

## **Single Phase Cold Helium Transfer Line for Cryo Heat Transfer Applications**

### **Disclosure Number**

201303107

### **Technology Summary**

The invention relates to testing systems and more specifically to systems for cryogenic characterization. A modified helium gas transfer line provides a method to extract single phase helium gas at temperatures between 5 K and 20 K from a liquid helium dewar at flow rates up to 1 g/s. This is utilized in experimental heat transfer and materials characterization near liquid helium temperatures that would otherwise be hampered due to fluctuations in pressure and/or temperature in the cooling circuit.

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