

## He-3 Sample Probe (300 mK)

### Specification for 22mm Helium-Three Insert

<sup>3</sup> He capacity	Total <sup>3</sup> He gas volume 1.5 STP litres
	Working volume in normal use approx 1.0 STP litres
Initial Cooldown time	2 hours from room temperature sample change to <sup>3</sup> He condensation temperature under standard cryogen-free VTI operating conditions
Recondensation time	25 minutes to condense 90% of <sup>3</sup> He charge and cool pot to below 2K
Performance	24 hours at 285mK with zero load
	12 hours at 340mK with 25 $\mu$ W load
	3 hours at 550mK with 185 $\mu$ W load