UL-Standard 1200°C Muffle Furnace (12x12x12", 27 L) with Programmable Controller & Venting Port - KSL-1200X-M-UL

KSL-1200X-M-UL is a CE certified and TUV(UL61010) or CSA Ready compact muffle furnace that offers 12" x 12" x 12" 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:

Structure	• High purity fibrous alumina insulation for maximum energy saving. • Heating elements on all three sides of the interior chamber for fast heating and enhanced temperature uniformity. • Double layer steel structure with air cooling fan to keep furnace's exteriors safe to touch. • Safety interlock will automatic power off the furnace when the door is opened. • Built-in vent port (top) to remove undesirable contaminants and moisture and extend the lifespan of the heating elements and furnace.
Chamber Dimensions	• Size: 12" x 12" x 12" • Capacity: 27 liters (1728 cubic-inches) • Observation window of quartz (1/2" - 2" diameter) is available upon request •
Power	• 7.5 KW Max. at 10 °C/min to 1200 °C • 40 A Breaker (installed) • 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
Voltage	208~240V AC, Single phase, 50/60 Hz
Max Operating Temperature	1200 ºC continuously
Temperature Stability	±1 °C
Temperature Uniformity	• +/- 5 °C over 120 mm @ 1100°C • +/- 2 °C over 80 mm @ 1100 °C
Max. Heating Rate	10 °C/min
Temperature Controller	• 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)	• 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.
Laptop, software & WiFi Control(Optional)	• 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:** The software is only compatible with MTI's Yudian Temperature Controller
Gas Fitting & Exhaust	• One 1/4" barbed Gas Inlet installed on the back panel of the furnace. • One gas exhaust port is built on the top of the furnace casing.
Product Dimensions	24" x 34" x 24" (D x H x W)
Shipping Dimensions	48" x 40" x 49" (D x W x H)
Shipping Weight	350 lb

Warranty	• 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	• **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. **(please click marks below to learn details)**
Application Notes	• 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, and it is not recommended to use toxic or explosive gasses in 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. • You may order alumina crucible by click picture below. click here to choose a crucible