



An ambitious achievement in porcelain furnace technology through long years of research and development by experts.

master SERIES

A New Launch of Innovative Porcelain Furnace to the World!!
Designed in pursuit of an aesthetic and refreshing laboratory environment.



master 
Single Tray



master -11
3 Tray Robotic System

kdf u.s., inc.

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● Newly Developed Quartz Spiral Heater

The upgraded unit features excellent muffle heat distribution and steady heat rise. We measured the improvements of the firing quality and this unit will prevent metal frame twisting, allowing you to produce natural color shades, natural translucency and uniform glaze.



Quartz Spiral Heater



Implant Superstructure. Natural color shades, natural translucency and uniform glaze.



Excellent fit on a metal frame (with KDF Master-S)



Twisted metal frame due to degassing (with previous model)

● 3 Tray Robotic Firing System



The table and arm drives of robotic firing system are quiet and controlled by a precision stepping motor system that enables you to set-up 3 trays of firing objects at a time.

The 3 tray robotic firing system will automatically and sequentially place each tray into the muffle and remove it after firing is complete.

Place the loaded trays into the robotic chamber and just press the START button. The fully automatic firing system will do the rest, allowing the ceramist to attend to porcelain build ups and other lab duties.

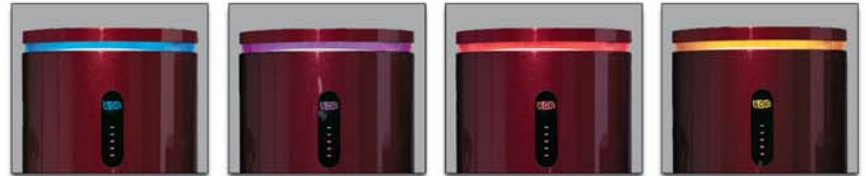
The robotic function is only available on the Master S-U.

● Firing Process LED Indicator

The firing process indicator is now installed on the front frame and enables you to see the firing process status with a glance from a distance.



● Illumination Lamp Design



The illuminated rim lamp is installed on top of the main body. Each different color is illuminated in sequential order so that "at-a-glance" you will know the muffle temperature and state. The rim lamp can also be programmed to present different colors for each of the firing processes.

● No Vibration

The table is secure. Since the muffle is the component moving up and down, no vibration is applied to the firing object.



● 250 Storable Firing Program Slots

● In-Muffle Rapid Cooling with Special Instructions

● Cooling Fan on Outer Unit Frame for Safety

● Large LCD Touch Panel

The large LCD touch panel enables you to easily see and touch operation controls.



Specifications	Master S (single tray)	Master S-U (3 trays)
Power Requirement	AC 120V +/- 10% 50/60Hz	
Power Consumption	1.1 kVA (vacuum pump power not included)	
Temperature Control	PID Control	
Inner Muffle Size	Ø 3.6 X 2.5'	
Robotic 3 Trays	None	Installed
Dimension	W12 X D19 X H22'	W22 X D19 X H22'
Net Weight	62 lbs	71 lbs

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