

Box-Type Electric Lab Furnace



Side Door

Panel Overview:



1. Present value PV: indicates the real temperature measured by thermocouple inside the furnace chamber.
2. Set value SV: indicate the temperature set in the heating program by user.
3. Set key :
 - a. Set up program
 - b. Access parameter menu;
 - c. Confirm changing

4. Data shift key, Auto-tune activate key.
5. RUN / HOLD key:
 - a. Run or hold program
 - b. Decrease value
6. Stop key:
 - a. Stop program
 - b. Increase value key
7. Status indicator: indicates the working status of each module in the controller.

Summary Features:

- Capacity: 3.6L, 15L, 36L
- Max. temperature: 1350°C
- PID automatic control and auto-tune function
- 50 programmable segments for precise control.
- Built in protection for over-heating and broken thermocouple.
- Large digital control panel for easy operation.
- $\pm 1^{\circ}\text{C}$ Constant temperature accuracy.
- Heating element: Imported high-quality silicon carbide

Product Introduce:

EI-F1400 Box-Type Electric Lab Furnace is adopted imported silicon carbon rod as heated element; it adopts the dual shell structure and intelligent auto-control temperature system, SCR control, phase shifting trigger. The chamber is adopted the 1600 type imported polycrystalline alumina fiber. Equipped with cooling system between the dual shell, which can rise and cool swiftly; using constant current soft-start control, to extend the life of heating elements.

Main Function & Features:

1. Furnace chamber adopter imported alumina polycrystalline fiber, with good insulation and durability properties, and adopted the imported silicon carbide rod as heating elements, greatly improving the service life.
2. With unique furnace design, durable to use, does not collapse.
3. Side open type furnace door, open the door power outages.
4. 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.
5. Over-temperature alarm and power failure, leakage protection, safe and reliable operation.

Main Applications:

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

Specifications:

Model	EI-F1400A	EI-F1400B	EI-F1400C
Internal dimension (D * W * H)mm	160 * 150 * 150	300 * 250 * 250	400 * 300 * 300
Overall Size (D * W * H)mm	520 * 500 * 750	630 * 650 * 880	670 * 780 * 1050
Power Supply	220V, 50Hz		415V, 50Hz
Rated Power	3kW	6kW	8kW
Weight	80kg	140kg	190kg
Furnace Chamber	Imported high purity alumina polycrystalline fibers curing furnace, good insulation properties		
Heating Element	Imported high-quality silicon carbide		
Temperature Measuring Element	Model thermocouple		
Temperature Control Mode	The temperature control system uses artificial intelligence technology, with PID control, self-tuning function, 50 the heating and cooling program		
Working Temperature	≤1300°C		
Maximum Temperature	1350°C		
Recommend Heating Rate	10°C/min		
Constant Temperature Accuracy	±1°C		
Standard Accessories:	Door Brick, Crucible tongs, Oven Gloves each one piece		
Optional Accessories	Furnace Hobs, A Variety of Corundum Crucible, Computer Control Software and Paperless Recorder, etc.		