

Falcon UV-Vis

AT A GLANCE

- ▶ Fast and easy analysis of samples under precise Peltier temperature control
- ▶ Choice of cuvette and vial adapters
- ▶ Compatible with 1- to 10-mm pathlength cuvettes and vials
- ▶ Excellent thermal accuracy and precision
- ▶ Available for selected UV-Vis spectrophotometers



TEMPERATURE CONTROL
OPTIONS AVAILABLE

Falcon UV-Vis temperature control accessory is an excellent choice for analysis of liquid samples that require precise temperature control.

DESIGN

The Falcon is well suited for pharmaceutical, life science and general industrial applications. Temperature range of the accessory is 5 °C to 130 °C with +/- 0.5% accuracy. Heating and cooling is controlled by a built-in Peltier device. The Peltier element provides reproducible ramping across target temperatures quickly and reliably. The system is driven by a digital temperature control module – directly, or via PC. Individual sample holders are designed to accommodate standard 1- to 10-mm cuvettes (1-, 2- and 5-mm cuvettes require use of spacers) and 5-, 8- and 12-mm glass vials. Sample holders are pin positioned to ensure maximum reproducibility.

UV-VIS CONFIGURATION

The complete Falcon UV-Vis configuration requires the accessory base, vial or cuvette holder, and the digital temperature control module. The Falcon accessory is compatible with select UV-Vis spectrophotometers.



SPECIFICATIONS

Temperature Control	Peltier (cooling and heating)
Temperature Range	5 °C to 130 °C
Accuracy	+/- 0.5° up to 100 °C +/- 0.5% of set point > 100 °C
Sensor Type	3 wire Pt RTD (low drift, high stability)
Dimensions (W X D X H)	89 x 121 x 83 mm (without FTIR baseplate and mount)
Temperature Controller	Touch-panel display with USB interface. PIKE TempPRO software (sold separately) for PC control with unlimited ramps and automated data collection.
  	
Input	100-240 VAC, auto setting, external power supply
Output	16 VDC/150 W maximum

WATER COOLING

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.



Liquid Recirculator.

PART NUMBER	DESCRIPTION
110-60XXX	Falcon UV-Vis Base
	Note: Replace XXX with your spectrophotometer's Instrument Code listed in the back of the catalog.
	Temperature Controllers (must choose)
076-1510	Digital Temperature Control Module
007-0207	PIKE TempPRO Software
	Note: TempPRO software is needed to operate the Falcon using a PC.
	Sample Holders (must choose at least one)
111-3610	Vial Holder, 5 mm
111-3620	Vial Holder, 8 mm
111-3630	Vial Holder, 12 mm
111-3640	Cuvette Holder, 1 cm
	Notes: Spacers for short pathlength cuvettes are designed to work only with 1-cm cuvette holder.
	Options
162-0205	Glass Vials, 5 mm, 5 x 42 mm OD (200 ea.)
162-0208	Glass Vials, 8 mm, 8 x 43 mm OD (200 ea.)
162-0212	Glass Vials, 12 mm, 12 x 32 mm OD (200 ea.)
162-0255	Falcon Quartz Cuvette, 1 cm
162-1201	Spacer for 1-mm Cuvette
162-1202	Spacer for 2-mm Cuvette
162-1205	Spacer for 5-mm Cuvette
170-1100	Liquid Recirculator
	Note: Please see more cuvette options under Cuvettes, Cells, Vials and Holders.