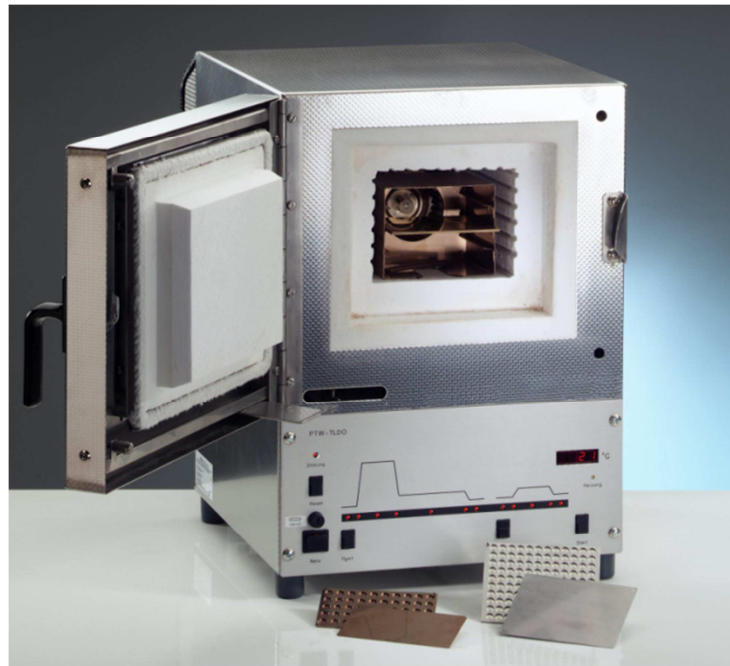


## TLD Oven TLDO



### **Easy to use and versatile**

The TLD annealing oven is controlled by a programmable microprocessor and has been specially developed for thermoluminescent dosimetry. TLD elements like chips, discs and rods can be annealed on stainless steel trays. Reproducible heating procedures for thermo-luminescent dosimeters are essential to maintain constant sensitivity and low background readings. Two predefined programs are used for the annealing of TLDs before irradiation and for preheating after irradiation and before reading by a TLD reader.

### **Reliable and accurate**

The TLD annealing oven contains a programmed heating element producing a temperature controlled hot air stream. A built-in fan circulates the hot air and ensures an equal temperature distribution throughout the oven volume. The thermal gradient problems often encountered with conventional ovens are avoided. The risk of errors arising from non-reproducible annealing is greatly reduced by the automatic programs. The programmed temperature cycles include heating and cooling phases.

### **Optional software**

The standard oven is supplied with an RS-232 interface. The optional THELDO software makes it possible to program any temperature profile based on both basic temperature cycles (max. 400°C). In case of safety circuit prevents heating to temperatures above 450°C.

## Technical Specifications

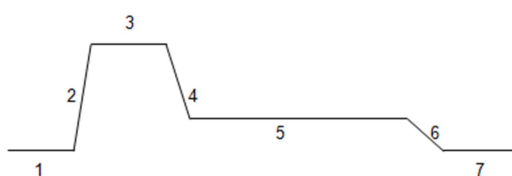
<b>Type</b>	TLDO
<b>Housing</b>	stainless steel
<b>Temperature range</b>	max 400°C
<b>Insulation</b>	ceramic fibre
<b>Capacity (one cycle)</b>	360 elements with standard trays
<b>Voltage</b>	115/230V; 50/60Hz
<b>Power consumption</b>	1 kW
<b>Chamber size</b>	10 mm x 16.5 mm x 15.5 mm (HxDxW)
<b>Dimensions</b>	440 mm x 420 mm x 330 mm (HxDxW)
<b>Weight</b>	ca. 29 Kg (net); 42 kg (gross)

## **Program description**

The standard oven includes two predefined temperature programs which are shown schematically on the front panel. During the temperature cycle LEDs indicate which program step is activated. The actual temperature is shown on a built-in digital display in °C. The temperature programs can be interrupted at any time.

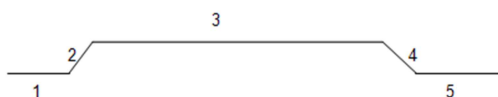
### Program No 1 (annealing):

- 1 Ready to start
- 2 Heating to 400°C
- 3 Holding at 400°C for 1 hour
- 4 Cooling to 100°C
- 5 Holding at 100°C for 2 hours
- 6 Cooling to room temperature
- 7 Finish



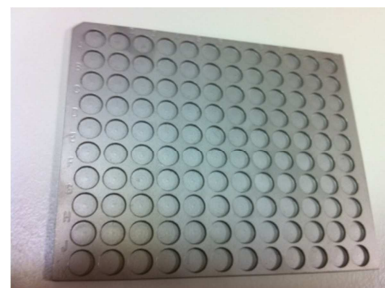
### Program No 2 (preheating):

- 1 Ready to start
- 2 Heating to 100°C
- 3 Holding at 100°C for 10 minutes
- 4 Cooling to room temperature
- 5 Finish

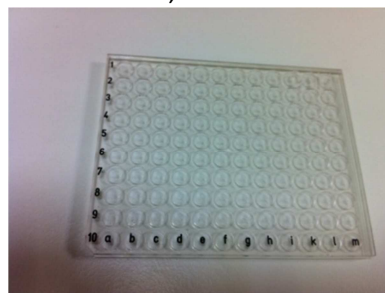


All information in this brochure is subject to technical changes without notice.

## Accessories



Annealing tray for 120 TLD elements, stainless steel



Storage dishes for 120 TLD elements



Vacuum Tweezers incl. Vacuum Pump (115-230V, 50-60Hz)

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