

High Performance Muffle FurnaceFP313

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High Performance Muffle Furnace FP313

Item Code : 214147

Model : FP313

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High Performance Muffle Furnace (FP313)

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Product Summary

RCF-free (alumina fiber) that complies with RCF regulations is used for the furnace chamber.

Features of High Performance Muffle Furnace (FP313)

Features

RCF-free, safe and secure

Features

Since the heater does not appear, it is ideal for microanalysis and contamination prevention.

Features

Equipped with program operation

Features

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Uses R-thermocouple

Features

Equipped with a variety of options

Specifications

Specifications

Item Code	214147
Model	FP313
Operating temp. range	100~1,150°C
Temp. control accuracy	±1.0°C (at 1150°C)
Temp. fluctuation	2.0°C (at 1150°C)
Temp. distribution	±4.0°C (at 1150°C)
Temp. gradient	14°C (at 1150°C)
Max. temp. reaching time	Approx. 90 min.
Exterior material	Chrome-free electro-galvanized steel plate, Chemical proof painting
Interior material	Alumina fiber
Sensor	R-thermocouple
Heater	Iron-chrome wire (Pyromax) 2.4kW
Exhaust port	ø20mm (top)
Cooling fan	19/16W (50/60Hz)
Temp. controller	PID Z control
Temp. and timer setting	Digital setting by ▲/▼ keys
Temp. display	Setting temperature: Orange 5-digit LED digital display (resolution: 1°C), Temperature display: Green 4-digit LED digital display (resolution: 1°C)
Timer	Time : 1 minute and 99 hours 59 minutes / 1 min 24 hour setting
Operation function	Fixed temperature, Quick auto stop, Auto start, Auto stop, Program (Maximum 99 steps, 99 patterns, Repeat operation)
Additional function	Power on and Operation Time Integrating Function(up to 65,535 hours); calendar timer (24hours) Calibration Offset; Power Consumption, Total CO2 Emission, and Heater operating Output; Power Recovery Mode; Save and Access of Operator's Setting Information;
Heater circuit control	Triac with zero cross control
Safety device	Self-diagnosis Functions (Temp. Sensor Failure Detection, TRIAC Short Circuit, Heater Line Disconnection, Main Relay Failure Detection, Automatic Overheat Prevention) Key Lock Function, Independent Overheat Prevention Device, ELB
Accessories	Exhaust port cap, fuse, furnace floor plate
Internal dimensions (W×D×H mm)	200×250×150mm

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Power Source

Single phase AC200V 12.5A
Plug is not attached, Electric code length is 2m

Weight

43kg

Maintenance and warranty

Conditions: temperature and humidity: 23 deg.C+/-5 deg.C, 65%RH+/-20% (no load)

External dimensions do not include protrusions.

Optional items



NO IMAGE

Alumina hearth plate for FP302 / 312 (OFP70)

NO IMAGE

Operating signal output terminal (OFP62)

NO IMAGE

N2 gas inlet system (with flow meter) (OFP26)



Same series products



High Performance Muffle Furnace (FP312)



High Performance Muffle Furnace (FP412)



High Performance Muffle Furnace (FP413)

