

Why choose **Heliox**?

The **Heliox** range of single shot ³He systems allows users to access temperatures below 300 mK for extended periods. Advanced design and construction techniques decrease the base temperature, increase available cooling power all while decreasing ⁴He consumption and ³He quantity.

A fully configured **Mercury**iTC provides total control of the **Heliox**, automating cooldown from room to base temperature and simplifying integration into your measurement setup via a range of standard communication interfaces.

For more specific experimental requirements, we can offer tailored ³He systems designed to meet your needs.

Precise control of magnetic field and temperature

The **Heliox**VL and **Heliox**VT are designed to give ultra-low temperatures, while still operating safely in integrated into cryo-magnet systems – allowing access to the lowest temperatures and the highest fields.

The solution to rising helium costs

When deciding on a new system rising liquid helium costs are a key consideration. Through careful design and optimisation, the liquid helium consumption of the **Heliox**VL is minimised; when combined with an **Integra**AC recondensing liquid helium cryostat, this becomes almost zero.

Combining the **Heliox**VT with a **Teslatron**PT completely eliminates the need for liquid cryogens, giving a turnkey solution offering precise control of temperature and magnetic field for material and device characterisation.



Magnetic field configurations

	Field Requirement	Configuration	
	Up to 14 T	HelioxVT with TeslatronPT Cryofree® superconducting magnet system	 No requirement for liquid cryogens (or accompanying infrastructure) Complete turn-key solution for material characterisation
	Up to 21 T	HelioxVL or HelioxVT with Integra liquid helium cryostat	 Higher magnetic fields than a Cryofree system IntegraAC cryostat offers almost zero liquid helium consumption (at 4.2 K)

Visit nanoscience.oxinst.com/heliox or email nanoscience@oxinst.com

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

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