

The Golden Gate High Temperature Top Plate



Specac's High Temperature Golden Gate™ ATR Accessory is a high performance single reflection monolithic diamond ATR product offer for spectroscopic sample analysis of samples up to 300°C.

This ATR product extends the capability of the standard Specac Golden Gate™ ATR Accessory and Heated Golden Gate™ ATR Accessory, to provide high-quality spectral data in the high temperature analysis of a broad range of materials including those that are abrasive, hard, reactive, or corrosive.

This product is especially well-suited for the spectroscopic analysis of reactions and processes that only occur at temperature.

The design of the High Temperature Golden Gate™ ATR couples the uniquely high thermal conductivity of diamond with a low thermal mass mount in which high power heaters are placed in close proximity to the diamond element to deliver both rapid and efficient, and gives a high degree of temperature control.

This facilitates rapid sample analysis. The Heated Golden Gate™ ATR is supplied with a temperature controller with digital readout to 1°C. Low voltage

heaters are used, and thermal fuses are fitted as standard for added safety. The controller complies with European CE regulations.

The High Temperature Golden Gate™ ATR top plate is compatible with both MkI and MkII Golden gate optical units which are Benchmark™ baseplate accessory.

ZnSe and KRS-5 lens options are available when ordering the Golden Gate™ ATR; KRS-5 gives a wider range of Mid-IR studies than ZnSe, but with reduced optical throughput.

Key Features and Benefits:

- Heatable to 300°C with 1°C control
- Low thermal mass ATR element
- Low voltage heaters
- Thermal safety fuses
- Robust diamond ATR element
- Programmable temperature control with RS232 compatibility
- Complies with CE regulations