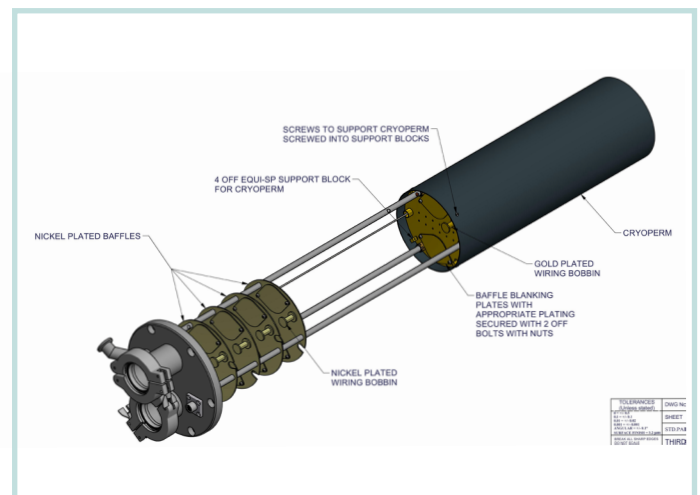
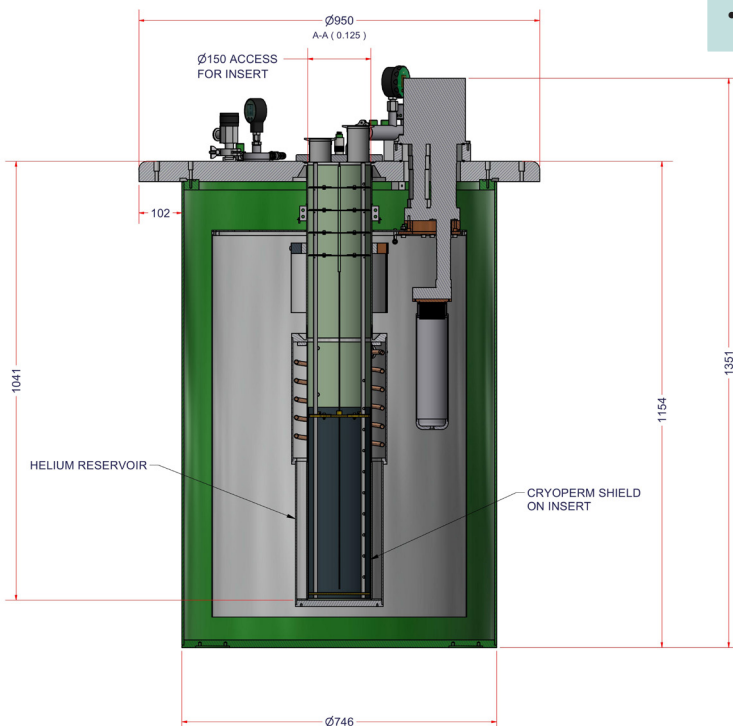


RE-CONDENSING LIQUID HELIUM CRYOSTAT FOR CCC/JOSEPHSON ARRAY INSERTS

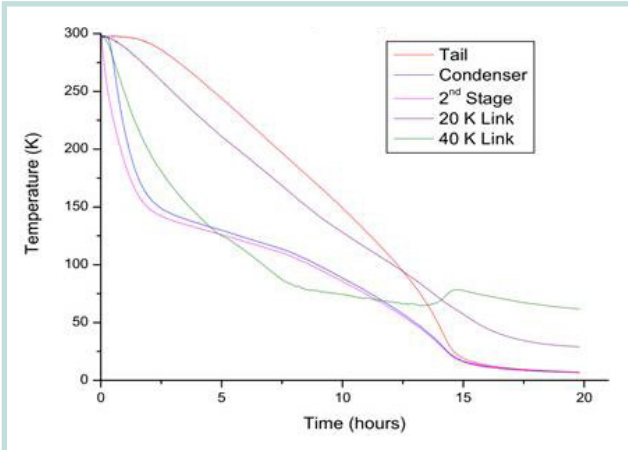


Specifications:

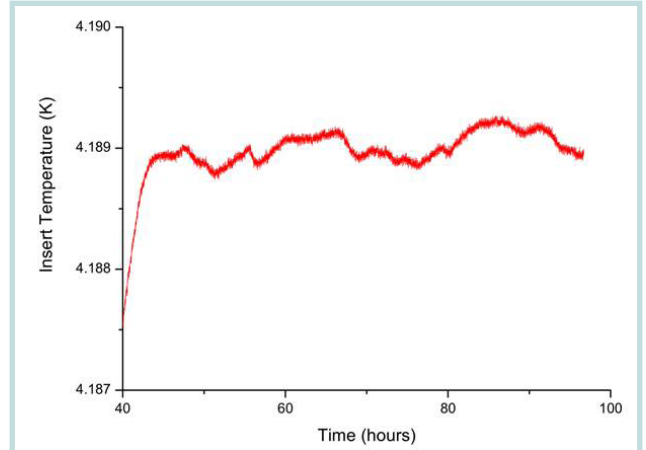
- Top loading insert with two NW50KF ports for experimental access
- Special built-in facility for liquefying helium gas from room temperature for start-up or operation
- No liquid helium or refill required
- Cooling power sufficient to accommodate 500 mW heat load dissipated by Josephson Array
- Electromagnetic screening of external noise signals
- Low vibration; pulse tube cryocooler fitted with Electrical isolation between compressor unit and motor
- Pressure stabilised helium reservoir to minimise instability in CCC operation
- Fast sample change via airlock available
- Low maintenance (every three years)



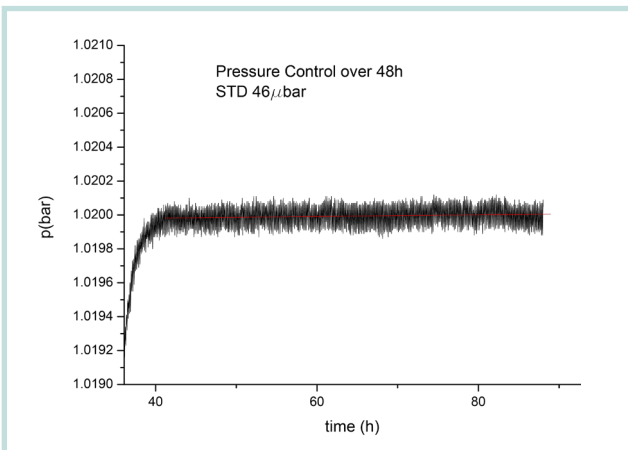
CRYOGENIC



Cooldown in 15 hours - A level of 405 mm achieved covering the insert in excess of 100 mm



Temperature stability of the bath well below 1 m over 48 hours



Stability by pressure below 1 mbar over 48 hours

Cryogenic Current Comparator (CCC)
with superconducting nanovoltmeter

