

Magnetic Measurements Thermal Demagnetiser MMTD

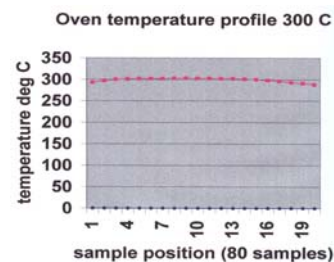


Fully automated 80 sample Thermal Demagnetiser

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 **MMTD80** with full sample load will typically heat, hold for 20 minutes and cool to within 20°C of room temperature in less than 80 minutes.

Very low thermal gradients. Specially designed radiation shields control thermal gradients inside the oven. Typical maximum deviation over 80 sample region at 300°C is 12°C. For partial load of 60 samples it is only 3°C. Variations in sample load and rock type will alter the thermal characteristics of the furnace.



Robust inconel sample holder and controlled atmosphere (gas and vacuum) as standard. The **MMTD80** has 4 parallel rows of 20 x 1" diameter samples. Special sample holders can be made to suit your requirements.

Automatic degaussing of 4 layer seamless, closed mu-metal shields. Typical residual field less than 5nT. No need to fix in East/West axis as shields are closed at the ends.

High level of Safety. Secondary 'policeman' temperature controller, two Pt/PtRh thermocouples and mechanical thermal switch provide protection against mechanical or electronic failure.

Calibrated field solenoid for TRM's, ideal for palaeointensity experiments.

Constant current power supply, for TRM's available (**MMTDCCPS**).

Vacuum pump, 2 stage vacuum pump and fittings available (**MMTDVVP**).

Low field Mu-metal store, for storing samples in low fields available (**MMTDLFMS**).

240 and 120V models, no need for transformers. **MMTD80** consumes 2.8 KVA

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