

Standard Electric Furnace



FO110C/210C/310C/410C/510C/610C/710C/810C

Operating temp. range 100~1150°C

Temp. distribution accuracy ±2°C (at 1150°C)

Internal capacity FO110C 1.5L FO210C 3.75L FO310C 7.5L FO410C 9L FO510C 11.3L FO610C 17.5L FO710C 23.6L FO810C 30L

Programmable muffle furnace with varying internal capacity.

- High precision temperature control.
- Easy up/down key setting.
- Digital display of setting temperature and indicator value.
- Digital setting of overheat protection.
- R thermocouple temp. sensor for long service life.
- Equipped with exhaust port.
- Safety device includes self-diagnosis functions and over-current electric leakage breaker.
- Option for system upgrade such as air exhaust device, sample tray, N₂ introduction device with flow meter and temp. output terminal.



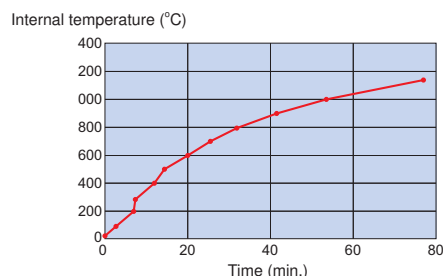
Specifications

Model	FO110C	FO210C	FO310C	FO410C	FO510C	FO610C	FO710C	FO810C
Operating temp. range	100~1150°C							
Temp. control accuracy	±2°C (at 1150°C)							
Max. temp. reaching time	Approx. 60min.		Approx. 70min.		Approx. 80min.			
Exterior material	Cold rolled steel plate with baked-on melamine resin finish							
Interior material	Ceramic fiber							
Sensor	R-thermocouple							
Heater	Iron-chrome wire							
	1kW	1.5kW	2kW	2.2kW	2.5kW	3kW	3.5kW	4kW
Exhaust port	18 mm I.D. (upper part)							
Cooling Fan Type	Axial fan motor							
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~99hr59min 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(WxDxHmm)	100×150×100	100×250×150	200×250×150	200×300×150	300×250×150	250×350×200	270×350×250	300×400×250
External dimensions(WxDxHmm)	346×405×517	346×505×567	446×505×567	446×554×567	507×504×627	507×604×677	507×605×727	507×655×727
Internal capacity	1.5L	3.75L	7.5L	9L	11.3L	17.5L	23.6L	30L
Power source (50/60Hz)	AC220V							
	5A	7.5A	9.5A	10.5A	12A	15A	18A	20A
Weight	Approx. 24kg	Approx. 30kg	Approx. 37kg	Approx. 38kg	Approx. 44kg	Approx. 52kg	Approx. 58kg	Approx. 62kg
Accessories	Exhaust port cap 1 pc.							
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



Temperature Rising Curve (FO310C)





Interior



Adoption of reasonable insulation structure increased thermal insulation characteristics and temperature distribution accuracy.

Optional items

Sample tray



Optional items

Product code	Description
214097	Exhaust unit, 220V
281125*	Communication adapter (RS485 / RS232C conversion)
	Recorder
281301*	Time up output terminal
	Indicator lamp (stand-by/running/malfunction)
	Temp. output terminal (4-20mA)
	Output terminal for alarm device
281303*	N ₂ gas inlet system with flow meter
281310	Sample tray

* Customized from factory. Please specify when ordering main unit

Exhaust unit



Gas generated due to the increase of temperature in the furnace will be quickly exhausted.

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

Temperature Output Terminal



- Record and monitor internal temperature
- Temperature output: 4-20mA
- Time up output

Dimensions (mm)

