

# **CLOSED CYCLE CRYOGEN FREE COOLING OF FLOW CRYOSTATS**



*Revolutionary design provides closed cycle flow  
cooling of various cryostats down to 5 K!*

# UNIVERSAL CRYOCOOLER

This revolutionary Cryo Industries CRYOCOOL design provides closed cycle flow cooling of various cryostat down to 5 K!



*CRYOCOOL-G2b with Microscopy Cryostat and Re-circulation Package*

**Easy to integrate with any Cryo Industries Continuous Flow Cryostat.**

**When operated with the Liquid Helium Recirculation package there is no need to buy Liquid Helium again!**

**No liquid helium required after initial set up!**

**The CRYOCOOL cooling system is ideal for low vibration experiments. The refrigerator vibration is isolated because the cryostat is separate from the refrigerator cryostat.**



*CRYOCOOL-LT with Diamond Cell Anvil Cryostat and Re-circulation Package*

## FLOW COOLING OF CRYOSTATS DOWN TO 5 K WITH RE-CIRCULATION PACKAGE



*Cryocool-G2 (20K - 325 K) w/  
Microscopy Flow Cryostat*

each cryostat can also accept the XE LHe transfer line, which can be used to obtain even lower temperatures.

Liquid cryogens are not used. The 'closed cycle refrigerator' provides the cooling needed.

Initially helium gas is supplied to the CRYO cooler from a gas cylinder. Afterwards, the gas is re-circulated. Systems with low end temperatures of either 5 K, 8 K, 11 K or 20 K are available.

CRYO's closed cycle '**CRYOCOOL-LT (LowTemp) system** provides a continuous cold helium or nitrogen gas stream – without using liquid helium or nitrogen.

Helium or Nitrogen gas flows into the refrigerator. The refrigerator cools the gas. The cold gas transverses the transfer line and exits at the nozzle.

**The transfer line exit nozzle (down stream leg) inserts into the Cryostat, making a truly universal cooler for multiple experiments.**

In addition, the CRYOCOOL-LT nozzle is interchangeable with CRYO's liquid helium XE transfer line. Hence, the CRYOCOOL-LT can be used with multiple cryostats and



*Cryocool-LT (8 K - 325 K) w/RC-102  
Diamond Cell Cryostat*

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