



# Magnetic Measurements

## Thermal Demagnetiser MMTDSC



### *Fully automated 24 sample Super Cooled Thermal Demagnetiser*

**Fully Automatic** operation with simple programmable heat/soak/cool rates. No need to move hot samples or a hot furnace element. Battery back up retains programme.

**Very Fast cycle time.** The new **MMTDSC** with full sample load will typically heat, hold for 20 minutes and cool to below room temperature in less than 50 minutes. The MMTDSC is unique in that it uses a special cryogenic cooler to provide low temperature cooling air to the oven allowing it to cool rapidly to below room temperature. Ideal for palaeomagnetic directional and Thellier intensity analysis

**High precision temperature control.** The new **MMTDSC** temperature controller is accurate to 1°C with a resolution of 0.1°C. The new controller is a programmable proportional controller (not ON/OFF). Temperature repeatability is 0.2°C

**Ultra low thermal gradients.** Typical maximum deviation over 24 sample region at 500°C is +/- 8°C. For partial load of 20 samples it is only +/- 4°C. Variations in sample load and rock type will alter the thermal characteristics of the furnace.

**3 year warranty.** Precision made we confidently offer a 3 year warranty as standard.

**Robust inconel sample holder** as standard. Special holders can be made to suit your requirements.

**Automatic degaussing** 4 layer Mu-metal shields with our special electronic activation to improve degaussing and overall performance. Samples always in a field <10nT (typically <3nT).

**High level of Safety.** Thermal switch to provide protection against mechanical or electronic failure.

**Calibrated field solenoid** for TRM's, ideal for palaeointensity (Thellier) experiments.

**Three cooling rates,** Very fast cool for rapid processing of palaeomagnetic samples (700°C to below room temperature in 19 minutes), Fast cool using room temperature air and slow cooling (24 hours) for palaeointensity and archaeointensity cooling rate experiments.

**Optional Extras.** Constant current power supply, Vacuum pump and vacuum sample holders.

**220/240V.** The **MMTDSC** consumes 2.7 KVA

**Dimensions** Main oven 450 x 460 x 1600 mm, cooler unit 530 x 700 x 1130 mm

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