



REACTION CHAMBER FOR RAMAN SPECTROSCOPY

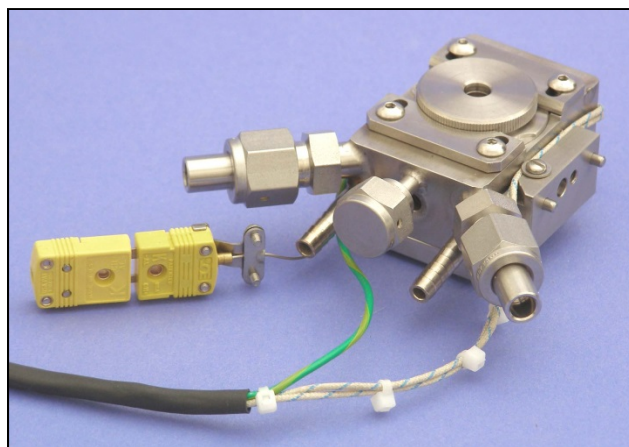
This High Temperature Reaction Chamber is an effective for Raman measurements of powders under controlled environmental conditions. Designed for operation from high vacuum to 25.8 ktorr and for temperatures up to 910°C (under vacuum), this reaction chamber is ideal for studying heterogeneous catalysis, 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 SiO₂ 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 Viton o-rings and 13x2mm SiO₂ 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 ₂ window	WAD-U22
13x2mm Al ₂ O ₃ 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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