
















UL Standard 1200°C Muffle Furnace (12x8x5", 7.2L) with Vent Port & Quartz Window (208-240VAC) - KSL-1200X-UL



KSL-1200X-UL is a CE certified and TUV(UL61010) or CSA Ready compact muffle furnace that offers 12" x 8" x 5" high purity fibrous alumina chamber, gas inlet and outlet ports and a 30 programmable segments temperature controller and UL / MET / CSA Certified electric components. It is the ideal muffle furnace for preparing samples with the temperatures up to 1100 °C in research and dental labs with maximum energy saving.

SPECIFICATIONS:

<p>Features</p>	<ul style="list-style-type: none"> High purity alumina fiber insulation surrounding the chamber provides maximum energy efficiency. Heavy duty double layer structure with a cooling fan to keep furnace exteriors safe to touch. Vent port (22mm) installed on top doubles as an outlet for gas flow. A 0.5" diameter observation window made of quartz glass allows the user to see inside the chamber. A gas fill tube is included which can be installed to replace the observation window A protection latch is installed to prevent accidental explosive damage An interlock is installed to cut off power as soon as the door is open The fibrous heating module is replaceable at low cost (click pic below right to order) Optional Al2O3 sample plate can also be ordered for this furnace. 
<p>Chamber Dimensions</p> 	<ul style="list-style-type: none"> 12" D x 8" W x 5H" (30 x 20 x 12 cm) 480 cubic-inch or 7.2 Liter Click picture to see details
<p>Power</p>	<p>3.5KW</p>
<p>Voltage</p>	<p>208 -240V Single Phase 50/60 Hz</p> <p>Note: Power cable included without a plug. Please install a plug by yourself or click link below picture to choose a plug according to your country or your lab requirement</p> 
<p>Maximum Working Temp</p>	<p>1200°C Max continuously</p>
<p>Stability at 1000 °C</p>	<p>+/- 0.5 °C</p>
<p>Uniformity at 1000 °C</p>	<p>+/- 2.0 °C</p>
<p>Max. Heating Rate</p>	<p>30°C/ min.</p>
<p>Temperature Controller</p> 	<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
<p>Laptop, software & WiFi Control(Optional)</p>	<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> 
<p>Temperature controller (optional)</p> 	<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 Eurotherm temperature controller.

Gas fill tube	<ul style="list-style-type: none"> Stainless steel tube (5 mm Dia) with flange is included which can be installed as a gas inlet port. Also, the hole can be used as feedthrough to calibrate temperature or measure the electrical property of a sample.   
Net Weight	110 Lbs
Shipping Weight	175 Lbs (shipping by pallet)
Dimensions	<ul style="list-style-type: none"> Furnace Dimensions: 20" x 21" x 21" (W x D x H) Shipping Dimensions: 36" x 36" x 40" (W x D x H)
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 (>30V) are UL / MET / CSA certified The furnace is ready to pass NRTL certification at extra cost. (pls click mark 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. Click the pic left to choose a crucible

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