

Cryogen-free Spectroscopy NMR

- ▶ Cryogen free
- ▶ Compact
- ▶ Vibration tolerant
- ▶ Robust, safe and easy to site

- ▶ Scaleable NMR magnet systems starting at 200 MHz
- ▶ Compact design to allow freedom of location
- ▶ Suitable for in-line analysis of production processes
- ▶ Standard 54 mm warm bore to work with off-the-shelf probes



4.7T Superconducting Shielded Magnet System

Room temperature bore	54 mm
5 gauss stray field line	Within surface of magnet cover
LN2 refill interval	N/A
LHe hold time	N/A
Helium level sensor	N/A
Magnetic field stability	<10 Hz/hour (target)

Utility and Installation requirements

Power consumption	<5 kW, 3-phase, 50/60 Hz
Water requirements	~4 lpm @ <32 °C
Floor space and weight:	
– Superconducting magnet	<200 kg, 550 mm (W) x 700 mm (D) x 950 mm (H)
– 19" rack-mounted magnet power supply and closed cycle refrigerator compressor (located up to 10 m from magnet)	<150 kg, 600 mm (W) x 900 mm (D) x 1150 mm (H)
Ambient temperature	15 – 30 °C ± 5 °C
Ceiling height (min.)	<2 m
Cryogen-related equipment (cryogen handling equipment, helium quench extraction system, dewar storage space)	N/A



HTS-110 Limited

69 Gracefield Road, PO Box 31-310
 Lower Hutt, New Zealand
 T +64 4 931 3000 F +64 4 931 3344
 E info@hts-110.com
 www.hts-110.com

