

Liquid Nitrogen Research Dewars

Sample in Static Exchange Gas



Model NVT

CRYO Industries of America
www.cryoindustries.com

Sample in Exchange Gas

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In Cryo's Sample in Exchange Gas liquid nitrogen dewar, the liquid nitrogen reservoir surrounds the central sample tube. Load your samples into this tube; adjust the amount of exchange gas and samples will immediately begin to cool. The exchange gas thermally couples the sample to the liquid nitrogen. The amount of thermal coupling depends on the exchange gas pressure.

The Model 5NVT research dewar is variable temperature in the range of <77 K to 325 K (500 K optional). Temperature is controlled by the exchange gas pressure and the power dissipated in the heater that is wound on the sample mount. Temperatures below 77 K can be reached by pumping on the nitrogen bath.

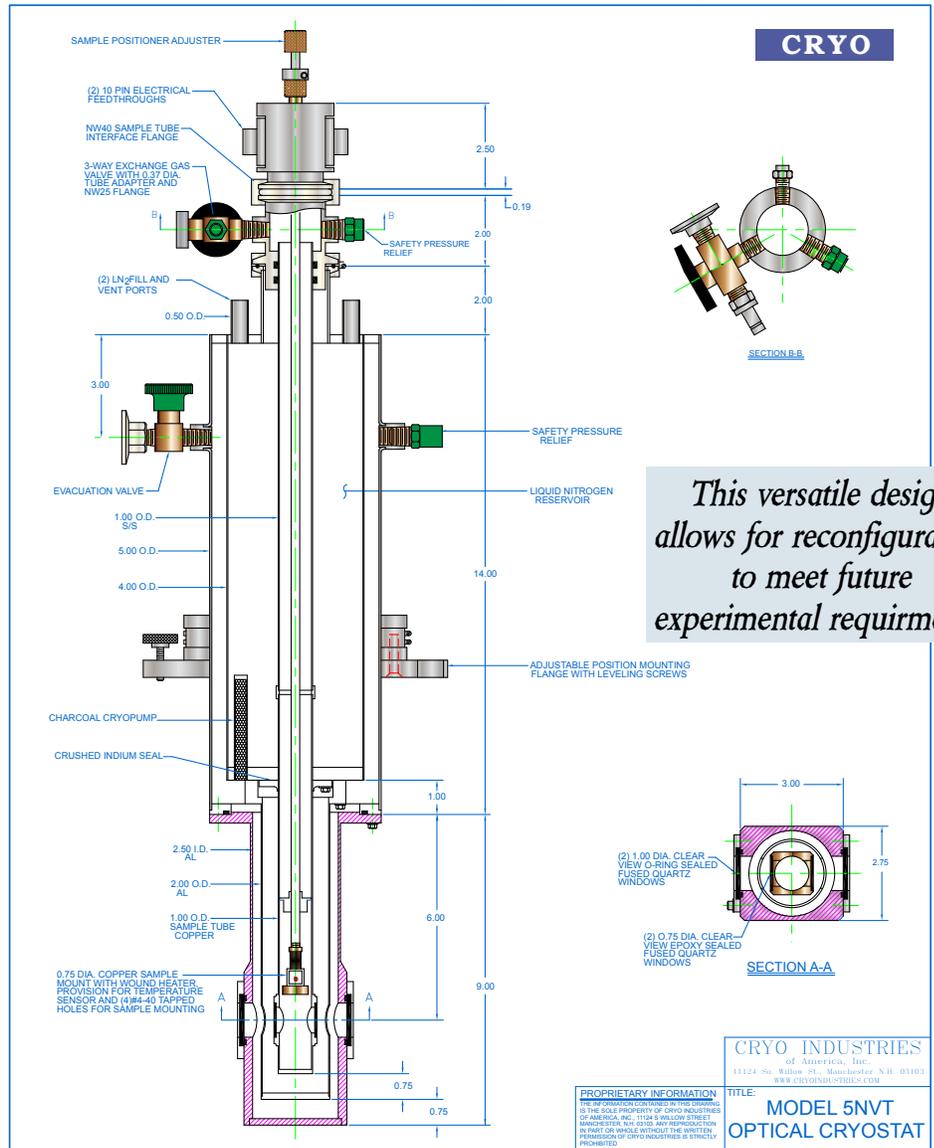
- Highly polished stainless steel
- Top-loading samples
- Exchange gas cooling
- Variable Temperature
- Reconfigurable to future experimental requirements
- Charcoal cryopump
- Easy to fill and operate
- Long hold time

Cryo Industries has over 25 years experience in designing and manufacturing Liquid Nitrogen Test Dewars. Innovative design has led to the development of an industry unmatched thermal link design for sample in vacuum LN2 dewars.

Cryo is able to custom design a system that will meet all of your experimental needs. You supply us with your experimental specifications and we provide you with a system that is guaranteed to meet those needs!

Variable Temperature Liquid Nitrogen Top Loading Cryostat: Sample In Static Exchange Gas Style

Optical or non-optical designs available



System Features:

- <77K to 325K operating temperature range
- 1.00 inch O.D. sample tube
- Top Loading Sample probe with external rotational and linear adjustments
- Copper sample mount with tapped holes for sample mounting, 50 ohm heater, and platinum temperature sensor installed on sample mount
- (2) 10-pin electrical feedthroughs for sample tube region
- Nitrogen fill and vent ports
- 3-Way Sample exchange gas valve with 0.37 dia. tube adapter and NW25 flange
- Compound Pressure gauge for sample tube zone
- Sample tube and vacuum space safety pressure reliefs
- Evacuation valve with NW25 flange
- Internal charcoal cryopump for vacuum space
- Adjustable position mounting flange with leveling screws