



# **DARSUN SCIENTIFIC**

## Muffle Furnace 1800°C

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### Product Overview

1800°C box-type muffle furnace electric furnace adopts high-quality silicon molybdenum rods and the latest alumina ceramic fiber furnace material insulation material, with stable performance and the highest continuous use temperature can reach 1750 . Ceramic heat treatment is its ideal destination. This product can be applied to annealing, normalizing and tempering processes. In addition, the wide range of temperatures allows it to be used in metal heat treatment as well. The internal size (capacity) is optional from 1L to 36L. Internationally advanced intelligent temperature controller, PID control, 30-stage temperature time program, accuracy  $\pm 1C$ , and has over-temperature protection and broken couple protection. Welcome to consult and discuss cooperation.

### Product Features

1. Maximum temperature 1800°C
2. 400\*300\*300mm (36L) internal dimensions
3. Intelligent temperature controller, PID control, 30-stage temperature and time program
4. Alumina ceramic fiber furnace chamber
5. High-quality silicon molybdenum rod heating element, 3-sided heating
6. Customization supported
7. Temperature RT~1800°C
8. 30-stage temperature time program, PID control, accuracy  $\pm 1C$ , over-temperature protection, broken couple protection
9. Type B thermocouple
10. Heating rate  $\leq 20C/min$
11. High-quality silicon molybdenum rod heating element
12. 1~36L optional
13. Foam ceramic insulation material up to 1900C level
14. Touch screen optional



## Darsun Scientific Muffle Furnace 1800°C Specifications

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MODEL	DS-MF 1800°C		
Furnace Shell Structure	Double-layer carbon steel plate shell, surface sprayed with heat-resistant plastic powder coating to ensure the outer surface temperature is =60°C		
Chamber Materials	State of art 1800°C~1900°C ceramic material insulation		
Furnace Door	Side opening door, bottom loading door, or door lifting type		
Max. Temperature	1800°C	1800°C	1800°C
Continuous Working Temperature	1650°C	700°C	1750°C
Heating Element	Standard version MoSi2 heating element	Upgraded version MoSi2 heating element	Ultra type MoSi2 heating element
Thermocouple Type	B Type	B Type	B Type
Rated Voltage & Power	AC 240V/380V/415V/480V 50/60Hz; Power depends on chamber size		
Chamber Size	100x100x100mm, 200x150x150mm, 300x200x200mm, 400x300x300mm, 500x500x500mm, 600x600x600mm, 800x600x600mm, 900x600x600mm (bigger sizes available depending on continuous working temperature version)		
Heating rate	0-20°C/min, Suggested to use 10°C/min under 1400°C, 1400°C-1600°C: 5°C/min, >1600°C: 1-2°C/min		
Temperature Precision	±1°C		
Temperature Controller	30 segments temperature-time programs; PID automatic control and auto-tuning function; Upper temperature limit and broken thermo couple detection		

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