



## REACTION CHAMBER FOR RAMAN SPECTROSCOPY

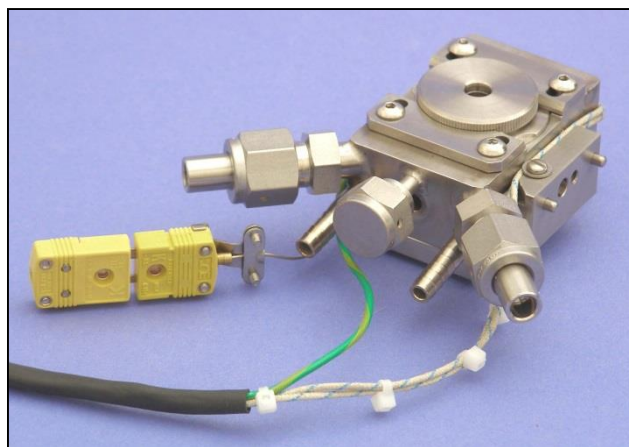
This High Temperature Reaction Chamber is an effective for Raman measurements of powders under controlled environmental conditions. Designed for operation from high vacuum to 25.8 ktorr and for temperatures up to 910°C (under vacuum), this reaction chamber is ideal for studying heterogeneous catalysis, gas-solid interactions, photochemical reactions, and oxidation mechanisms. Use in conjunction with a Raman microscope or spectrometer.

### APPLICATIONS

- ▶ Allows Raman measurements under controlled pressures and a wide range of temperatures.
- ▶ Use in conjunction with a Raman microscope or spectrometer.

### FEATURES

- ▶ Designed for operation from high vacuum ( $10^{-6}$  torr) to 25.8 ktorr
- ▶ Operable from ambient temperatures up to 910°C (under vacuum).
- ▶ 8-mm open aperture.
- ▶ Removable 13x2mm SiO<sub>2</sub> window.
- ▶ Three inlet/outlet ports provided for evacuating the cell and introducing gases.
- ▶ Made from chemically resistant 316 stainless steel.
- ▶ Optional Silcotek/Restek coatings available for greater corrosion resistance.
- ▶ Optional cooling cartridge available for moderate cooling or heating with a chiller or recirculator.
- ▶ Optional mounting available.



### INCLUDES

- ▶ Reaction Chamber.
- ▶ Low-voltage heating cartridge.
- ▶ K-type thermocouple.
- ▶ Window assembly with FKM o-rings and 13x2mm SiO<sub>2</sub> window

### ORDERING INFORMATION

CATALOG NO

Raman High Temperature Reaction Chamber, 24V ..... HVC-MRA-5

### OPTIONS & REPLACEMENT PARTS

Screen Set, two each of three mesh sizes .....	116-439
K-Type Thermocouple .....	008-144
13x2mm SiO <sub>2</sub> window .....	WAD-U22
13x2mm Al <sub>2</sub> O <sub>3</sub> window .....	WBD-U22
Cooling Cartridge .....	HVC-COL
Heater Assembly .....	HVC-HT4
Heater, 24V .....	HTRS-26
Temperature Controller, 24V output, 110V. Includes USB adapter .....	ATK-024-3
Temperature Controller, 24V output, 220/240V (CE marked). Includes USB adapter .....	ATK-024-4
Temperature Controller, USB to RS-485 Adapter .....	ATC-USB-485

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