Standard Muffle Furnace

FO Series

Operating temp. range	100~1150°C

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

Internal capacity	1.5L (FO100CR/110CR)	3.75L (FO200CR/210CR)	7.5L (FO300CR/310CR)	9L (FO410CR)	11.3L (FO510CR)	17.5L (FO610CR)	23.6L (FO710CR)	30L (FO810CR)

- Wide selection of space-saving compact units with maximum inner capacity
- Easy to use controller
- Excellent heat tightness with a firmly sealed chamber door
- High temperature accuracy at ±2.0°C
- Program operation of maximum of 6 patterns: 30 steps x 1 pattern, 15 steps x 2 patterns or 10 steps x 3 patterns
- Safety features include self-diagnostic functions, calibration off-set, lock function, auto-recovery after power failure, earth leakage breaker and automatic overheat prevention device
- Selectable options include exhaust system unit, N_2 gas loading device (with flow meter), temperature output terminal, time up / alarm output terminal and sample tray
- Upgraded with long life R-thermocouple sensors
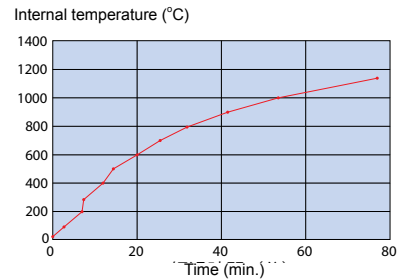- Designed with communication port

1.5L FO110CR **9L** FO410CR **11.3L** FO510CR **30L** FO810CR

■ Specifications

Model	FO100CR/110CR	FO200CR/210CR	FO300CR/310CR	FO410CR	FO510CR	FO610CR	FO710CR	FO810CR
Operating temp. range	100~1150°C							
Temp. control accuracy	±2°C (at 1150°C)							
Max. temp. reaching time	~60min.			~70min.		~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	ø20mm (top)							
Cooling Fan Type	Axial fan motor							
Temp. controller	PID control by microprocessor							
Temp. setting/display method	Digital setting by ▲/▼ keys / Digital display							
Operation function	Fixed temperature, quick auto stop, auto stop, auto start, program (maximum 6 patterns: 30 steps x 1 pattern, 15 steps x 2 patterns or 10 steps x 3 patterns)							
Additional function	Calibration offset, power failure compensation, key lock							
Timer	1 min. to 99 Hrs. 59 min. and 100 Hrs. to 999 Hrs.							
Safety Device	Self diagnostic (memory error, heater disconnection, sensor error, SSR short curcuit), Electric leakage breaker, Overheat prevention device							
Internal dimensions(WxDxHmm)	100×150×100	100×250×150	200×250×150	200×300×150	250×300×150	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)	AC115V / 220V			AC220V single phase				
	10A / 5A	14.5A / 7.5A	19A / 9.5A	10.5A	12A	15A	18A	20A
	no plug, round terminal	no plug, round terminal	no plug, round terminal	no plug, round terminal	no plug, round terminal	no plug, round terminal	no plug, round terminal	no plug, round terminal
Weight	~24kg	~30kg	~37kg	~38kg	~44kg	~52kg	~58kg	~62kg
Included accessory	Exhaust port cap 1 pc.							

Control Panel

■ Optional items

Product code	Description
*214096	Exhaust unit, 115V
*214097	Exhaust unit, 220V
*281301	Time up output terminal
*281303	N_2 gas inlet system with flow meter
WBV4A	Wi-Fi Network Bridge
281310	Sample tray

Please specify when ordering main unit.

Sample tray

Exhaust unit

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

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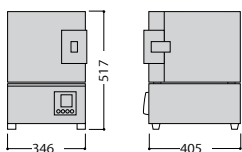AC115V 0.27A
Single phase AC220V 0.15A

Aluminum flexible duct (*not included*)
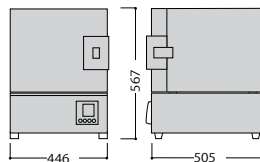Length 1.5m / Diameter 50mm

Temperature Rising Curve (FO300CR)

Internal temperature (°C)

Time (min.)

Interior

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

Temperature Output Terminal

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

Dimensions (mm)

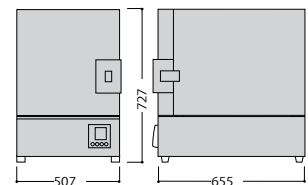
FO100CR/110CR
(1.5L)
517 / 346 / 405

FO300CR/310CR
(7.5L)
567 / 446 / 505

FO610CR
(17.5L)
677 / 507 / 604

FO810CR
(30L)
727 / 507 / 655