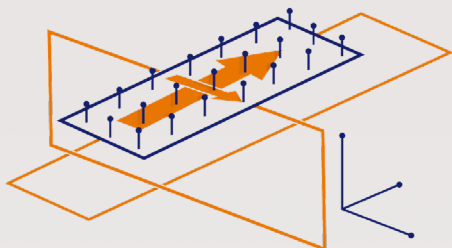


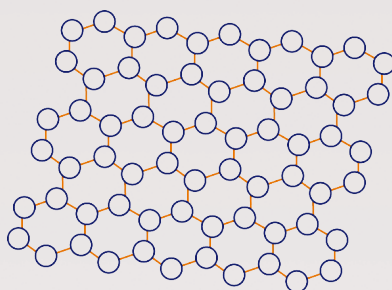
## KelvinoxJT®

A dipstick-style dilution refrigerator insert using Joule-Thomson condensation, compatible with wet or dry cryostats.

### Electrical Transport Measurements



### Low Dimensional Physics



### Spintronics



- Compatible with our Cryofree® TeslatronPT, our wet Integra magnet systems, any liquid helium transport dewar or any VTI with a sample tube diameter of at least 50 mm
- Automated gas handling system with software for data visualisation and remote control
- Inner vacuum chamber (IVC) with automatic exchange gas control
- The IVC is sealed using vacuum grease or CAF paste (no Indium is required)
- One spare 6 mm line-of-sight port for installing experimental wiring.



## Options and accessories

### Flexible coax option:

- Two flexible S1 stainless steel coaxial cables, from room temperature to the mixing chamber suitable for low frequencies
- Suitable for signals up to MHz frequency
- Fisher connector at room temperature.

### DC Wiring Option:

- 24-way constantan loom with 12 twisted pairs wired to the mixing chamber
- 24-way Fisher connector at room temperature.

## Key Specifications

Base temperature	25 mK in a VTI or Teslatron 40 mK in a helium dewar
Base temperature stability	$\pm 1$ mK
Temperature control range	25 mK to 300 K in cryogen free system
Cooling power at 100 mK	$\geq 20$ $\mu$ W
Sample space	Inner diameter 43 mm x length 180 mm
System cooldown	From room temperature to $< 100$ mK typically 6 hours in liquid cryogen systems, 12 hours in cryogen free systems