 전선이 내장된 고품질 세라믹 전기로 본체
- 프로그램 가능
- 고온 정밀도를 가능하게 하는 고정밀 컨트롤러.
- 디지털 온도 설정 및 설정 표시.
- 안전 기능으로는 자가 진단 기능, 보정 오프 세트, 키 잠금 기능, 누전 차단기, 자동 과열 방지 장치 및 독립 과열 방지 장치 포함
- 긴 수명을 가진 R-thermocouple 온도 센서로 설계
- 배기 포트 장착
- 배기 시스템, N₂ 가스 로딩 장치 (유량계 포함), 온도 출력 단자, 외부 통신 단자 (RS232C) 및 외부 통신 어댑터와 같은 시스템 업그레이드를 위한 다양한 옵션 품목.



Specifications

Model	FP110C	FP310C	FP510C
Operating temp. range	100~1150°C		
Temp. control accuracy	±1.5°C (at 1150°C)		
Temp. fluctuation	±1.0°C (at 1150°C)		
Temp. distribution accuracy	±4.0°C (at 1150°C)		
Temp. gradient	14°C (at 1150°C)		
Max. temp. reaching time	Approx. 80 min.		Approx. 80 min.
Exterior material	Cold rolled steel plate with baked-on melamine resin finish		
Interior material	Ceramic fiber		
Sensor	R-thermocouple		
Heater	Iron-chrome wire		
	1.1kW	2.4kW	3.25kW
Exhaust port	18 mm I.D. (upper part)		
Cooling fan	Axial flow fan		
Temp. controller	PID control by microprocessor		
Temp. setting/display method	Digital setting by ▲/▼ keys / Digital display		
Overheat protection	Integrated controller		
Overheat protection set	Digital setting		
Operation function	Fixed temp., Program (6 modes 30 seg.×1, 15 seg.×2, 10 seg.×3)		
Additional functions	Deviation correction, Power outage compensation, Key lock		
Timer	1min~99hr 59min and 999hr 50min digital setting, Auto start, quick auto stop		
Safety device	Self diagnosis circuit (Abnormal temp. Sensor, Auto overheat protection), Overheat protector, Overcurrent ELB, Key lock		
Internal dimensions (mm)	W100×D150×H100	W200×D250×H150	W300×D250×H150
External dimensions (mm)	W346×D405×517	W446×D504×H567	W507×D504×H627
Internal capacity	1.5L	7.5L	11.3L
Power source (50/60Hz)	AC220V 5A	AC220V 11.5A	AC220V 15A
Weight	Approx. 24kg	Approx. 42kg	Approx. 48kg
Accessories	Exhaust port cap, fuse, furnace floor plate		
Optional	Stand	ON30C	ON61C
	Others	Exhaust device (AC220V), sample tray, N ₂ introduction device (with flow meter), Recorder, Indicator lamp (Stand-by / running / malfunction), External communication (RS485), Temp. output terminal (4-20mA), Output terminal for alarm device, Time up output terminal	



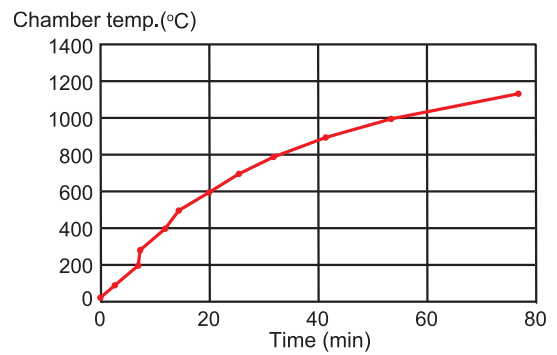
Control Panel



Independent overheat protector (standard configuration)



Temperature Rising Curve (FP310C)



Interior



Built-in heater, optimal insulation structure improves heat insulation performance and temp. distribution accuracy.

Optional item

Exhaust Unit



전기로의 온도 상승으로 인해 생성된 가스는 빠르게 배기

Power source of exhaust device :
AC115V 0.27A
Single phase AC220V 0.15A

Dimensions (mm)

