









UL-Standard 1100°C Large Muffle Furnace (16x16x16", 64 L) with Digital Controller & Venting Port - KSL-1200X-L-UL



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SPECIFICATIONS:

Structure	<ul style="list-style-type: none"> Thermal efficient ceramic (high purity alumina fiber) insulation surrounding the chamber provides maximum energy efficiency. Heating elements on all three sides of the interior chamber for fast heating and enhanced temperature uniformity. Heavy duty double layer structure with the cooling fan to keep furnace exteriors safe to touch. Built-in vent port removes undesirable contaminants and moisture, extends the life span of the heating elements and furnace. 1/4" Barbed Gas Inlet/Outlet installed on the back of the furnace An interlock is installed to cut off power as soon as the door is open
Chamber Dimensions	<ul style="list-style-type: none"> 16" x 16" x 16" (D x H x W) (40x40x40 cm) Capacity : 64 liters/ 4100 cubic-inches/ 2.37 cubic ft Observation window of quartz (1/2" - 2" diameter) is available upon request 
Power	<ul style="list-style-type: none"> 7.5KW Power cord supplied without plug
Current Rating	34A
Voltage	<p>AC 208 - 240 Single phase, 50/50Hz</p> <p>Note : Power cable included, but without the plug. Please install a plug by your own or click link below picture to choose a plug according to your country or your lab requirement</p> 
Operating Temp Range	 <ul style="list-style-type: none"> 100-1100°C-Max. continuously 1200°C-Max. under an hour Note: for using =>1000°C, furnace block must be placed front chamber, see picture below.
Stability at 1000°C	+/- 1°C
Uniformity at 1000°C	+/- 5°C
Max. Heating Rate	20°C/ min
Temperature Controller	 <ul style="list-style-type: none"> FA-YD518P-AG temperature controller is included. Proportional–integral–derivative control (PID control) and auto-tune function 30 segments programmed with ramping, cooling and dwelling steps Built-in over-temperature alarm and thermocouple failure alarm +/- 1 °C temperature control accuracy Default DB9 PC communication port MET Certified
Temperature controller (optional)	 <ul style="list-style-type: none"> MTS02-Y Temperature control software kit (for YD518P series controllers) + 15" laptop package is available at the options bar. Click for the detail information about the MTS02-Y software kit. You may upgrade the temperature controller to the Eurotherm Temperature Controller which is fully compatible with LabVIEW. This package includes a Eurotherm programmer, a communication cable (RS485 - USB) and a software CD. Click the pic below to view the full spec of the Eurotherm temperature controller.
Laptop, software & WiFi Control(Optional)	<ul style="list-style-type: none"> Brand new laptop with Microsoft Window 10 and Microsoft Office 2013 (30 days free trial) for immediate use. Labview Based Temperature Control System (EQ-MTS01) enables user to edit temperature profile, manage heat-treatment recipe, record and plot data for MTI furnaces. A wireless remote control provides up to 300 meters operating range. Above features are available upon request at an extra cost (up to \$1,000). Please contact us for more information. Note: <i>The software is only compatible with MTI's Yudian Temperature Controller</i> 
Furnace Weight	275 LB
Product Dimension	660mm L x 645mm W x 945mm H
Shipping Dimensions	48" x 40" x 54" (DxHxW)
Shipping Weight	425 Lbs (shipping by pallet)

Warranty	<ul style="list-style-type: none"> • One-year limited warranty with lifetime support. • ATTENTION: Any damages caused by the use of corrosive and acidic gasses are not under the coverage of MTI One Year Limited Warranty.
Compliance	<ul style="list-style-type: none"> • CE Certified • All electric components (>24V) are UL / MET / CSA certified • The furnace is ready to pass TUV(UL61010) or CSA certification at extra cost.(pls click marks below to learn details) 
Application Notes	<ul style="list-style-type: none"> • For preserving the longevity of the furnace components, we recommend the heating rate not to exceed 10 °C /min. • The cooling rate shall also not exceed 10 °C /min. • This furnace lacks vacuum sealing, toxic or explosive gasses are not recommended for use with this furnace without necessary safety controls and supervision. • 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.  <ul style="list-style-type: none"> • click here to choose a crucible

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