

## QUOTATION

Quote No.:

Quote Date: 2019-02-19

### I . Furnace Appearance




H-12N-36 Muffle Furnace

### II . Technical Specifications

Chamber size	300x300x400mm (Width * Height * Depth)
Max. temperature	1200 °C (<2hour)
Working temperature	800-1100 °C continuously
Temperature controlling	<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>● 30 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 over 120 mm @ 1100°C ± 3°C over 80 mm @ 1100°C
Heating rate	0-20 °C /min



Thermocouple	K type (Pt-Rh to Pt) with 99.7% purity Alumina tube
Heating element	Fe-Cr-Al-Mo wire, four side heating, more temperature uniformity
	
Furnace Chamber	<b>Two layers of ceramic fiber insulation materials</b> <ul style="list-style-type: none"> <li>● First layer: 1430°C ceramic fiber board, density 400kgs/m<sup>3</sup>.</li> <li>● Second layer: 1260°C ceramic fiber board, density 320kgs/m<sup>3</sup>.</li> </ul>
Furnace structure	Double layer steel casing with dual cooling fan, surface temperature below 60°C
Furnace door	<ul style="list-style-type: none"> <li>● Front open to aside</li> <li>● Power cutting off when furnace door open</li> </ul>
Outer dimension	About 735x665x1065mm
Package size	840X770X1330mm
Working voltage	380V 3 phases
Rated power	10KW
Weight	Net Weight: about 177kgs Gross Weight: about 223kgs

### III. Price and Other Terms

Unit price	-
Payment terms	T/T in advance
Delivery time	20 days after receiving customer's payment slip.
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>● <b>ATTENTION: Any damages caused by the use of corrosive and acidic gases are not under the coverage of One Year Limited Warranty.</b></li> </ul>
Certifications	CE

### IV. Application Notes

Using Attentions	<ul style="list-style-type: none"> <li>● Cooling rate shall also not exceed 10 °C /min.</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>
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