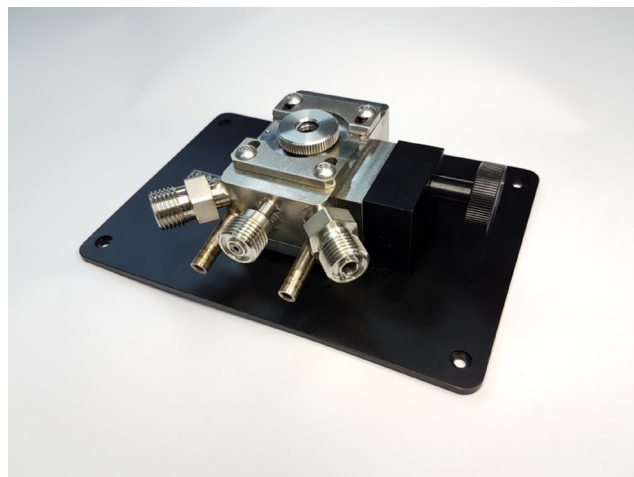


Raman Microscope Reaction Chamber

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.

Features & Benefits

- Control of reaction environment**
The chamber allows the temperature, pressure, and chemical composition of the reaction environment to be controlled.
- High vacuum capability**
The ability to produce a high vacuum (10^{-6} torr) ensures that all reaction products are removed before the next experiment.
- Ready baseplate integration**
Installation into the microscope is via a dedicated baseplate.
- Choice of gas flow configurations**
Reactants can be flowed either over the sample bed or through it by connecting different outlets.



Specifications

Raman scatter geometry	180° backscatter
Cell material	316 Stainless Steel
	<i>Optical silcotek coating available</i>
Seal materials	FKM
Optical materials	Flat 13 mm dia. x2 mm thick SiO ₂ window
Optical aperture	8 mm
Temperature range	Ambient to 910 °C
Pressure range	Vacuum (10^{-6} torr) to 25.8 ktorr

Ordering information

Raman Microscope Reaction Chamber HRHVC-MRA-XXX
Please specify your microscope make and model.

Replacement parts

Screen set, two each of three mesh sizes	HR116-439
K-Type Thermocouple	HR008-144
13x2 mm SiO ₂ window	HRWAD-U22
13x2 mm Al ₂ O ₃ window	HRWBD-U22
Cooling cartridge	HRHVC-COL
Heater assembly	HRHVC-HT4
Heater, 24V	HRHRS-26
Temperature controller, 24V output, 110V.	HRATK-024-3
<i>Includes USB adapter</i>	
Temperature controller, 24V output, 220/240V (CE Marked).	HRATK-024-4
<i>Includes USB adapter</i>	
Temperature controller. USB to RS-485 adapter	HRATC-USB-485

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Reach out to us any time for more information on the application described in the text above or visit our website **specac.com** to read more and make an enquiry.