

New! Standard Muffle Furnace



FO101CR/111CR/201CR/211CR/301CR/311CR/411CR/511CR/611CR/711CR/811CR*

* replacement models of FO100CR/110CR/200CR/210CR/300CR/310CR/410CR/510CR/610CR/710CR/810CR

Operating temp. range 100~1150°C

Temp. control accuracy $\pm 2^\circ\text{C}$ (at 1150°C)

Internal capacity 1.5L (FO101CR/111CR) 3.75L (FO201CR/211CR) 7.5L (FO301CR/311CR) 9L (FO411CR) 11.3L (FO511CR) 17.5L (FO611CR) 23.6L (FO711CR) 30L (FO811CR)

- 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 $\pm 2.0^\circ\text{C}$
- 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 offset, lock function, auto-recovery after power failure, earth leakage breaker and automatic overheat prevention device
- Selectable options include exhaust unit, N_2 gas loading device (with flow meter), temperature output terminal, time up / alarm output terminal and sample tray
- Equipped with R-thermocouple sensors
- Designed with communication port



1.5L
FO101CR



7.5L
FO301CR



17.5L
FO611CR

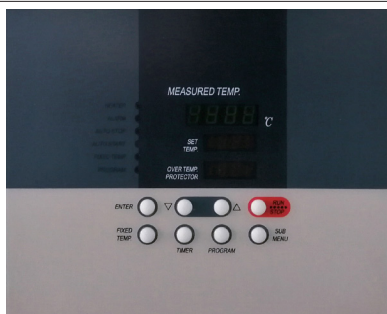


30L
FO811CR

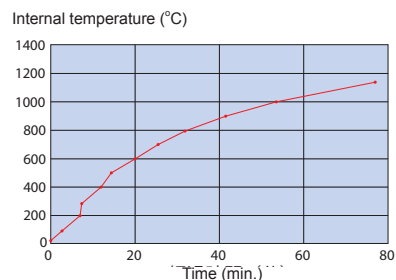
Specifications

Model	FO101CR/111CR	FO201CR/211CR	FO301CR/311CR	FO411CR	FO511CR	FO611CR	FO711CR	FO811CR		
Operating temp. range	100~1150°C									
Temp. adjustment accuracy	±2°C (at 1150°C)									
Max. temp. reaching time @LT:1150°C (@RT:850°C)	~60min. (~40min)		~70min. (~50min)		~80min. (~50min)	~80min. (~65min)	~80min. (~55min)	~80min. (~60min)		
Exterior material	Steel, Melamine, epoxy composite resin coating, stainless steel, SUS304									
Interior material	Ceramic fiber									
Sensor	R-thermocouple (W sensor)									
Heater	Iron-chrome wire (Cantal AF)									
	1.1kW	1.65kW	1.5kW	2.2kW	2.0kW	2.2kW	2.5kW	3kW	3.5kW	4.0kW
Exhaust port	ø20mm (top)									
Cooling Fan Type	Axial fan motor									
Temp. control system	PID control by VS6 controller									
Temp. setting/display method	Digital setting by ▲/▼ keys / Digital display									
Operation function	Fixed temperature operation, timer operation (auto stop, auto start), program operation (maximum 6 patterns: 30 steps x 1 pattern, 15 steps x 2 patterns or 10 steps x 3 patterns)									
Additional function	Lock function, auto recovery after power failure, calibration offset									
Timer	1 min. to 99 Hrs. 59 min. and 100 Hrs. to 999 Hrs.									
Safety Device	Self diagnostic (memory error, sensor error), earth leakage/circuit breaker, overheat prevention device									
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)	AC115V / 220V				AC220V single phase					
	10A / 5A	14.5A / 7.5A	19A / 9.5A	10.5A	12A	14A	16.5A	18.5A		
	<i>no plug, round terminal</i>	<i>no plug, round terminal</i>	<i>no plug, round terminal</i>	<i>no plug, round terminal</i>	<i>no plug, round terminal</i>	<i>no plug, round terminal</i>	<i>no plug, round terminal</i>	<i>no plug, round terminal</i>		
Weight	~24kg	~30kg	~37kg	~38kg	~44kg	~52kg	~58kg	~62kg		
Included accessory	Exhaust port cap 1 pc.									

Control Panel



Temperature Rising Curve (FO301CR)



Optional items

Product code	Description
*214096	Exhaust unit, 115V
*214097	Exhaust unit, 220V
*281301	Time up output terminal
*Contact Customer Service for part number 281310	N ₂ gas inlet system w/ flow meter
B011908001	Sample tray
	Exhaust opening

* Please specify when ordering main unit.

Interior



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

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

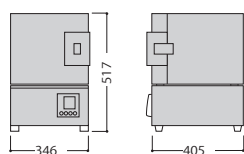
Aluminum flexible duct
Length 1.5m / Diameter 50mm

Temperature Output Terminal

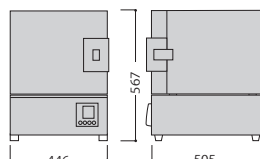


- Record and monitor internal temperature
- Temperature output: 4-20mA
- Time up output

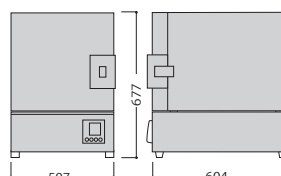
Dimensions (mm)



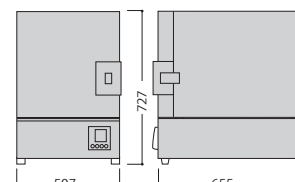
FO101CR/111CR
(1.5L)



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(7.5L)



FO611CR
(17.5L)



FO811CR
(30L)