

# CRYOBITZ

Cryogenic Laboratory Spares



## Cryogenic Spares and Repairs



# Thermometry

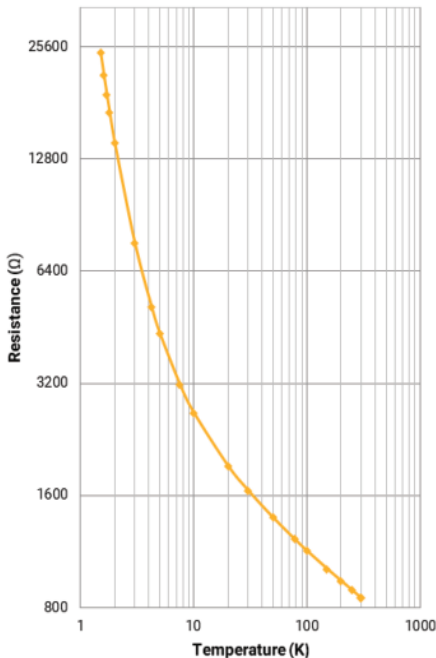
A complete range of sensors measuring temperatures in the range of 20mK to 800K to suit all cryogenic environments. Our range includes: Generic Ruthenium, Platinum, CLTS, Calibrated Carbon Ceramic Sensors and 30-point Ruthenium Calibrated sensors.

## Calibrated Carbon Ceramic Sensors

Our Calibrated Carbon Ceramic Sensors have a carbon-ceramic construction which adheres to a single resistance vs. temperature curve, offering excellent performance and stability in magnetic fields and high dose radiation in the temperature range of 1.5K - 300K.



Calibrated Carbon Ceramic Sensor Resistance



Scan here for our full thermometry range



# Lab Essentials

## Adhesives

A range of adhesives suitable for a wide range of materials in cryogenic environments.



## Tapes

Self-adhesive tapes with a high resistance to low temperature environments.



## Insulation

Various thicknesses of Aluminium, Clear Mylar, Aluminized Mylar and multi-layer sheets for insulating cryogenic systems.



## Rubber Bladders

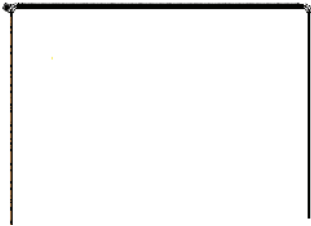
Regular and thick walled bladders for pressurising dewars. They can also be used as a reservoir in some applications.

Scan here for our full range of lab essentials

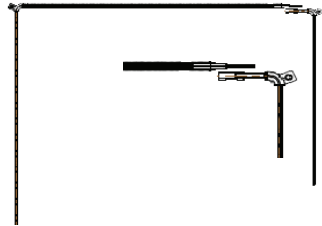


# Transfer Lines

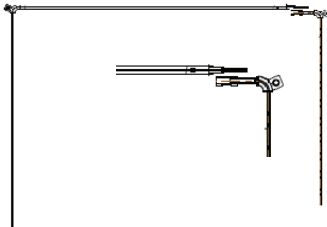
A range of standard and low loss transfer tubes for normal short duration transfer.



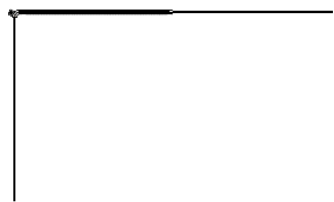
Standard Flexible Transfer Tube



Standard Flexible with Horizontal Demountable Joint



Standard Rigid with Horizontal Demountable Joint



Standard Flexible Single Elbow



Low Loss Liquid Helium with Single Elbow



Low Loss Liquid Helium with Two Elbows



Scan here to see our full range of Transfer Lines



# Looms and Wiring

## Loom

Cryogenic ribbon cable compatible with low-temperature and vacuum applications. Looms can be customised with connectors on one or both ends.



Scan here  
for our loom



## Wire

Manganin, Copper, Constantan and Flexible Stainless Steel Co-Axial wire available in various thicknesses and lengths. We also offer wiring bobbins for thermal anchoring.



Scan here  
for our range  
of wires



# Cryogenic Equipment

Equipment to help run, maintain or update cryogenic systems.

## Cold Traps

Liquid Helium and Liquid Nitrogen cold traps to remove air and moisture from cryogenic gases during circulation in a dilution refrigerator.

## Cryogenic Vessels

Handling/storage dewars in a range of sizes, suitable for the storage and transportation of Liquid Helium and Liquid Nitrogen.

## Flow Control

Helium gas and Nitrogen gas flow control boxes and automatic needle valves.

## Level Probe

Helium and Nitrogen gas level probes, compatible with the Helium and Nitrogen level metres.

Scan here to see  
our full range of  
cryogenic equipment



# Breakout Box

Prevents high frequency RF contamination of cryogenic systems by extending the Faraday enclosure from the experimental insert to the electronics rack. It includes 24 female BNC connectors, 12 twisted pair measurement cable and external screen braid. There are options for a 3-way or 4-way switch.



# Valves

A range of valves suitable for cryogenic applications including:

- Over Pressure Valves
- General Purpose Vacuum Valves
- Two Piece Pumpout Valves
- Auto-needle Valves
- NW/KF Valves



Scan here for our full range of valves



# Repairs

CRYOBITZ can offer repairs and refurbishment to cryogenic systems and equipment, whether they were originally manufactured by ICE or not.

Some of the services we can provide are:

- Diagnostics and repairs of cryostats that fail to reach base temperature, leak or have sustained damage
- Repair of broken transfer lines, cold traps, probes and dippers
- Rewiring or wiring upgrades

...and much more!



Scan to see some  
repairs we've done  
previously

