CRYO INDUSTRIES
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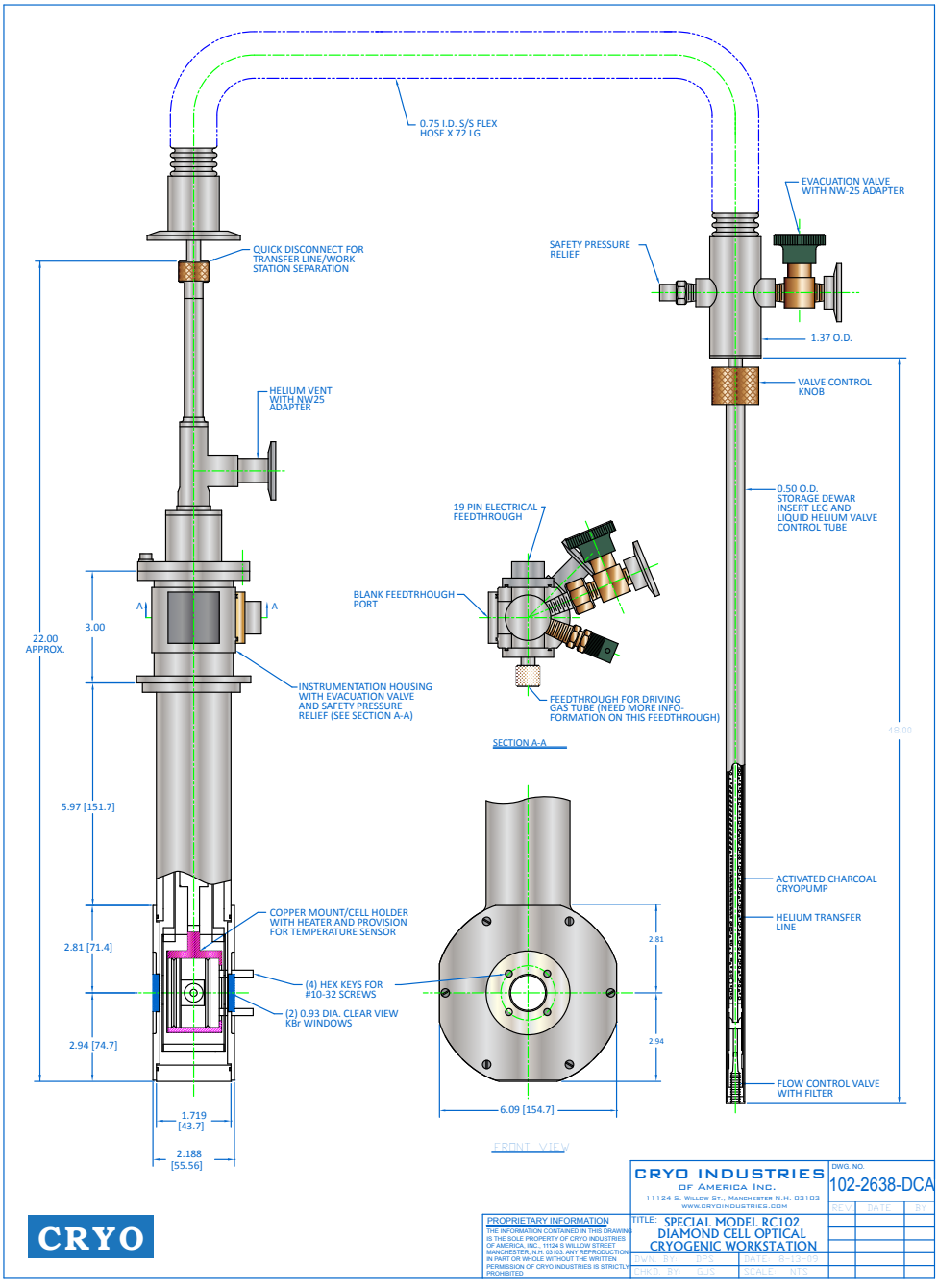
# Cryogenic Workstations for Diamond Anvil Cell

# Compact Sample in Vacuum Continuous Flow Microcopy Style Cryostat for Diamond Anvil Cell *(CFM-102)*




## System Features

- Sample in Vacuum
- In-Situ DAC pressure change via hex key or gas membrane
- Compact design, short working distance
- Low Vibration
- Unique Conductive DAC support assembly/holder
- Operates with LHe, LN2 or Universal Cryocooler
- Variable temperature operating range 4 K to 325 K
- Interchangeable additional DAC holder (Easy Lab Omni-Dia Cell).

# Universal Cryocooler: Cryogen Free, Closed Loop Cooling for Continuous Flow Cryostat(s)

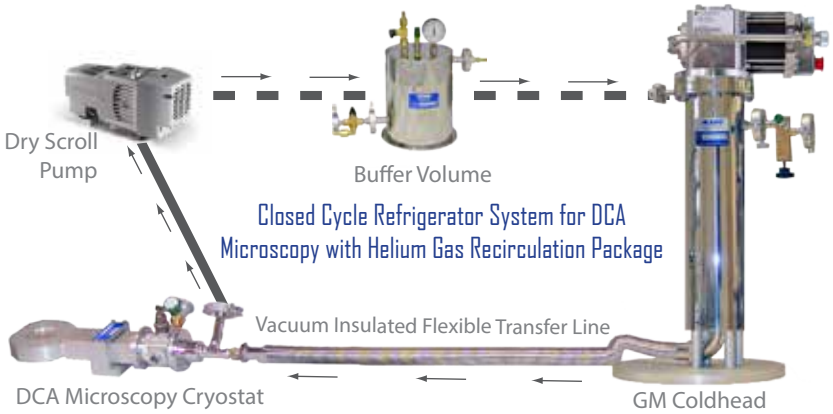
CRYO's closed cycle '**Universal CRYOCOOLER**' provides a continuous cold helium gas stream – without using liquid helium.

In the Closed Cycle Refrigerator System for the DAC Microscopy cryostat the refrigerator has **no direct mount to the sample** making this system ideal for low vibration experiments. It also employs a closed loop circulation of helium gas used for sample cooling *(see diagram below for recirculation schematic).*

The Refrigerator cryostat transfer line is interchangeable with CRYO's liquid helium XE transfer line. Hence, the DAC microscopy cryostat can be used with either the Refrigerator cryostat or standard liquid helium transfer line.

*Diamond Anvil Cell Cryostat with Cryocool-LT (8 K - 325 K)*

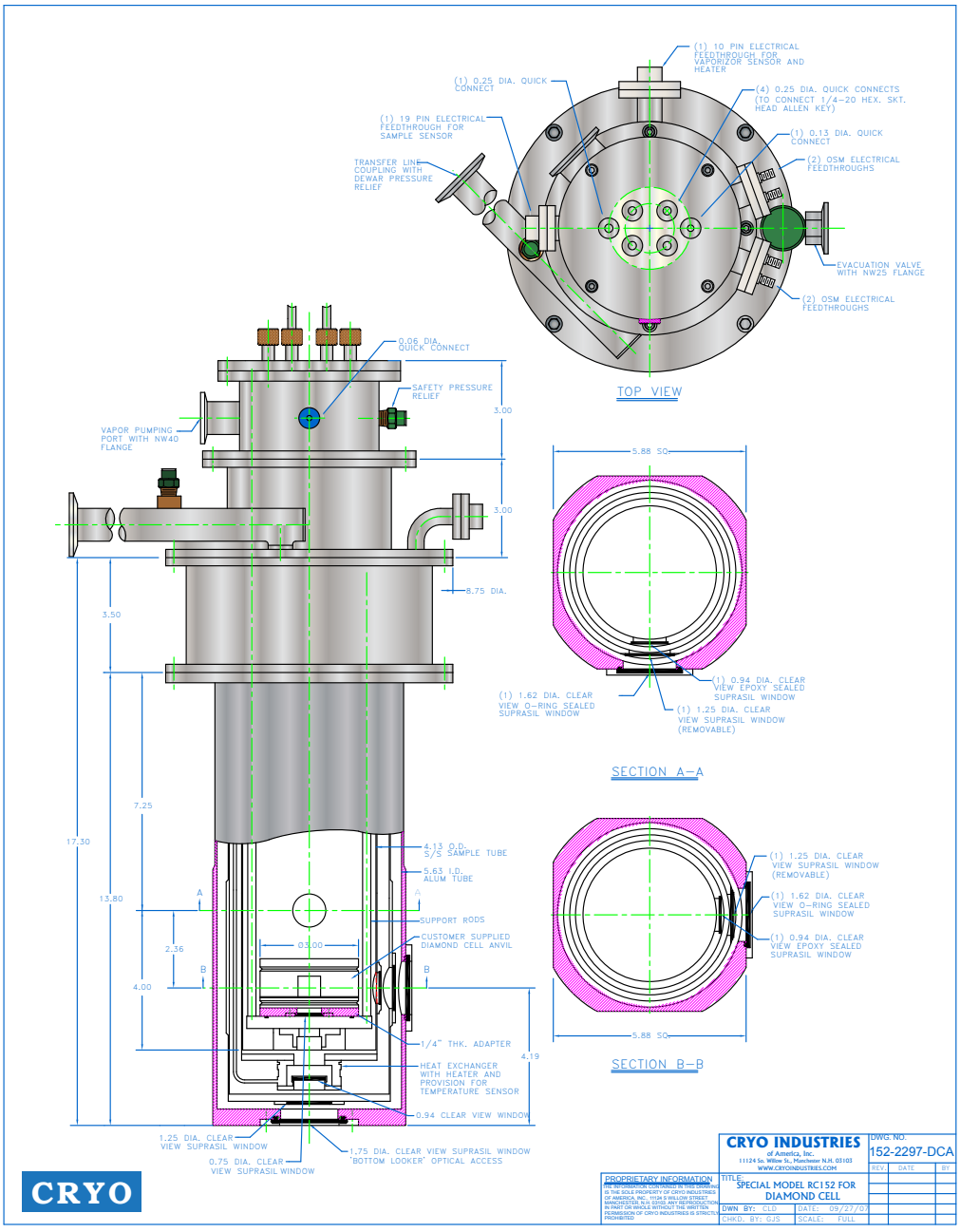
*Closed Loop, Circulation Circuit*




## System Features

- Low vibration - no direct mount to refrigerator
- Two operating temperature ranges available (8K - 325K or 20K - 325K)
- Closed loop circulation of the helium gas used for sample cooling
- Two-stage Sumitomo coldhead and water cooled compressor
- System completely integrated and tested with DAC cryostat

# Sample in Flowing Vapor Continuous Flow Cryostat for Diamond Anvil Cell *(RC-152)*




## System Features

- Sample in Dynamic Flowing Helium Vapor
- In-Situ DAC pressure change via hex key or gas membrane
- Fast cooldown
- 2.3 K to 325 K Variable Temperature operating range
- Top-Loading sample
- Large sample space, accomodates various cell sizes
- Operates with LHe, LN2 or Universal Cryocooler
- Anvil support assembly

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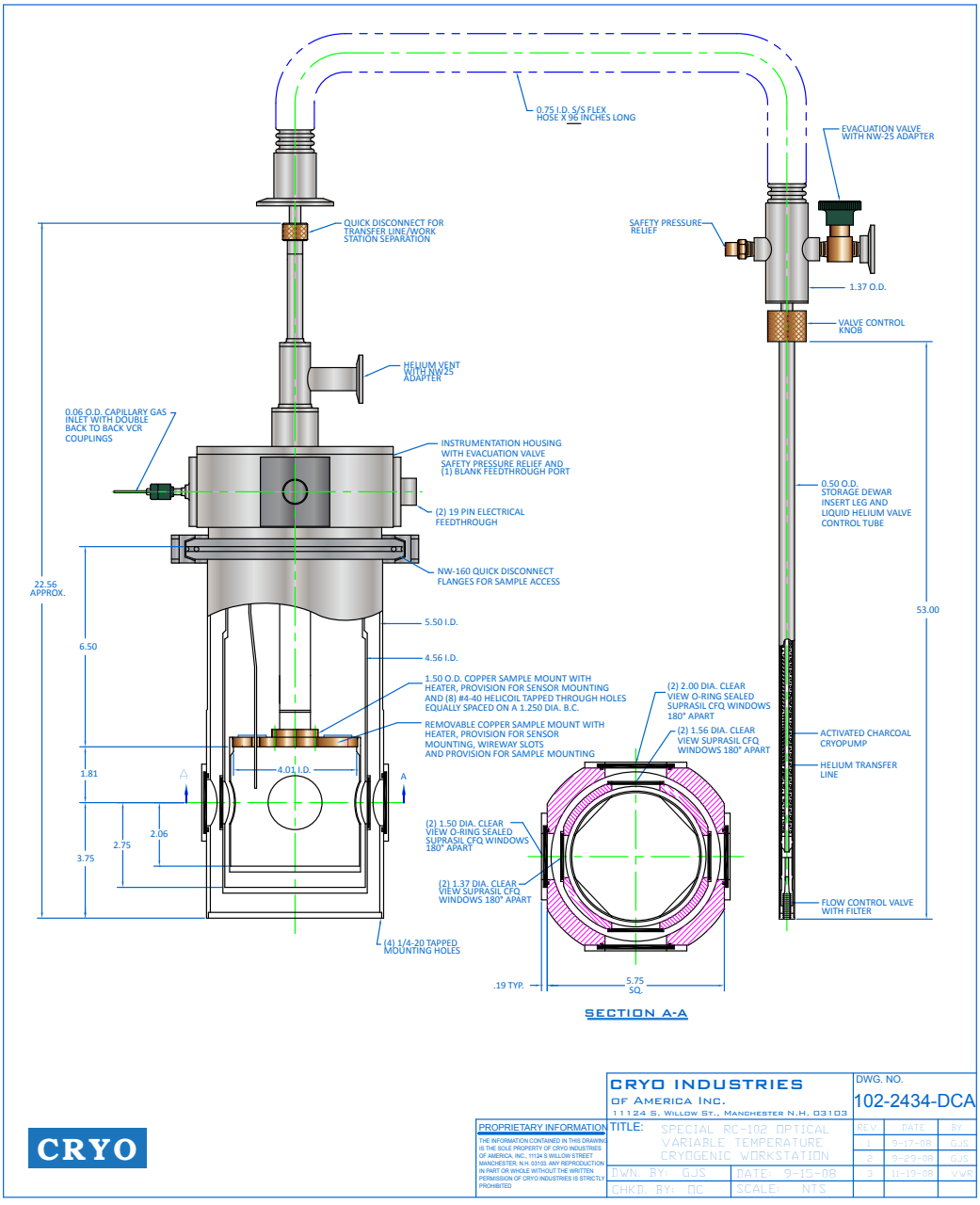
# Sample in Vacuum Continuous Flow Cryostat for Diamond Anvil Cell *(RC-102)*




## System Features

- Sample in Vacuum
- In-Situ DAC pressure change via gas membrane
- Unique Conductive DAC support assembly/holder
- Operates with LHe, LN2 or Universal Cryocooler
- Variable temperature operating range <4 K to 325 K
- Economical design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