

## 1200°C STD series Industrial Box Furnace

1200°C industrial furnace (box type resistance furnace) mainly provides high temperature heat treatment environment for industrial, research institutes, factories and other industrial laboratories, and is applied to new materials such as metal materials, ceramic materials, nano materials, and semiconductor materials.

### Features

#### Furnace Shell

1. High quality Q235 low carbon steel, corrosion resistant.
2. Sturdy metal frame shell structure, low surface temperature, safe to use.
3. Side-opening door structure, the door opens to the right, easy to operate.

#### Chamber material

1. Multi-layer thermal insulation design.
2. Consisting of lightweight mullite ceramic material and high-quality alumina heat-insulating board backing.
3. Ceramic fiber insulation for fast heat-up and reduced energy consumption—rise time to 1100°C takes only 50 minutes.
4. Vertical heating elements evenly distributes on two sides of the chamber which give an ideal temperature uniformity.

#### Heating System

1. High quality HRE alloy resistance wire heaters, safe and solidly embedded in the furnace surface, free thermal radiation heating in the furnace cavity, energy saving and efficient.
2. Three-side heating (left and right sides and the bottom of the furnace), so as to realize the good uniformity in the furnace.
3. Silicon carbide base plate covers and protects the bottom heating element.

#### Temperature control panel

1. PID with SSR control mode, accurate temperature control.
2. Intelligent microcomputer PID controller can program 30 segments.
3. With open door power failure safety protection switch.

#### Safety precautions

1. Overheating & Broken thermocouple protection.
2. Leakage circuit breaker.
3. Automatic power off when furnace door opens (optional function).
4. Over-temperature protection and alarm allow for operation without attendant(s).



## Parameters

<b>Model</b>	<b>STD-45-12</b>	<b>STD-64-12</b>	<b>STD-80-12</b>	<b>STD-96-12</b>	<b>STD-100-12</b>	<b>STD-100-12</b>
<b>Chamber size(WxLxH)mm</b>	<b>300×500×300</b>	<b>400×400×400</b>	<b>400×500×400</b>	<b>400×600×400</b>	<b>400×530×460</b>	<b>450×530×590</b>
<b>Chamber volume</b>	<b>45L</b>	<b>64L</b>	<b>80L</b>	<b>96L</b>	<b>100L</b>	<b>100L</b>
<b>Power supply</b>	<b>380V/12KW</b>	<b>380V/15KW</b>	<b>380V/15KW</b>	<b>380V/18KW</b>	<b>380V/18KW</b>	<b>380V/18KW</b>
<b>Model</b>	<b>STD-200-12</b>	<b>STD-300-12</b>	<b>STD-450-12</b>	<b>STD-660-12</b>	<b>STD-1000-12</b>	<b>STD-1000-12</b>
<b>Chamber size(WxLxH)mm</b>	<b>500×530×720</b>	<b>550×700×780</b>	<b>600×750×1000</b>	<b>600×1100×1000</b>	<b>800×1000×1250</b>	<b>900×1200×1400</b>
<b>Chamber volume</b>	<b>200L</b>	<b>300L</b>	<b>450L</b>	<b>660L</b>	<b>1000L</b>	<b>1000L</b>
<b>Power supply</b>	<b>380V/27KW</b>	<b>380V/45KW</b>	<b>380V/50KW</b>	<b>380V/60KW</b>	<b>380V/80KW</b>	<b>380V/80KW</b>
<b>Max temperature</b>	<b>1200°C</b>					
<b>Working temperature</b>	<b>1100°C</b>					
<b>Temperature precision</b>	<b>±1°C</b>					
<b>Thermocouple</b>	<b>N type (Temperature measurement range : 0-1300°C)</b>					
<b>Heating rate</b>	<b>≤ 25°C/min ( suggest 15°C/min for longer life using of furnace )</b>					
<b>Optional accessories</b>	<b>1.Paperless recorder</b> <b>2.Stainless steel exhaust chimney</b> <b>3.Alumina crucible</b> <b>4.Electric lifting structure</b>					

## Standard configuration

Product accessories



Furnace body



Temperature controller



3-meter power line



Thermocouple



Furnace operation manual  
temperature controller manual



Crucible Tong



Heat-Resistant gloves