



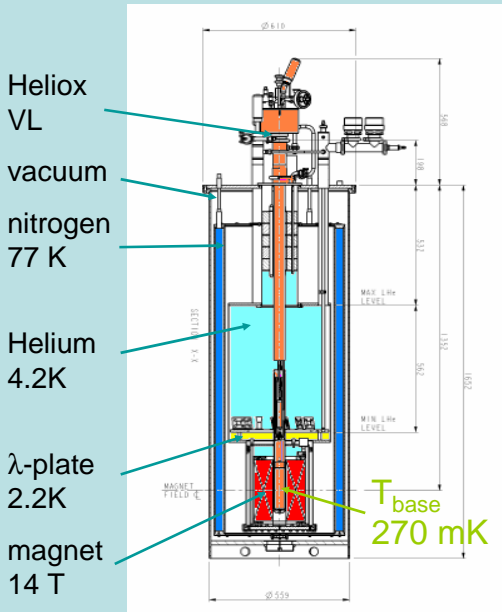
^3He refrigerator

Oxford Instruments Heliox VL

- base temperature: 270 mK
- cooling power 40 μW at 300 mK
- magnetic field: 14 T



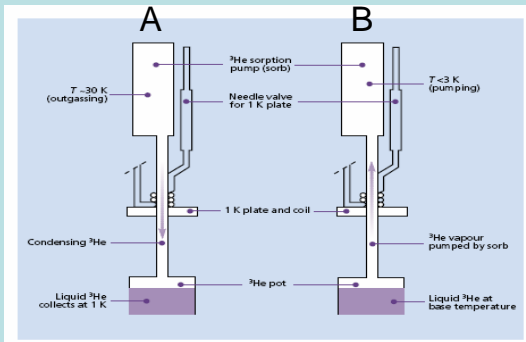
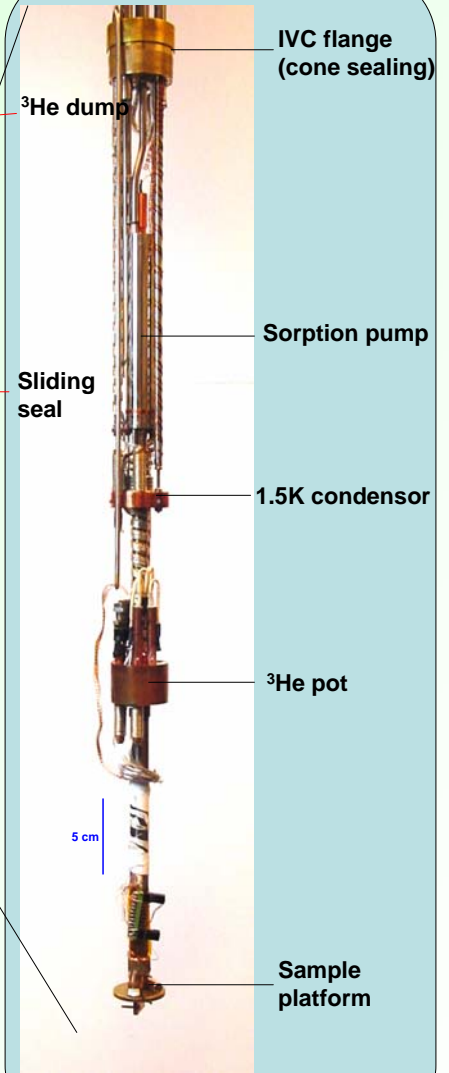
Heliox VL in cryostat



closed

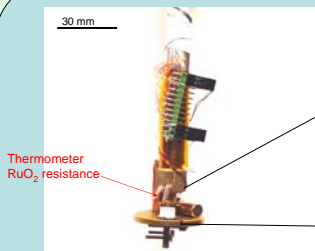


open

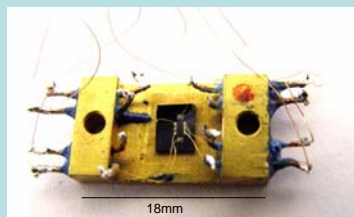


- A:** ^3He gas is condensed in ^3He -pot by 1K plate
- B:** temperature ^3He is lowered by pumping ^3He vapour with sorb pump

^3He refrigerator principle



sample platform



sample holder

- Experiments:**
- magnetoresistance
 - magnetostriction
 - thermal expansion
 - Hall effect, etc.