

Rapid Cooling Oven - TLD

General Information

These ovens are frequently used for annealing thermo-luminescent dosimeters (TLD) that have been used to measure exposure to ionising radiation.

The TLD ovens are designed to heat to 400 °C, cooling rapidly to ambient temperature using forced air cooling. This rapid cycling capability is also suitable for other small scale tempering and annealing applications.



Standard features

- 400 °C maximum operating temperature
- 3508P1 programmable controller providing automatic activation of the cooling blower
- Horizontal forced air circulation from rear mounted fan
- Excellent performance & reliability
- Stainless steel liner
- Stainless steel mesh shelves

Options (specify these at time of order)

- Independent over-temperature protection with digital setpoint & display
- Digital process timer
- A range of sophisticated digital controllers, multi-segment programmers and data loggers is available. These can be fitted with RS232, RS485 or Ethernet communications

Technical Specifications

TLD/3

Max temp (°C)	400
Min temp (°C)	50
Temp stability (°C)	±1
Temp uniformity (°C)	±5.0
Heat-up time (mins)	60
Heating/cooling rate (°C/min)	4*
Dimensions: Internal H x W x D (mm)	150 x 150 x 100
Dimensions: External H x W x D (mm)	530 x 370 x 500
Shelves fitted / accepted	2 / 2
Shelf loading each / total (kg)	1 / 2
Volume (litres)	3
Weight (kg)	26
Max power (W)	1000

Rapid Cooling Oven - TLD

TLD/28

Max temp (°C)	400
Min temp (°C)	50
Temp stability (°C)	±1
Temp uniformity (°C)	±5.0
Heat-up time (mins)	60
Heating/cooling rate (°C/mins)	4*
Dimensions: Internal H x W x D (mm)	305 x 305 x 305
Dimensions: External H x W x D (mm)	880 x 675 x 865
Shelves fitted / accepted	2 / 2
Shelf loading each / total (kg)	10 / 20
Volume (litres)	28
Weight (kg)	95
Max power (W)	2250

Please note:

- Uniformity is measured in an empty chamber with vents closed, after a stabilisation period
- Shelf loadings are based on evenly distributed weight
- *Based upon cooling an empty chamber
- The uniform volume is smaller than the total chamber volume
- Minimum operating temperature is ambient +50°C