

## Compact Helium-3 refrigerator insert.

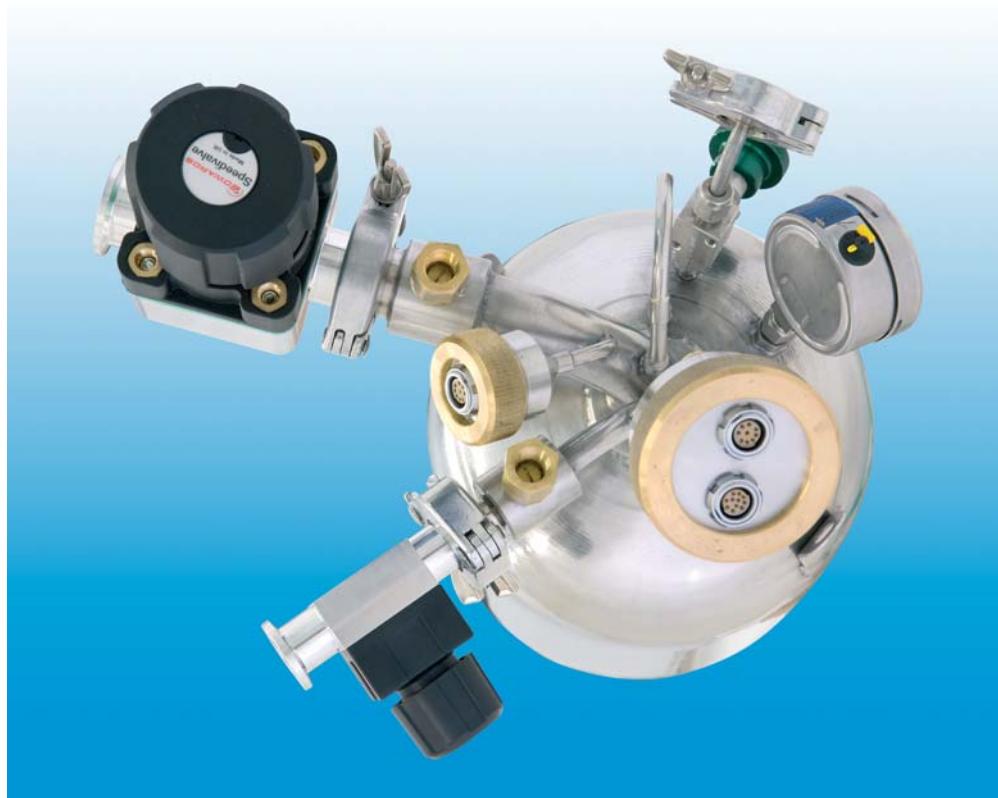
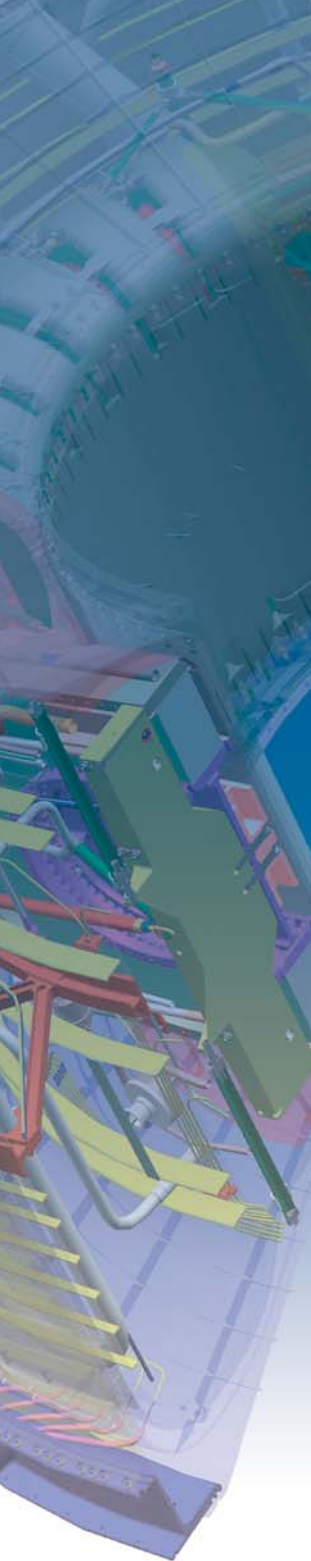


### System includes:

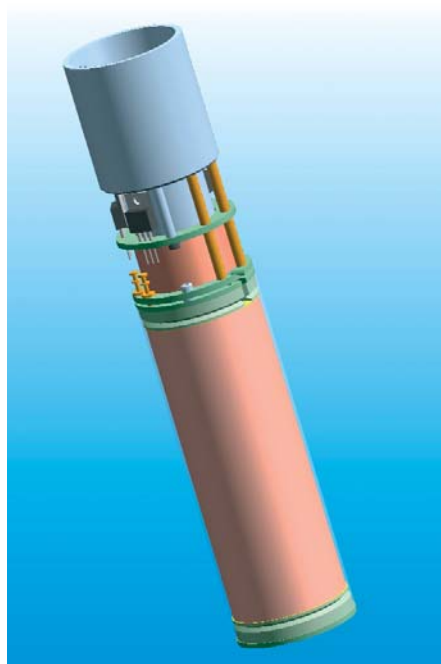
- Compact Helium-3 refrigerator insert including gas storage dump and cryogenic pump.
- Standard diagnostic and experimental wiring.
- Small rotary pump for 1K stage.
- Temperature controller.
- LabView® based computer control system.
- Optional 4T magnet with 30mm bore integrated with the insert.

### Insert specifications

Base Temperature:	<300mK
Hold time at base temperature:	>36hours
Temperature range for automatic control:	0.3K - 4.2K
Sample environment:	Vacuum
Sample space diameter (without magnet):	40mm
Standard wiring:	5 twisted pairs to the 1K stage



**Plan View of Insert**



**Optional 4 Tesla Magnet**

### Optional magnet specifications:

Field Strength:	4 Tesla
Current for full field:	57.4 Amps
Field Homogeneity over 10mm d.s.v.:	0.23%
Sample space I.D. with magnet fitted:	30mm

### Contact us

You can contact Scientific Magnetics through our website [www.scientificmagnetics.com](http://www.scientificmagnetics.com) We will be delighted to discuss your requirements for superconducting and cryogenics systems.

