

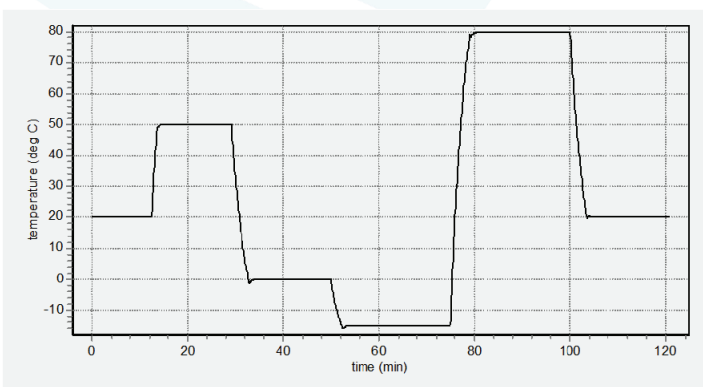
The TLC 50/PTI is a Peltier-based temperature-controlled cuvette holder for use in a PTI Spectrofluorometer.

- Rapid, precise control over a wide range of temperatures
- Fully automated through the PTI software package
- Calibrated using a NIST-traceable thermometer
- Ready to install, including rear utility panel
- Variable speed magnetic stirring
- Dry gas purge
- Thermometer probe input
- TC 125 Temperature Controller included

Specifications:

- Temperature Range* -40 °C to +105 °C
- Temperature Precision ± 0.02 °C
- Optical Port Dimensions 12 mm high x 10 mm wide
- Probes Accepted Series 400 or Series 500
- Cuvettes Accepted:
 - Standard Cuvette Size 12.5 mm x 12.5 mm O.D.
 - Cuvette Adapters Available 3x3 mm², 4x4 mm², 5x5 mm²
 - Microcuvette z Height 8.5 mm (special order 15 mm)

* Operation below the ambient dew point temperature requires dry gas purge. Operation below -10 °C requires dry gas purge and pre-cooled circulating fluid within 25 °C of the desired temperature. Operation below -25 °C requires the optional WJ-50 Windowed Jacket (see below), dry gas purge and pre-cooled circulating fluid.



Each unit is provided with a performance plot.

Components included in each purchase

- TLC 50 Cuvette Holder
- TC 125 Temperature Controller
- Performance Plot and Calibration Data
- Magnetic Stir Bar, Tubing, Quick Disconnect Fittings, Cables, Optical Slits, Opaque Lid
- Utility Access Panel (replaces panel on rear of PTI instrument)



TC 125 Temperature Controller

Optional Components available

- APOST-1 Accessory Post
APOST-1 is a plastic post and support clip that may be inserted in the top of the TLC 50 and used to hold tubes, probes and other hardware for special measurements.
- ADPT 3x3, ADPT 4x4, ADPT 5x5 Cuvette Adapters
Cuvette adapters permit the use of small square cuvettes.
- WJ-50 Windowed Jacket
The WJ-50 is a plastic cover for the TLC 50 that holds four 1-inch diameter fused silica windows, permitting the passage of light. The WJ-50 provides insulation and prevents condensation on the cuvette when operating at low temperatures.
- T-App Temperature Application Software
T-App permits external computer control of the TC 125 Temperature Controller, plotting cuvette holder or probe temperatures vs. time, and enabling programming for functions such as temperature ramping.
- BATH 100 Circulator
The BATH 100 Circulator is a submersible pump, bucket, tubing and fittings used to circulate water or other fluid through the Peltier heat exchanger to draw out heat when the temperature is lowered.

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