Custom Cryostats & Dewars

Built to order · Precise control

Precise temperature control and vacuum-insulated storage in one unit, built around your temperature range, volume, magnetic environment and cryogen.

Fully custom. −269 °C to room temperature, in any volume or size.

Precise control. Holds the set point to ±0.1 °C.

Any cryogen. Liquid helium, nitrogen, argon and more.

Applications

Research	Quantum and superconductor testing
Medical	Imaging and cryo-therapy
Industry	Materials and precision instruments
Aerospace	Space-environment simulation

Key specifications

Customisable	Temperature, volume, structure, environment
Cryogens	Liquid helium, liquid nitrogen and others
Strengths	Built to order, stable, full after-sales support

Custom Cryogenic Systems

Integrated · Smart · Turnkey

Complete systems from −269 °C to room temperature, combining cryogen storage, temperature control, level monitoring and recirculation for high-field, high-vacuum and cleanroom use.





Turnkey systems, built to order

All in one. Storage, temperature control, level monitoring and transfer in one system.

Built for you. Range, scale and control to order; suits high fields, vacuum and cleanrooms.

Smart control. Live temperature, level and pressure monitoring with automatic adjustment.

Applications

Research	Quantum computing, superconductor tests
Medical	MRI and cryo-therapy systems
Industry	Component testing, cryogen recovery
Aerospace	Space simulation, cryogenic propulsion

Key specifications

Modules	Storage, temperature control, level monitoring, shielding, transfer
Strengths	Highly customised, stable, easy to run

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POWER THE NEXT.
固芯科技 助力未来

Cryogenic Solutions

Non-Magnetic Dewars
Superconducting Level Meters
Custom Cryostats & Dewars
Custom Cryogenic Systems

Manufactured by Wuhan Cooler Technology Co., Ltd.

cooler

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Non-Magnetic Dewars

Cryogen storage for high magnetic fields

Vacuum-insulated vessels in non-magnetic stainless steel or composite, for liquid helium and nitrogen in MRI, MEG/MCG, SQUID and precision magnetic work.

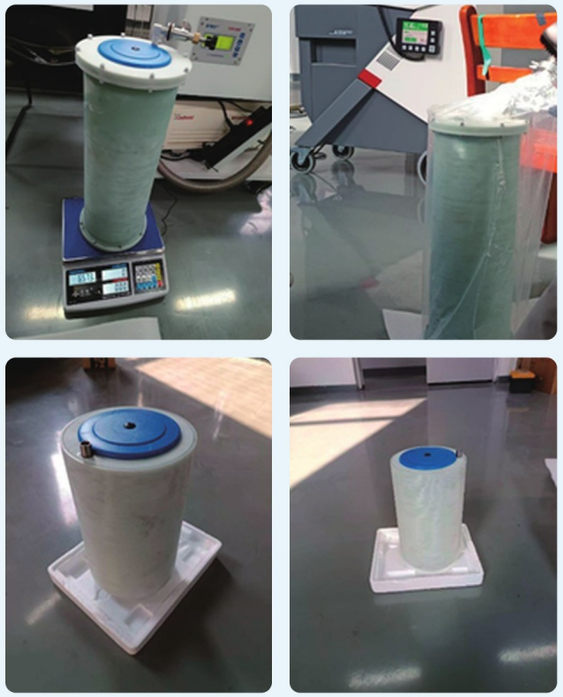
- **Truly non-magnetic.** No field disturbance, no magnetic pull.
- **Ultra-low boil-off.** Triple insulation cuts cryogen loss and cost.
- **Safe and robust.** Helium leak-tested; cold- and corrosion-resistant.

Applications

Medical	MRI magnet cryogen supply
Research	SQUID, low-temperature physics
Industry	NDT, helium recovery
Aerospace	Superconducting component tests

Key specifications

Material	FRP glass-fibre composite
Insulation	High vacuum, ultra-low boil-off
Cryogens	LHe (−269 °C), LN_2 (−196 °C)
Size	Made to order



Non-magnetic · Long hold time · Reliable

Superconducting Level Meter

2 K and 4.2 K versions

Precise liquid-helium level monitoring

Tracks liquid-helium level in real time using the zero-resistance effect of superconductors, reliably at −269 °C and in strong magnetic fields.

- **Millimetre accuracy.** 1 mm resolution, real-time output.
- **Built for extreme cold.** Rated to −269 °C, no icing or sticking.
- **Field-proof.** Non-magnetic; unaffected by strong fields.

Selected users · 200+ units in service

Chinese Academy of Sciences institutes, Hefei National Laboratory, China Spallation Neutron Source; Tsinghua, Zhejiang, Xi'an Jiaotong and Shandong universities; CSSC 724th and CETC 16th institutes.

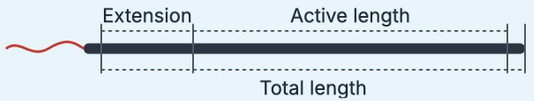
Applications

MRI magnets, quantum and superconductor labs, helium recovery and cryogenic engine testing.

Key specifications

Sensor	NbTi wire, non-magnetic sheath
Diameter	6, 8, 10 mm; others to order
Active length	Up to 3000 mm or more
Connectors	Lemo, CF, hermetic feedthrough
Compatibility	AMI and CMI meters and sensors
Lead time	30 days





Precise at every moment