

Falcon MidIR Transmission Accessory



The Mid-IR Falcon accessory is recommended for qualitative and quantitative analysis of liquids where it is necessary to control the temperature of the sample.

Temperature range of the accessory is 5 °C to 105 °C with +/- 0.5% accuracy.

Heating and cooling is controlled by a built-in Peltier device providing for reproducible ramping and for reaching target temperatures quickly and reliably.

The system is driven by a Digital Temperature Controller – directly, or via PC.

A wide variety of window types and spacer pathlengths are available for this product. Windows offered cover mid-IR, NIR, and far-IR spectral regions and sample compositions from organic to aqueous.

A complete heatable transmission cell set-up for use with the Mid-IR Falcon accessory consists of two 32 mm x 3 mm size windows (drilled and undrilled), a spacer, the needle plate with Luer-Lok fittings, two gaskets and a proprietary cell mount. The full Falcon configuration requires the accessory base with cell holder, user selected windows, and one of the available temperature controllers. The Falcon accessory is compatible with most brands of FTIR spectrometers

Features

- Peltier temperature control from 5 °C to 105 °C
- Wide selection of windows for optimizing spectral range and sample compatibility
- Flexible pathlength to control sample absorbance
- Demountable cell design for optimal cleaning of difficult samples
- Available for most FTIR spectrometers

FALCON NIR TRANSMISSION ACCESSORY SPECIFICATIONS	
Temperature Control	Peltier (cooling and heating)
Temperature Range	5 °C to 105 °C
Accuracy	+/- 0.5%
Sensor Type	3 wire Pt RTD (low drift, high stability)
Temperature Controllers	
Digital	+/- 0.5% of set point
Digital PC	+/- 0.5% of set point, graphical setup, up to 10 ramps, USB interface
Input Voltage	90–264 V, auto setting, external power supply
Output Voltage	Variable 3–15 VDC/50 W max.
Dimensions	width 120 mm, depth 175 mm, height 90 mm (without FTIR baseplate and mount)
<i>Notes: Peltier device must be water cooled for proper operation – this is achieved by running cold tap water through the water jacket integrated into the accessory shell, or by the use of an external liquid circulator.</i>	

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