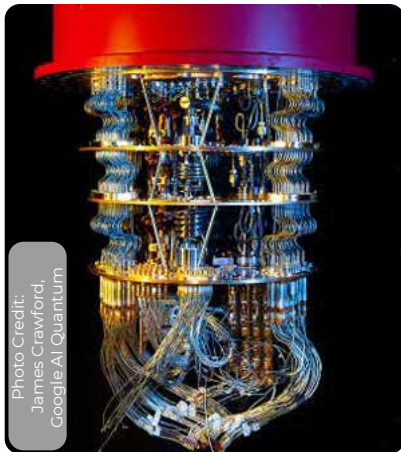




Engineering Supremacy at Ultra-Low Temperatures

DILUTION REFRIGERATORS FOR QUANTUM COMPUTING

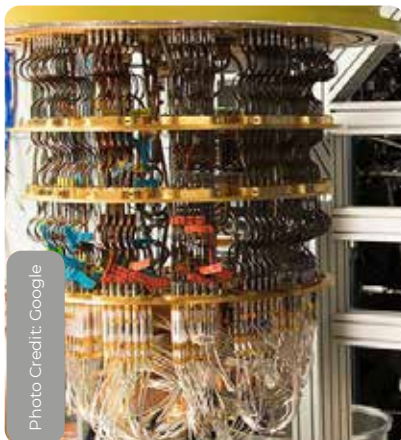


JDry Cryogen-free Dilution Refrigerators – Optimized for Quantum Computing

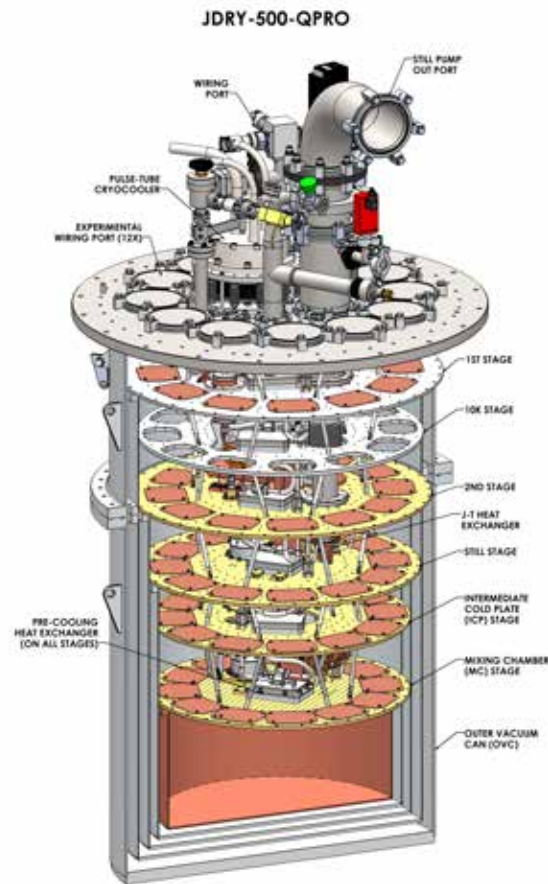
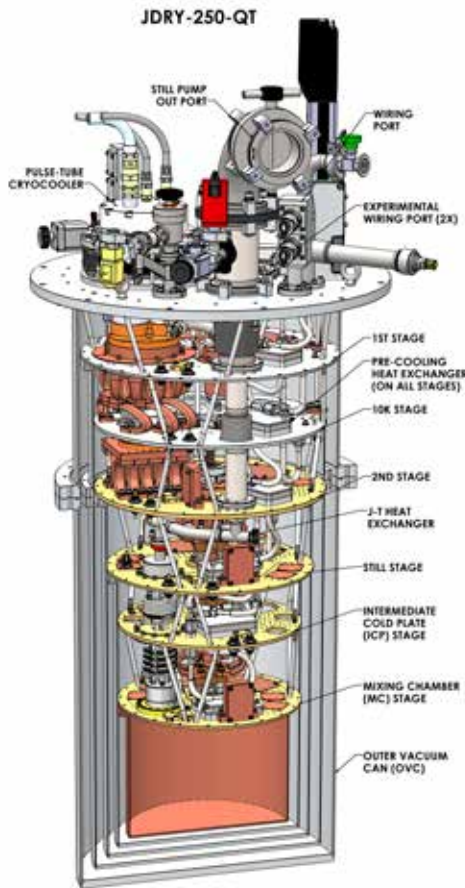
Available in two models:
The compact JDry-250-QT and
the larger and more powerful JDry-500-QPro

JanisULT JDry models offer:

- Proven technology
 - Designed in conjunction with Google
 - Special light-tight design features
- Low running costs, less vibration, less noise, reduced maintenance
 - 10 K plate to thermalise experimental services
 - Single pulse tube cooler
 - Mechanical heat-switch for precooling
 - Quiet, low vibration condensation with no external booster/compressor required
- Large convenient experimental access
 - Up to 12 off ISO100 ports
 - Located on perimeter of plates
- Automated operation via touch panel controller
 - Remote operation via ethernet interface
 - API programming for 3rd party access to key functions
 - Option for manual operation via preconfigured scripts



DILUTION REFRIGERATORS FOR QUANTUM COMPUTING



- Made in USA
 - Designed, manufactured and supported from Woburn, MA
- Designed for reliability and serviceability
 - Only silver brazing and TIG welding in the DR core (no soft-solders)
 - Modular design of DR core for ease of removal
 - Demountable impedance and JT stage
 - Robust industrial strength National Instruments' Linus-based controller
 - Full monitoring of state of all valves, gauges, sensors and pumps
- Best in class thermometry
 - Lake Shore LS372 AC bridge
 - CMN calibrated thermometry reliable to 5 mK
- Excellent customer service
 - 3 year warranty
 - Access to the engineers and scientists that designed and built your system

SPECIFICATIONS	JDRY-250-QT	JDRY-500-QPRO
Base Temperature	≤ 10 mK	
Guaranteed Cooling Power	≥ 250 μW @ 100 mK; ≥ 8 μW @ 20 mK	≥ 450 μW @ 100 mK; ≥ 14 μW @ 20 mK
Room Temperature to 20 mK Cooldown Time	Pre-cooling: With LN2 ≤ 24 Hrs Without LN2 ≤ 46 Hrs	Pre-cooling: With LN2 ≤ 36 Hrs Without LN2 ≤ 48 Hrs
Top Flange NW-100 to Experimental Wiring	2 (Up to 54 Semi-rigid Cables with SMA System)	12 (Up to 270 Semi-rigid Cables)
User Control Interface	Touch Panel Operation; Fully- or Semi-automatic; Remote Access (VPN)	

Visit www.janult.com or email info@janult.com

 **Janis ULT**
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