

# ICE

## HTS TEST CRYOSTATS

0.8K to 300K

**A range of cryostats developed for high temperature superconductivity experiments.**

These high cooling power cryostats offer solutions for high current capabilities whilst maintaining low temperatures.

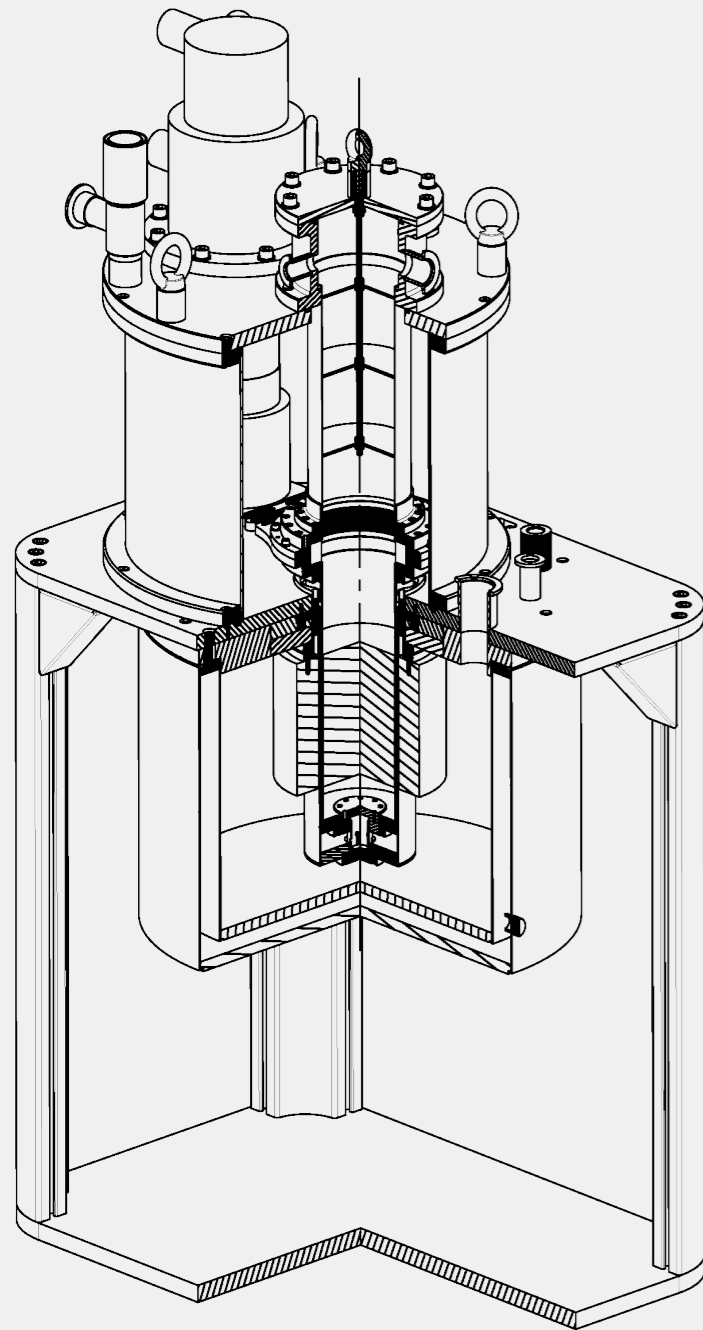


### DRY ICE<sup>20K</sup> with LN2 COOLED TAIL

The DRY ICE<sup>20K</sup> with LN2 COOLED TAIL provides a high pressure sample space at temperatures in the range of 20K to 500K. The system uses a single stage cooler for continuous running. The tail is designed to load into a nitrogen bucket, enabling faster cool down times of the test magnet.

#### KEY FEATURES

- Cool down time from room temperature to 20K in 90 minutes
- Continuous hold time
- Sample in exchange gas
- Base temperature: 14.5K
- Designed for easy sample rotation

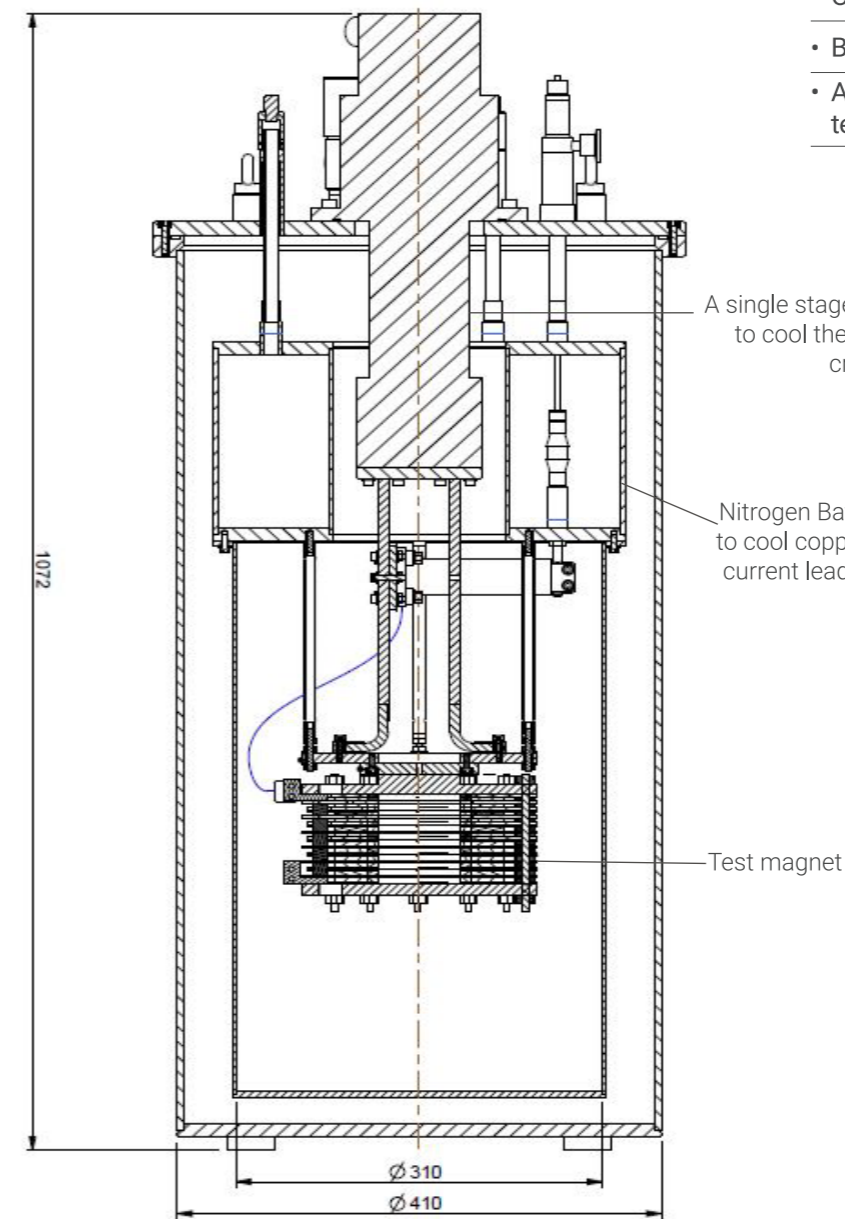


### DRY ICE<sup>20K</sup> with LN2 COOLED HIGH CURRENT LEADS

The DRY ICE<sup>20K</sup> with LN2 cooled high current leads uses a cold head to cool an HTS magnet whilst also utilising liquid nitrogen to pre-cool the **800Amp** current leads to allow very high critical current testing.

#### KEY FEATURES

- Large sample space for magnet
- Compact design
- Base temperature: 17K
- Adaptable for magnet or short sample testing



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## DRYICE<sup>1.5K</sup> 100mm

The DRYICE<sup>1.5K</sup> 100mm cryostat is designed to provide high cooling power to a large sample space making it the perfect cryostat for HTS short sample testing. The system features our patented Dual-Cool technology enabling fast cool down times to base temperature.

### KEY FEATURES ▶

- Cool down to 1.4K in less than 30 minutes
- More than 30mW of cooling power at 1.75K
- Base temperature: 1.3K
- Up to 100mm sample space inside magnet bore
- Special probes designed to get 100Amps of current to the sample space

'I am very satisfied with this system. In particular, the dual cooler configuration provides plenty of cooling power...it is clear that corners have not been cut with fitting this system out.'

Bulk Superconductivity Group,  
University of Cambridge

