



# Magnetic Measurements

## Thermal Demagnetiser MMTD24



### *Fully automated 24 sample 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. If mains power fails programme will continue once power is restored.

**Fast cycle time.** The new **MMTD24** with full sample load will typically heat, hold for 20 minutes and cool to within 20°C of room temperature in less than 50 minutes.

**High precision temperature control.** The new **MMTD24** 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).

**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) during heating and cooling.

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

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

**Two cooling rates,** Fast cool for rapid processing of palaeomagnetic samples, slow cooling (24 hours) for palaeointensity and archaeointensity cooling rate experiments

**Constant current power supply,** for TRM's available as optional extra.

**Vacuum pump and vacuum sample holders,** 2 stage vacuum pump and fittings available as optional extra together with quartz vacuum sample holders.

**220/240 volt operation** The **MMTD24** consumes 2.7 KVA

**Dimensions** 450 x 460 x 1600 mm

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