

# HELIUM-3 PRO

Helium-3 'The Pro'	Sample in Vacuum
Base Temperature	300 mK
Hold Time at Base Temperature	24 Hours
Temperature Range	Base Temperature to 80 K
Thermometers	Cernox - Charcoal & Condenser RuO <sub>2</sub> (1K) - Sample Si diode or Platinum RTD - to monitor sample cooldown
Helium-3 Regeneration Time	30 min typ.
Sample Mount Diameter	1.37 inch 34.9 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
Materials of Construction	Non magnetic [Insert and all main temperature sensors compatible with use in high magnetic fields]

## Sample in vacuum 3He refrigerator

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

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)!

The 'Pro' is a Production (volume) manufactured He-3 insert. This saves up to 40% or more when compared with similar systems and we pass the savings on to you! Why delay your experiments two months or more waiting to get more money?

### 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. Can I customize The Pro?  
A. No, except for the length.

Q. What is the base temperature?  
A. The Pro system is individually tested to make sure that it reaches a base temperature less than 300 mK.

