

ARGONNE NATIONAL LABORATORY

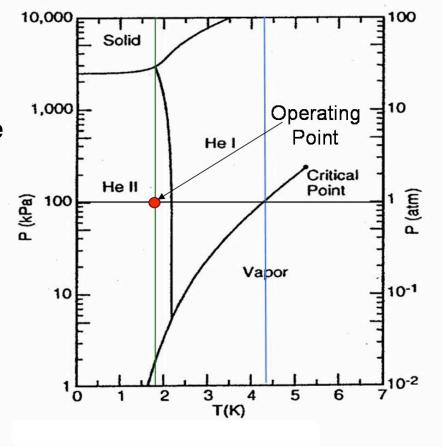
Sub-cooled He II

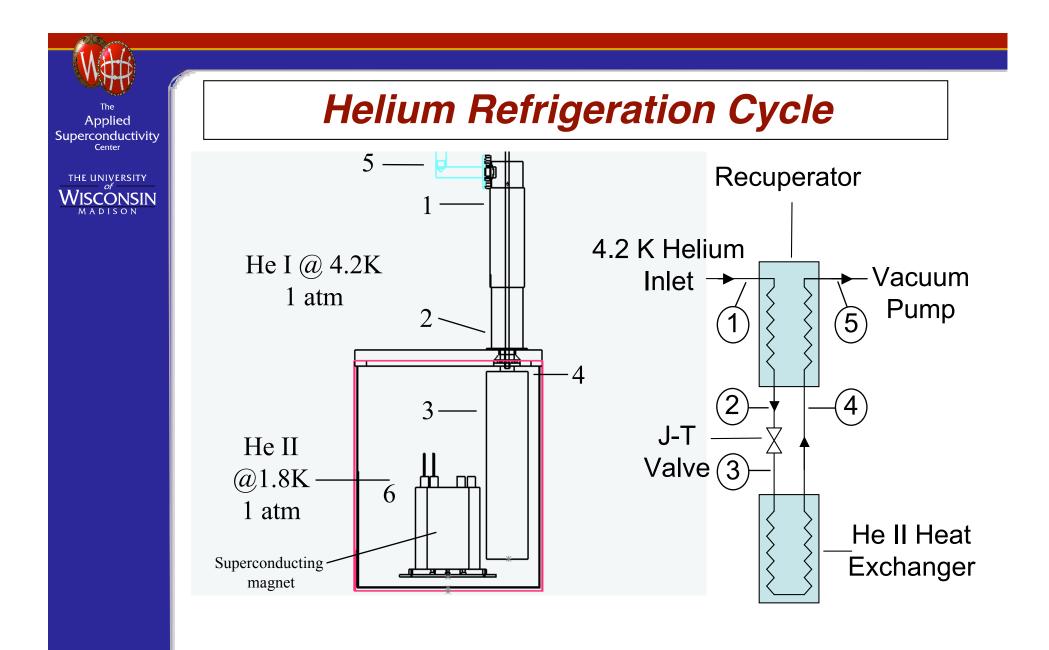
THE UNIVERSITY

Applied Superconductivity _{Center}

- Saturated He II leads to normal helium vapor
- He vapor's poor thermal conductivity results in large local temperature rise
- Best to operate in subcooled He II region
- Optimal superconductor coolant
 - Matches required temperature
 - Can absorb heat energy with minimal temperature fluctuations.

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