

## Box-Type Electric Lab Muffle Furnace



Side Door

### Product Introduce:

EI-F1200 Box Type Electric Lab Muffle Furnace is adopted high quality electric resistance wire as heating element; with dual shell structure and intelligent auto-control temperature system, SCR control, phase shifting trigger. Equipped with intelligent cooling System between the dual shells, when the surface temperature reach to 50°C, the cooling fan will be start working automatically, so it can ensure the surface temperature is low; using constant current soft-start control, to extend the life of heating elements.

### Main Function & Features:

1. Furnace chamber adopted high quality alumina polycrystalline fiber, which used Japanese technology (vac-sorb forming alumina polycrystalline fiber) with good insulation and durability properties, high tensile strength and no miscellaneous ball; So this furnace much more energy saving than the furnace use common fiber materials.
2. With high quality electric resistance wire 0Cr27Al7Mo2 as heating elements, maximum temperature can reach 1200 centigrade.
3. Three heating sides, thermal field more uniformity.
4. Side open type furnace door, open the door power will be cut off automatically.
5. Reserved 485 convert interface can be connected with PC through software. It has remote control, real time tracking, history recorder, and output report function.
6. Over temperature will alarm and cut off power supply automatically, also with leakage protect function, operation more safety.

**Main Applications:**

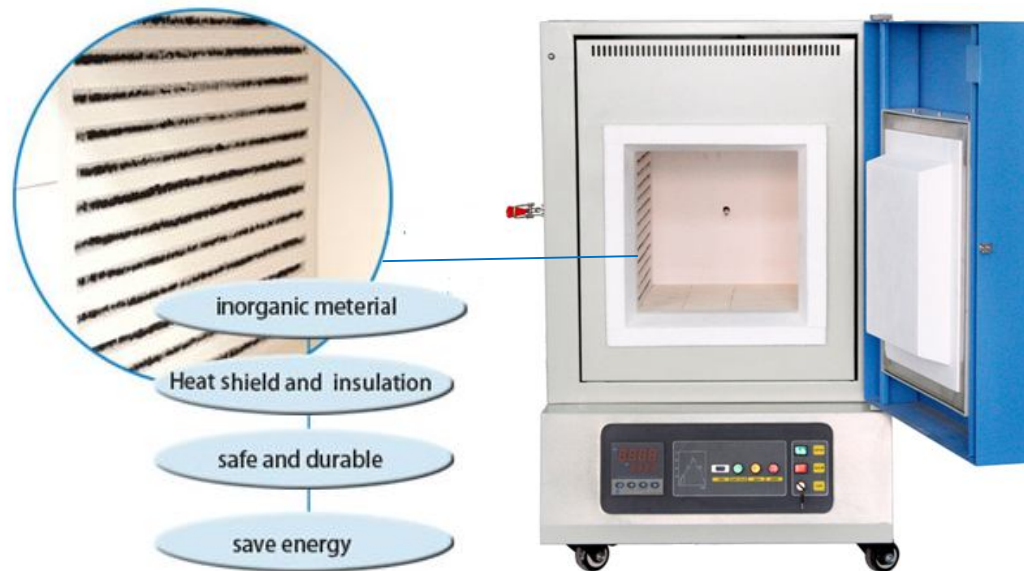
Universities, research institutes, industrial and mining enterprises to do the powder sintering, sintering of ceramics, high temperature experiments, material handling, quality inspection purpose.

**Technical Parameter:**

Model	EI-F1200A	EI-F1200B	EI-F1200C
Chamber Size (D x W x H)mm	300 x 200 x 120	300 x 200 x 200	400 x 300 x 300
Overall Size (D x W x H)mm	450 x 600 x 600	470 x 600 x 700	640 x 800 x 1050
Power Supply	Single Phase AC220V, 50Hz		Three Phase AC415V, 50Hz
Rated Power	3kW	4kW	7kW
Weight	60kg	80kg	190kg
Furnace Chamber	High pure polycrystalline alumina fibers, well thermal insulation and energy conservation		
Heating Element	0Cr27A17Mo2 alloy wire		
Temperature Measuring Element	N mode thermocouple		
Temperature Control Mode	The temperature control system uses artificial intelligence technology, with PID control, self-tuning function, 30 the segment heating and cooling program		
Working Temperature	≤1150°C		
Maximum Temperature	1200°C		
Maximum Temperature Rising Rate	<30°C/min		
Recommend Temperature Rising Rate	10°C/min		
Constant Temperature Accuracy	±1°C		
Accessories Included	Crucible tongs and Oven Glove each one piece.		
Optional Accessories	Computer Control Software and Paperless Recorder, etc.		

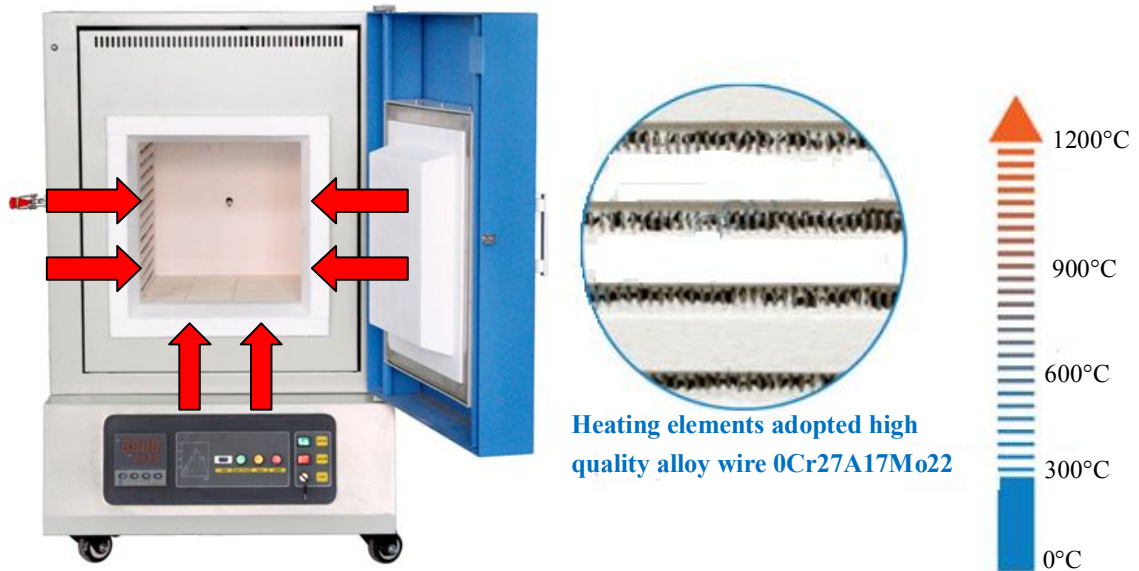
## 01 High quality chamber

Furnace chamber adopted imported alumina polycrystalline fiber materials, effective insulation and energy-saving; Heating elements used high quality alloy wire 0Cr27A17Mo2



## 02 High quality alloy wire

Three sides or more surface of the embedded resistance wire heating, temperature field uniformity



### 03 Connect with computer

Reserved 485 converter interface, can remote control of single or multiple furnaces through software and internet, real-time tracking, history recorder, output statements; can install the paperless recording device for data storage and output and so on.



### 04 Paperless Recorder

To input or output the data, you can install the Paperless Recorder.

