

3 years
comprehensive
warranty



The Business of Science®

Triton™ XL

Cryofree® extra large dilution refrigerator designed for quantum computing with extended sample space and enhanced cooling power



Why choose **TritonXL**?

The **TritonXL** range of dilution refrigerators enables higher cooling power, more sample space and achieves colder base temperatures than any other **Cryofree** dilution refrigerator on the market (3.3 mK has been demonstrated). **TritonXL** comes with two different dilution units based on the choice of base temperatures and cooling power:

- **TritonXL 1000** with a guaranteed base temperature of < 5 mK (< 4 mK expected) and cooling power of 900 μW at 100 mK
- **TritonXL 500** with a guaranteed base temperature of < 10 mK (< 7 mK expected) and cooling power of 450 μW at 100 mK

Lowest base temperature on the market

- Less than 5 mK base temperature
- 5 μW of cooling power at 10 mK
- 25 μW of cooling power at 20 mK
- Accepts up to two 1.5 W pulse tube refrigerators

Large sample space and extended wiring capacity

- 430 mm diameter mixing chamber sample plate
- 100 mm central line-of-sight port for semi-rigid coaxes or a top loading exchange mechanism
- Six 50 mm line-of-sight ports for semi-rigid coaxes
- A total of up to 70 semi-rigid coaxes with SMA connectors can be installed
- Compatible with high density coax stick, allowing 36 microwave lines per line-of-sight port

Complete magnet integration

- Integrates magnets up to 16 T
- Fully designed, built, tested and guaranteed by Oxford Instruments

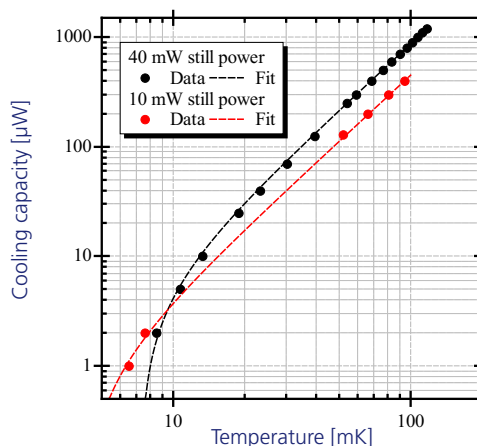
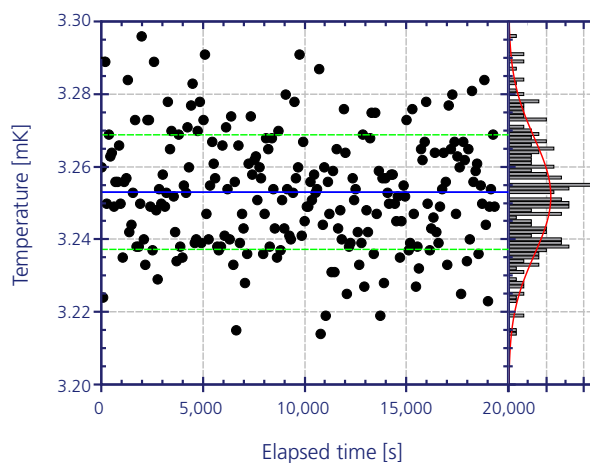
Low vibration

- To ensure low vibration, the PTR coldhead is isolated at the system top plate, at intermediate plates, and at 4 K stages
- The new rigid support structure reduces the amplitude of low frequency modes, resulting in low vibration within the sample space

Fast sample loading

- Patented, unique top and bottom-loading sample puck design for best-in-class wiring capability and fast sample change
- Proven 10 mK sample temperatures with multiple semi-rigid coaxes
- Up to 28 RF connections plus 100 DC connections
- Fast cool-down within 15 hours

All **Triton** systems come with 3 years comprehensive warranty including all supplied third party components, such as the pulse-tube cooler, pumps and electronics – all backed by our expert regional service teams.



Visit www.oxinst.com/tritonxl or email nanoscience@oxinst.com

Main service locations: UK, USA, Germany, China, Japan and India

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