

Screenshot taken during actual test of cryostat no. 3913

Charcoal Temperature



Sample Temperature (Kelvin)

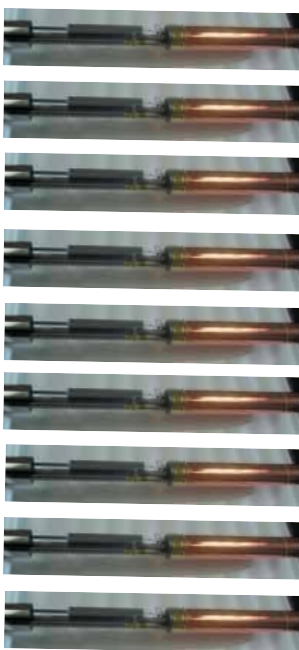
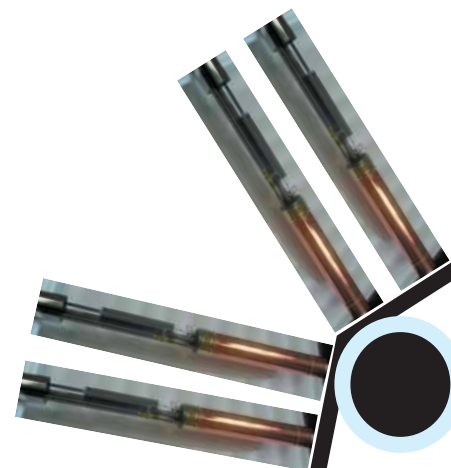
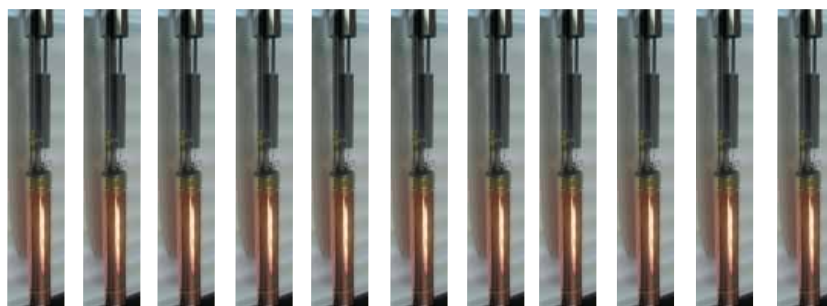
HELIUM-3 PRO

Nanotechnology has created the demand. So, we set up our most popular Helium-3 insert on the CNC, reduced tweaking time and provide you with the lowest priced helium-3 system available anywhere.

The 'Pro' is a Production manufactured He-3 insert. This saves 40 to 50% when compared with similar systems. The reason cryostat systems can be expensive is due to the fact that many are made in single (1) quantities. Volume saves manufacturing costs (money)! We pass on the savings!

Save 40% = 50%.

Why delay your experiments two months or more waiting to get more money? The 'Pro' provides 'Performance by Design' and fast delivery!



Q & A 'The Pro'

Q. What is the difference between the Pro and the standard He-3 insert?

A. Nothing, they are the same cryostat except the std has extra accessories, can be fully customized. and is tweaked after testing.

Q. What is the base temperature?

A. The Pro system is individually tested to make sure that it reaches a base temperature between 260 mK and 329 mK.

Q. Can I try tweaking the unit myself?

A. Yes

Helium-3 'The Pro'	Sample in Vacuum
Base Temperature	260 mK - 329 mK
Hold Time at Base Temperature	24 Hours
Temperature Range	Base Temperature to 80 K
Thermometers	RuO2 (10K) - charcoal & POT RuO2 (1K) - sample Pt (100) - sample [All temperature sensors compatible with use in high magnetic fields]
Helium-3 Regeneration Time	30 min typ.
Sample Mount Diameter	1.25 inch 31.7 mm
Sample Environment	Vacuum (std) with Liquid/vapor Top Load Port 0.21 in dia. clear [5.3 mm] (Port epoxy sealed with NPT fitting)
Experimental Access Vacuum Seal	Quick connect IVC with tapered grease seal
POT digital level monitor	No
Wire Anchors	Kapton flex circuits + 4K extendable copper post
Charcoal Cooling Method	Both dynamic and static exchange gas
Experimental Wiring	5 twisted pairs (10) wires for Customer use (manganin)
Materials of Construction	Non magnetic