Closed Cycle Cryostat

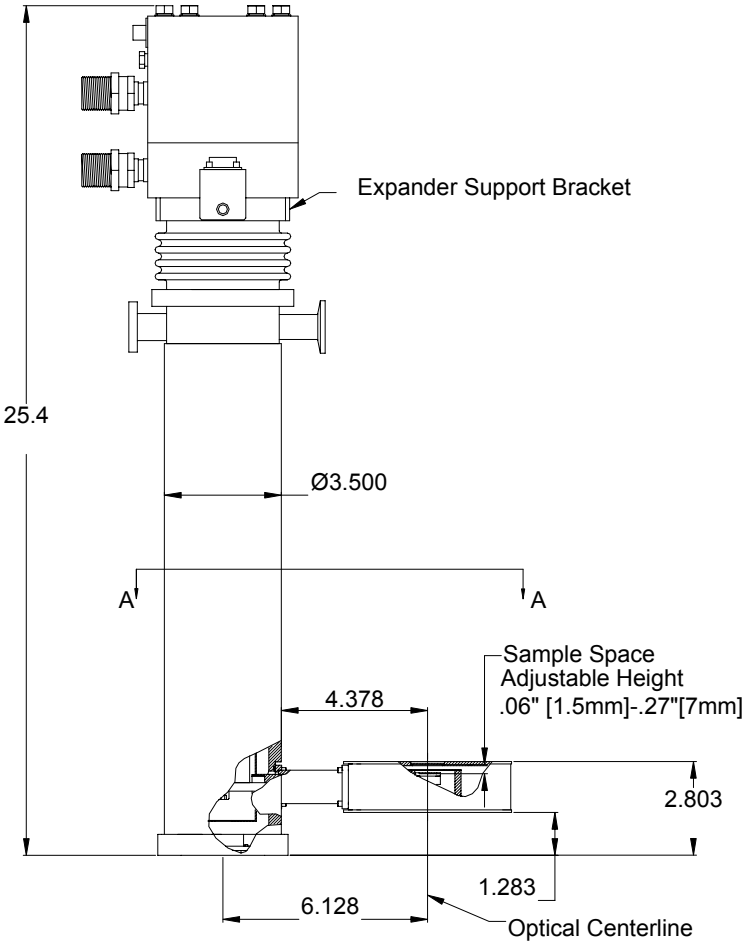
Cryostat Models:

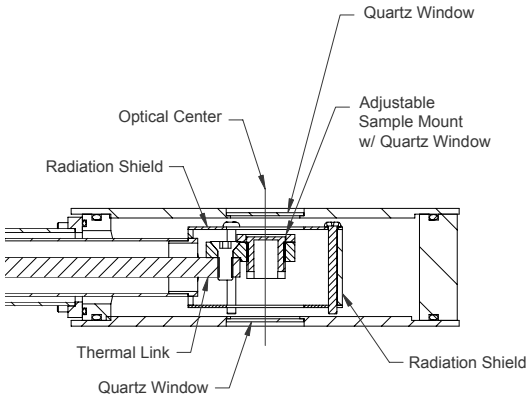
CS204S-x20-om	***4K***
CS204N- x20-om	**6K**
CS204A- x20-om	**10K**

Applications:
Micro-Raman, Micro-spectroscopy,
Low Vibration Optical Experiments
Quantum Dot – Photoluminescence.
Mossbauer

Design Features:

- Sample is isolated from cryocooler. See specifications for vibration level.
- Vibrations less than 5 Nanometers.
- Sample temperature will be ~ 4-5K higher than the cryocooler temperature.
- 1 High Purity Quartz Window installed. (Optional 2 nd window for transmission)
- Window materials for optical spectroscopy (Vis, UV,IR windows available.
- Compact optical shroud.
- Continuously variable sample to window distance.





This is to inform you about our recent tests on the closed-cycle cryostat designed for Raman and infrared experiments under the microscope.

Here you can find two photos taken, one at room temperature with the system off, and the second one at 8K and their relative Raman spectra. As you can see from the pictures, no vibration can be detected and the Raman spectra are pretty nice. This sample was also interesting because it displays a phase transition on cooling down: Raman spectra at different temperatures clearly show the onset of this phase transition.

In conclusion we are really satisfied.

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