



Yamato Standard Muffle Furnace

For information and to Order
 Contact Us At:
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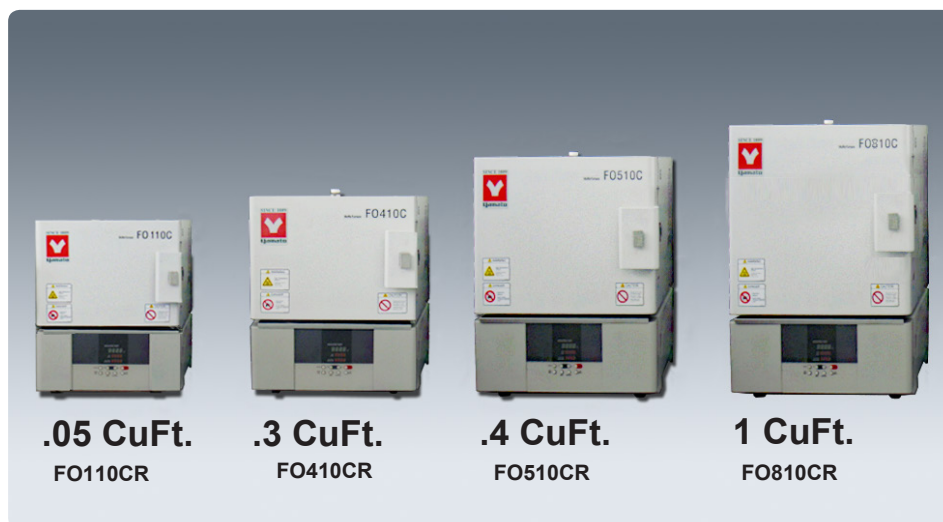
Muffle Furnace FO Series

Operating temp. range 100~1150°C

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

Internal capacity .05 CuFt. .3 CuFt. .4 CuFt. .3 CuFt. 04 CuFt. 06 CuFt. .83 CuFt. 1 CuFt.
 FO110CR/110CR FO200CR/210CR FO300CR/310C FO410CR FO510CR FO610CR FO710CR 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, N₂ 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



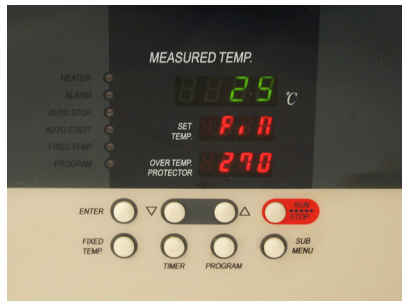
Contact Us For Discounted Prices

Yamato Muffle Furnace Specs:

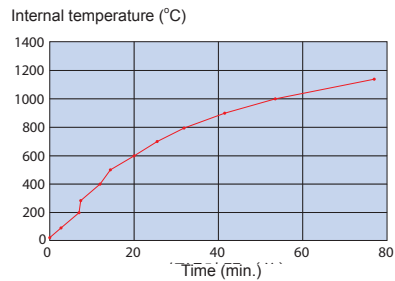
Model	FO100CR/110CR	FO200CR/210CR	FO300CR/310CR	FO410CR	FO510CR	FO610CR	FO710CR	FO810CR
Operating temp. range	100~1150°C							
Temp. control accuracy	±2°C (at 1150°C)							
Max. temp. reaching time	~60min.		~70min.		~80min.			
Exterior material	Cold rolled steel plate with baked-on melamine resin finish							
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	.7" (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, lock, RS485 communication interface							
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 circuit), Electric leakage breaker, Overheat prevention device							
Internal dimensions(WxDxH)	3.9" x 5.9" x 3.9"	3.9" x 9.8" x 5.9"	7.8" x 9.8" x 5.9"	7.8" x 11.8" x 5.9"	11.8" x 9.8" x 5.9"	9.8" x 13.7" x 7.8"	10.6" x 13.7" x 9.8"	11.8" x 15.7" x 9.8"
External dimensions(WxDxH)	13.6" x 15.9" x 20.3"	13.6" x 19.9" x 22.3"	17.5" x 19.9" x 22.3"	17.5" x 21.8" x 22.3"	20" x 19.8" x 24.6"	20" x 23.7" x 26.6"	20" x 23.8" x 28.6"	20" x 25.7" x 28.6"
Internal capacity	.05 Cubic Ft.	.13 Cubic Ft.	.26 Cubic Ft.	.3 Cubic Ft.	.4 Cubic Ft.	.6 Cubic Ft.	.83 Cubic Ft.	1 Cubic Ft.
Power source * (50/60Hz)	AC115V/220V				AC220V single phase			
	10A / 5A	14.5A / 7.5A	19A / 9.5A	10.5A	12A	15A	18A	20A
Weight	53 Lbs	66 Lbs	82 Lbs	84 Lbs	97 Lbs	115 Lbs	128 Lbs	137 Lbs
Accessories	Exhaust port cap 1 pc.							

*All models do not come with a plug (round terminal) except for FO100CR

Control Panel



Temperature Rising Curve (FO300CR)



Optional items

Product code	Description
214096	Exhaust unit, 115V
214097	Exhaust unit, 220V
*281125	Communication adapter (RS485 / RS232C conversion)
*281301	Time up output terminal
*281303	N ₂ gas inlet system with flow meter
281310	Sample tray

* 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

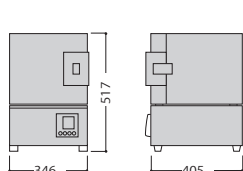
Aluminum flexible duct (*not included*)
Length 1.5m / Diameter 50mm

Temperature Output Terminal

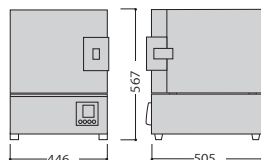


- Record and monitor internal temperature
- Temperature output: 4-20mA
- Time up output

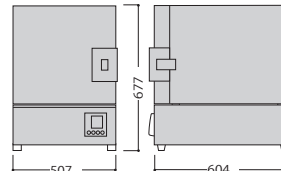
Dimensions (mm)



FO100CR/110CR
(1.5L)



FO300CR/310CR
(7.5L)



FO610CR
(17.5L)



FO810CR
(30L)

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