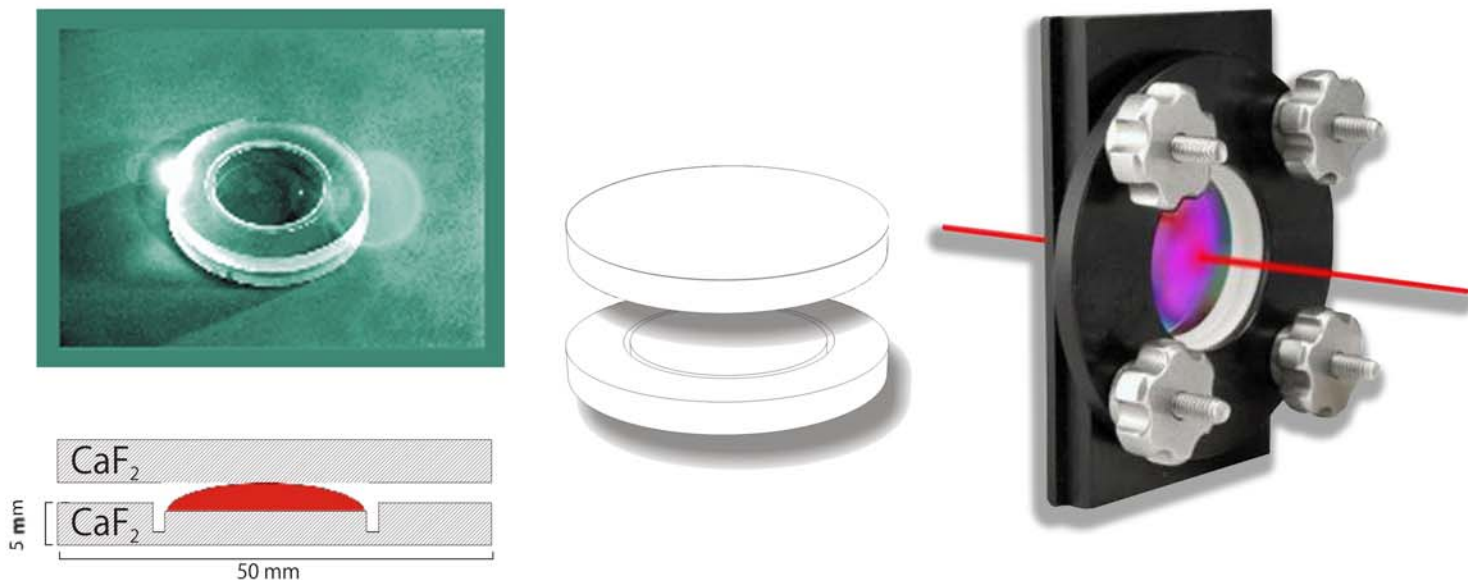


BioCell™

CaF₂ cells for IR/CD spectroscopy



Universally compatible with every FT-IR spectrometer!

The CaF₂ cell for IR/UV-CD spectroscopy is a unique, easy to use accessory for water based experiments that is universally compatible with all FT-IR Spectrometers.

The cell is formed from two optically clear plates: one of which is perfectly flat; and its partner which has a precisely formed recess surrounded by a slightly deeper groove. The recessed area holds the sample against the opposing flat plate, while the surrounding groove keeps the sample from becoming displaced and spreading out. This unique design ensures the sample is uniformly maintained in the path of the light for good data acquisition as well as preventing evaporation.

The simple design also makes the cell easy to disassemble and clean between measurements.

Benefits

- Specifically designed for FT-IR & CD/VCD spectroscopy of biological molecules
- Useable spectral range 67,000 - 1,000cm⁻¹
- ~6µm - ideal for aqueous solutions
~40µm - ~80µm - ideal for D₂O experiments
- Custom pathlengths available
- Small micro-liter volumes
- Size: 5 mm thickness x 50 mm diameter
- Two choices of temperature controllers

Applications

- Protein/Peptide studies in water
- FT-IR Microscopy of aqueous samples such as living cells
- Any other water-based experiment



17546 Bee Line Highway | Jupiter, Florida 33458 USA
info@btools.com | www.btools.com

Temperature Control Options

TempCon™

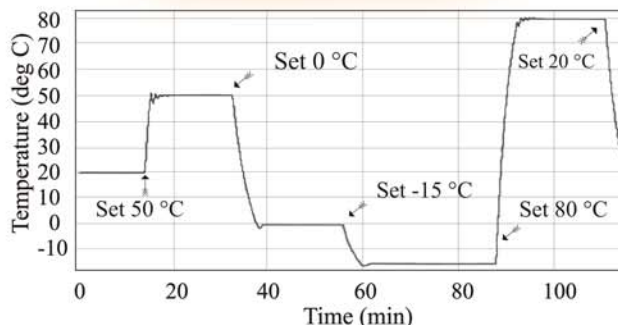
Peltier based temperature controller

TempCon™ temperature controller unit is designed for use in FT-IR spectrometers with two types of windows: large circular BioCell™ windows and rectangular windows. The controller can be controlled either manually or through computer interface.

The Ramp-Soak Control Interface allows for temperature studies that can be aligned with FT-IR scanning software and can be used in applications such as effect of temperature on protein conformation.

Features:

- Typical temperature range: -20.00 °C to +80.00 °C
- Temperature range achievable with other coolants -50.00 °C to +100.00 °C
- Variable temperature ramp programmable from 0 to 9995 °C / hour
- Soak time programmable from 0 to 1440 minutes
- Accepts both BioCell™ and long-rectangle type windows
- Custom made holders can be ordered for non-typical window designs



BioJack™

Jacketed cell holder

BioJack™ liquid cooling and heating jacket is designed for use with the BioCell™ windows for use in FT-IR spectrometers.



Features:

- Aluminum construction
- Threaded for tight seals
- High quality, low cost option for temperature control