

# Furnace



## Technical Specifications

Model	1200-8L-220VAC
Chamber size	200x200x200mm (Width * Height * Depth)
Max. temperature	1700 °C (< 2 hours)
Max. Working temperature	0-1600 °C
Temperature controlling LED Screen	<ul style="list-style-type: none"> <li>● PID automatic control via SCR (Silicon Controlled Rectifier) power control with phase angle fired, current limiting resistor.</li> <li>● 51 programmable segments for precise control of heating rate, cooling rate and dwell time.</li> <li>● Built in PID Auto-Tune function with overheating &amp; broken thermocouple broken protection.</li> <li>● Over temperature protection and alarm allows for operation without attendant.</li> </ul>
Temperature accuracy	± 1 °C
Temperature uniformity	± 5°C
Heating rate	0-20 °C /min



Thermocouple	B type
Heating element	High purity MoSi2 heating element
Furnace chamber	Three layers of ceramic fiber insulation materials
Furnace structure	Double layer steel casing with dual cooling fan, surface temperature below 60°C
Working voltage	220V, 50HZ, 1 phases
Rated power	7 kW
Warranty	<ul style="list-style-type: none"> <li>● One year limited warranty with life time support. (Consumable parts such as heating elements and crucibles are not covered by the warranty, please order the replacement at related products)</li> <li>● <i>ATTENTION: Any damages caused by the use of corrosive and acidic gases are not under the coverage of One Year Limited Warranty.</i></li> </ul>
<b>Application Notes</b>	
Using Attentions	<ul style="list-style-type: none"> <li>● Cooling rate shall also not exceed 10 °C /min. at above 800 °C only</li> <li>● Toxic or explosive gases are not recommended for use with this furnace without necessary safety controls and supervision.</li> <li>● Small cracks may appear on the surface of the refractory ceramics over extended use. This is a normal occurrence and the cracks may be repaired with alumina coating.</li> <li>● Refractory door block must be inserted before closing door.</li> </ul>