

Muffle furnace MX45-13TP

Technical parameters

I. Sintering performance

1. Furnace chamber dimensions: 300×500×300mm
2. Short-term maximum temperature: 1300°C
3. Maximum long-term temperature: 1250°C
4. Temperature stability: $\pm 1^{\circ}\text{C}$
5. Heating rate: 1-30°C/minute can be freely set.
6. Furnace lining material: Polycrystalline silicon alumina ceramic fiber material is used, featuring vacuum forming and no powder shedding at high temperatures. Employing vacuum forming technology and using high quality silicon carbide rods distributed on both sides of the furnace, the process ensures good temperature uniformity and facilitates replace.



II. Heating Control Performance

1. Power supply voltage: 380V
2. Heating power: 15KW
3. Heating element: High-quality silicon carbide rod
4. Control method: Employs Xiamen Yudian microcomputer PID temperature controller with PID parameter self-tuning function, manual/automatic operation. It features interference-free switching, over-temperature alarm, and overvoltage/overload/leakage protection. It can be programmed for 30 time periods, with automatic temperature rise and automatic... The automatic stop function meets continuous temperature control requirements. Electronic components are manufactured using Delixi products, ensuring long-term stability. The instrument is highly reliable; once the instrument program is set, simply press the run button and the rest of the work will be completed automatically.
5. Display accuracy: $\pm 1^{\circ}\text{C}$
6. The instrument has a password setting function, and parameter settings are password controlled.
7. Overshoot temperature: $< 1-3^{\circ}\text{C}$
8. Display window: Dual display of measured temperature and set temperature, and bar display of heating power.

III. Other performance characteristics

1. Energy-saving performance: Lightweight, heats up quickly, saves more than 50% of energy, saving time and effort.
2. Control Features: The control system features a modular structure, long-life design for key equipment components, and a simple, reliable, and stable process. It has good qualitative properties and high accuracy.
3. Integrated structure with a patented "full door" design. Double-layered outer shell, air circulation insulation, and low surface temperature.
4. The outer shell is made of high-quality cold-rolled steel plate, and the surface is rust-removed and electrostatically powder-coated.