

# ICE

## ICE<sup>CP</sup> 300mK Cold Probe



The ICE<sup>CP</sup> 300mK Cold Probe is a compact, fast turnaround insert available for top loading systems into a Variable Temperature Insert (VTI) or for continuous flow systems.

The probe utilises the VTI's capability of reaching 1.5K to condense the self-contained Helium 3 charge using a patented condensing method. The probe can be operated in any wet or dry system with the capability of running continuously at a temperature of 2K or below. For optimal performance we recommend using the probe with our DRYICE<sup>1.5K</sup> VTI Series.

<b>BASE TEMPERATURE</b>	280mK*
<b>SAMPLE COOLDOWN</b>	5 Hours*
<b>TEMPERATURE STABILITY</b>	± 5mK below 1K, ± 10mK below 10K, ± 20mK between 10-50K, ± 50mK between 50-100K, ± 100mK about 100K
<b>SAMPLE SPACE</b>	Options for Ø 20, 32, 50, 56, 70 or 100mm
<b>DIAGNOSTIC WIRING</b>	24-way Fischer
<b>CUSTOMER DC WIRING</b>	Constantan, Manganin or Copper looms fitted on request
<b>COAX</b>	SS, SC, C, BeCu and NbTi available. Other COAX available on request.
<b>OPTICAL FIBRES</b>	Available with FC-APC feedthroughs
<b>ACCESS TO SAMPLE SPACE</b>	Top Loading Probe
<b>HOLD TIME</b>	Up to 100 hours (50mm probe)
<b>SAMPLE ENVIRONMENT</b>	Split-pair, 2D and 3D vector rotate and solenoid magnet options available

\* with fixed sample holder