

## SERVICE

Spare parts can be ordered and/or if your oven needs to be serviced, call your local dental dealer or DLS Corporation at 1-800-514-7063.

## SPECIFICATIONS

Paktronics Automatic Control w/ Indicator - Stainless Steel Oven Shell  
Temp. Range 0-2000 degrees - Temperature Set Buzzer  
Oven size is 13.5"W x 17"H x 13"L - Chamber size is 5.5"W x 4"H x 6.5"L

### REPLACEMENT PARTS

Heating Elements, set  
Thermocouple  
Red Switch  
Buzzer  
Indicator  
Control Assembly  
Control Exchange



Triac Assembly  
Circuit Breaker  
Oven Trays  
Door Insulation  
Oven Insulation  
Oven Bricks  
Box with Packing

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# 500S Burnout Oven OPERATING MANUAL

*for the 500 Series Furnaces (110V and 220V)*



The warnings and instructions in this manual can not cover all possible conditions that can occur. It must be understood by the user that caution and common sense are factors which will keep this unit running trouble-free for years to come.

## INTRODUCTION

The Model 500 is an automatically controlled burnout oven with a 2000 degree fahrenheit temperature limit. The indicating model utilizes a full scale millivolt pyrometer that is completely independent from the automatic control. The Paktronics control is factory calibrated to approximately 1% of total scale reading. The indicator is adjusted to the control, during burn-in, at the factory. For minor adjustments on the indicator, contact your dealer or the DLS Company.

The low power consumption (7.5 amps for 110V) and solid state power control assures high reliability and efficiency. The Paktronics control carries a full year warranty. All other parts of the oven carry a 120 day warranty for defects in material and workmanship. All defective parts will be repaired or replaced at no charge.

Send in the enclosed card immediately to activate warranty.

## GETTING STARTED

### *with your Fully Automatic Burnout Oven*

Remove tile and packing from inside. Unwrap tile and replace in oven.

Plug oven into 115V, 50/60 Hz (for 115V)

Set temperature to 1200 degrees. Switch power and buzzer on. The red light on the control will come on. Heat soak at this temperature for one hour with door cracked open 1" to remove moisture in the oven. Close the door after one hour and then run for two hours at 1600 degrees to oxidize the elements for longer life.

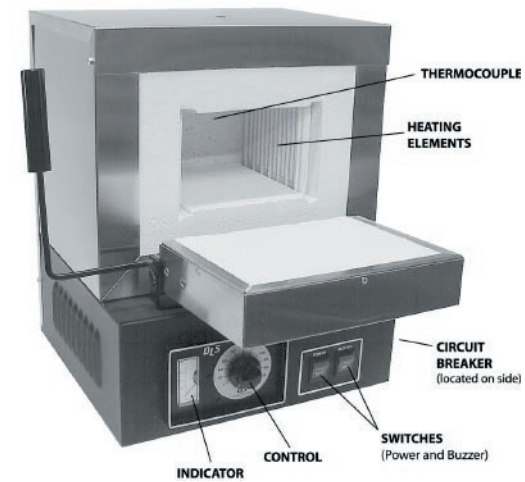
Your fully automatic control is easy to use. Just turn the center knob until the black arrow points to the desired temperature.

When the desired temperature is reached, your buzzer will sound. Switch the buzzer off. The red light will cycle on and off to indicate the control has reached and is holding the set temperature.

The Model 500 is not recommended for use above 1800 degrees. Using it above 1800 will shorten element life.

To prolong the life of your heating elements, allow the oven to cool off with the door closed.

## PARTS LIST



## POSSIBLE PROBLEMS AND REMEDIES

### **Make sure that...**

- The oven is plugged directly into a wall outlet (Using extension cords or surge protectors should only be used if rated 10+amps)
- The oven has a separate wall circuit (sharing with other equipment may possibly cause oven to operate on lower voltage which could cause oven to rise slower)

### **Oven has no power...**

- Check Power Switch
- Circuit breaker has popped

### **Light comes on, but no heat...**

- Element Plates might need replacing

### **Thermocouple Checking...**

- Turn control to 1500-1800 degrees with buzzer switch on; If buzzer buzzes continuously, then the thermocouple is open; Replace thermocouple.

### **Temperature goes past set point...**

- Control board could need repairing
- Triac assembly might need to be replaced