



BOTO Group Ltd.

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Product description

I Equipment photo



The picture is for reference only. The final design drawing shall prevail according to customer requirements.
(castors are optional)

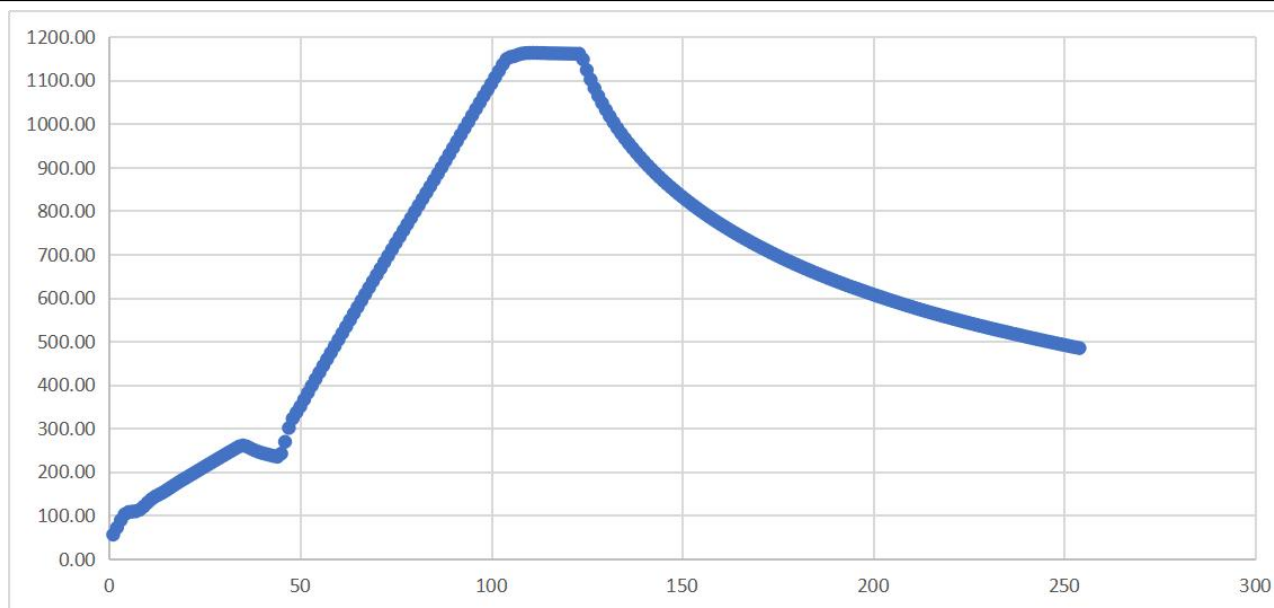
II Product description

The laboratory muffle furnace can reach a temperature of 1200°C. It adopts high-quality carbon steel shell and beautiful powder electrostatic spraying process, which has good high temperature resistance and corrosion resistance. The furnace adopts 1500# high-aluminum ceramic fiberboard, wet vacuum, one-piece molding, with good heat resistance and corrosion resistance, and long service life. The heating element adopts embedded resistance wire for three-sided heating. The temperature control system adopts precise Yudian PID controller, which can be programmed in 30 sections and has high temperature control accuracy. It is equipped with protection systems such as door opening power off, leakage protection, broken couple protection, and over-temperature alarm. The degree of automation is high, and various indicators have reached advanced levels. This muffle furnace is an ideal tool for heat treatment, reaction research, sintering process and ceramic firing. It can be used for grain and crude fiber ash testing, heat treatment, ceramic and glass sealing firing, ignition test, and heat treatment of steel parts in laboratories and industries.

III Main technical features

- The maximum temperature is 1200°C, and the continuous use temperature is below 1100°C;
- The furnace door opens on the side;
- Adopts high-quality double-layer carbon steel shell, and the surface is electrostatically sprayed with two-color high-quality epoxy powder;
- Square furnace chamber, ceramic fiber liner, CNC fine carving;
- HRE resistance wire heating on three sides, heating rate: 0°C-25°C/min adjustable;
- PID temperature controller, temperature adjustable range RT-1200°C, programmable 30 sections;
- With RS485 communication interface, it can be connected to industrial computer;
- 7" touch screen control, heating program curve real-time display, data can be downloaded (optional +600USD);
- Power off when opening the door, over-temperature alarm, leakage protection (power off when opening the door optional +120USD);
- Adopt French Schneider electrical components, long service life;
- Long-life N-type thermocouple.

IV Main technical parameters



(Set 1160°C, heating, constant temperature, cooling curve reference)

This is the heating and cooling curve of the 1200°C standard muffle furnace, for reference only, the actual parameters required by the customer shall prevail.

Safety measures

Over temperature, broken circuit alarm; leakage and over temperature protection.

V Detailed technical parameters	
Model	BT-M1200-10
Furnace type	Standard laboratory muffle furnace, side door
Furnace size	200*180*300mm(W*H*D) , Furnace volume 10L
Composition	Furnace shell, ceramic furnace, temperature control system, electrical components
Furnace body	Carbon steel shell, environmentally friendly electrostatic powder spraying, anti-corrosion and anti-rust
Furnace door	Manual, side door
Power supply	2.5 KW; AC220V; 50Hz
Number of phases	Single-phase electricity
Operating temperature	Maximum temperature 1200°C; Recommended continuous operating temperature RT-1100°C.
Thermostat	Automatic tuning function; Programmable 30 segments; Temperature accuracy +/- 1°C.
Furnace material	1500# high-aluminum ceramic fiber raw material, wet vacuum filtration, one-piece furnace;
Electrical components	Main electrical components are Schneider or Siemens;
Heating element	Embedded HRE alloy resistance wire, three-sided heating, uniform temperature field.
Heating rate	Maximum heating rate: 20°C/min; Recommended heating rate: 15°C/min.
Optional (extra cost)	Paperless recorder; Touch screen; Furnace bottom casters; Alumina crucible; Chimney device
After-sales service	1. Consumables such as heating elements, crucibles, quartz tubes, etc. are not covered by the warranty; 2. Damage caused by corrosive gases and acidic gases is not covered by the warranty; 3. Except for damage caused by external factors or improper use by customers, our company bears the cost of accessories and shipping costs caused by repairs.
Notes	1. After a period of use, the furnace may have small cracks, which is a normal phenomenon and does not affect the use. It can be repaired with aluminum oxide coating; 2. Do not inject flammable, explosive or highly corrosive gases.
Packing details	Furnace body*1; Resistance wire (installed in place); N-type thermocouple (installed in place)*1; Crucible tongs*1; High-temperature gloves*1 pair;

	Equipment manual*1; Assembly drawing and wiring diagram*1.
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VI Main electrical components details

No.	Component name	Specifications and parameters	Quantity	Manufacturer
1	Molding furnace	Built-in furnace wire	1	Suzhou Hongen
2	Temperature control instrument	828P, 30-stage program setting	1	Xiamen Yudian
3	Thermocouple	N type	1	Chongqing Dazheng
4	Contactor	LCED42M7C	1	Schneider
5	Relay	RXM2LB2P7	1	Schneider
6	Air switch	16A/2P	1	Schneider

Reference photos



Factory real pictures display

1. Certificate



Some patents (nearly 100) and certificates



Some patents (nearly 100) and certificates



2. Shanghai Office



3. Factory environment area



Work shop



Our team

4. Spot exhibition hall area \ finished product area



5. BOTO GROUP Factory located in Hunan Yueyang Industrial Park.

The industrial park is constructed by Shanghai Boyi Test Equipment Co., LTD with a total investment of RMB 400 million. Mainly engaged in the research and development and manufacturing of the whole chain of laboratory equipment; It is located next to Yueyang section of Wuhan-Guangzhou high-speed railway, adjacent to Lotus Airport, and has very convenient transportation. The industrial park covers an area of 40 mu, consisting of a comprehensive office building and two standard factories, with a total construction area of nearly 20,000 square meters



Showroom 1



Showroom 2



6. On December 23, 2021, Li Aiwu, deputy Secretary of CPC Committee and Mayor of Yueyang city, Hunan Province, led the participants of Yueyang City industrial project construction mobile site meeting to inspect our company and observe the construction of industrial projects.



7. After the industrial park is fully put into operation, it can meet the annual output of new energy 3C semiconductor electronic circuit optical communication industry laboratory testing room environment simulation box 1200 sets; Another company has an independent sheet metal production and processing center, can independently undertake manufacturing business.



8. Standard size machine

225L High and Low Temperature Humidity
and Heat Alternating Test Chamber



225L

20L constant temperature
and humidity test chamber

Overlapping Temperature and humidity chamber



B-TH-432



Thermalshock test chamber

Double layer constant temperature test chamber

Salt spray test chamber



150L Vertical high and low

temperature test chamber



Ventilation type aging test chamber



Leaning tower ultraviolet aging

test chamber

9 .Large non-standard real pictures display area



3.6 m3 constant temperature
humidity laboratory



9 cubic meters low temperature room,
13 cubic meters high temperature room



Three comprehensive and
test chamber



10.Shipment



Self-produced and sold



No dealer link



Save you 30%



**Quality and after-sales are
recognized by customers**

