One-cuvette
Peltier

One-cuvette Peltier sample compartment

The one-cuvette Peltier-base sample compartment is for use with all of ISS spectrofluorometers. There are two versions on the one-cuvette sample compartment, the standard model which works from -40 °C to +105 °C and an extended range version that works from -40 °C to +150 °C The sample compartment comes with temperature controller, magnetic stir bar and tubing.

Specifications

Temperature
- Range of -40 °C to +105 °C standard version*
- Range of -40 °C to +150 °C extended version
- Precision of ± 0.02 °C

Optical Port Dimensions
- 12 mm x 10 mm
- Optical Axis 8.5 mm

Cuvettes
- 12.5 mm x 12.5 mm O.D. standard

*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. Temperatures may be controlled as low as -55 °C. Please contact ISS for information on achieving temperatures below -40 °C.

Accessories for Peltier

- Accessory post, a plastic post and support clip that may be inserted in the top of the sample compartment and used to hold tubes, probes and other hardware for special measurements.

- Cuvette adapters for 3x3, 4x4 and 5x5 cuvettes

- Windowed jacket, a plastic cover for the sample compartment that holds four 1-inch diameter fused silica windows, permitting the passage of light which provides insulation and prevents condensation on the cuvette when operating at low temperatures.

Key Features

- Rapid, precise control over an extended range of temperatures
- Fully automated through ISS Vinci software package
- Calibrated using a NIST-traceable thermometer
- Complete package with compartment floor and utilities brought to the front panel
- Variable speed magnetic stirring
- Dry gas purge
- Thermometer probe input