

Sample Puck Tester for rapid cooling

Compact **Cryofree**[®] 4 K cryostat for rapid cooling of standard **Triton** sample pucks



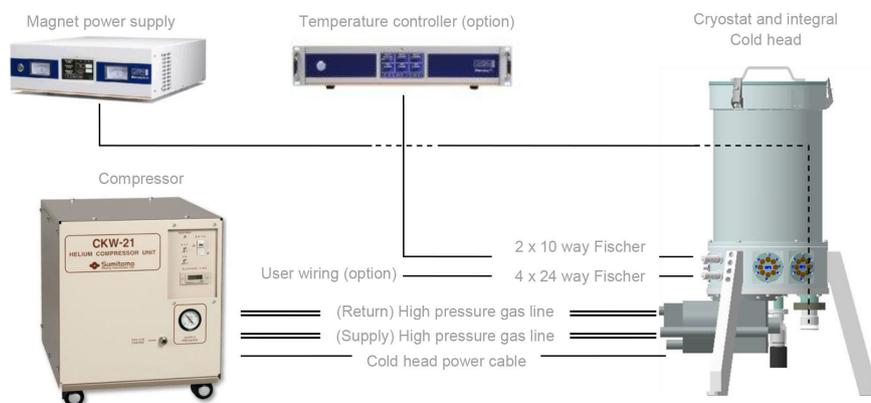
The Sample Puck Tester is a compact cryostat, with extensive DC and high frequency signal access as well as an optional 3 T magnet, cooled by a closed cycle refrigerator.

Changing the sample is quick and easy, thanks to the table-top design with a single room temperature seal. The compressor is air cooled, which makes it easy to move the system around with no cooling water facilities required.

This new system from Oxford Instruments is ideal for pre-screening samples before testing them at milliKelvin temperatures on a **Triton** dilution refrigerator, or for just about any 4 K experiment requiring a larger number of signal lines. The entire system with magnet and sample puck cools from room temperature to less than 4 K in about 5 hours, or less than 4 hours without the magnet installed.

The Sample Puck Tester provides a sample-in-vacuum measurement environment with accurate temperature control from 4 K all the way up to 300 K using an Oxford Instruments **Mercury**iTC. LabView drivers for remote control and data logging are supplied.

- Compatible with **Triton** BL42 or BL72 sample pucks
- Convenient table-top design with sample access from the top
- Quick sample change through a single room temperature seal
- Supplied with up to 28 semi-rigid coaxes plus 100 DC lines
- Temperature control up to 300 K with integrated heaters
- Supplied with **Mercury**iTC thermometry read-out and control electronics
- Optional 3 T, 80 mm bore superconducting magnet with HTS current leads



Schematic diagram of Sample Puck Tester system

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