

# S&A

## 4220MR MECHANICAL REFRIGERATION CHAMBER FOR PARAMETRIC TESTING



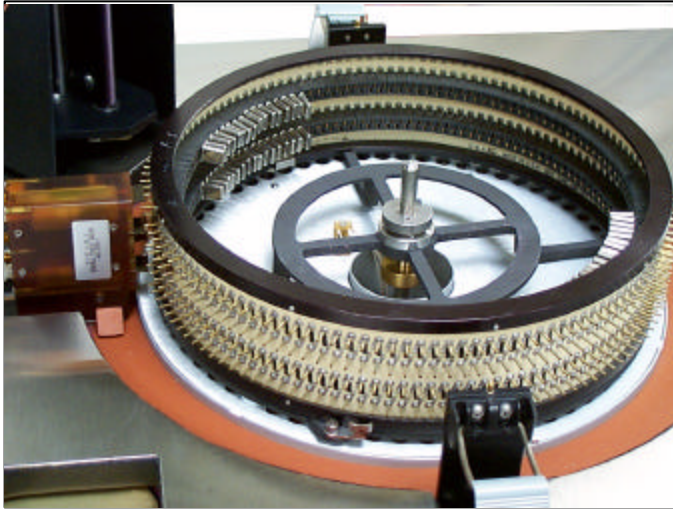
- **Stability:** +/- 0.1 degree C including effects of line voltage, ambient temperature and aging.
- **Uniformity:** +/- 0.2 deg. C component area
- **Temperature range:** -55 C to + 150 C (+200°C max. temperature optional)
- **Rate Change:** See figures 1A and 1B
- **Energy Use:** 6-7 KVA typical depending on temperature

Specifications are valid for the chamber equipped with a four inch high cover, a component support wheel and a dual row crystal test wheel installed.

- **Coolant:** Water Cooled Mechanical refrigeration: More energy efficient, improved reliability, lower heat load in working environment. (Air cooled refrigeration unit optional.)
- **LN2 or CO2:** Coolant boost options available
- **Programmable keyboard:** Programmable keyboard allows temperature to be set, stepped (at user-defined increments), slewed (at user-defined rates) and cycled
- **Remote Operation:** Chambers may be remotely controlled via IEEE bus or RS232C port
- **Flexible Tooling:** Can be easily customized for testing needs

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Chamber cover removed exposing rotating fixture. Test heads may be fixtured from 2 to 48 contacts. Up to 254 parts may be tested in one chamber (depending upon components tested).

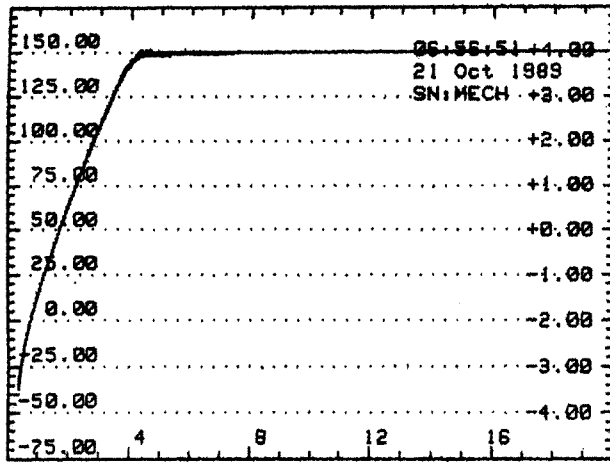


Figure 1A - Temperature transition -60 to + 150deg. Celsius.

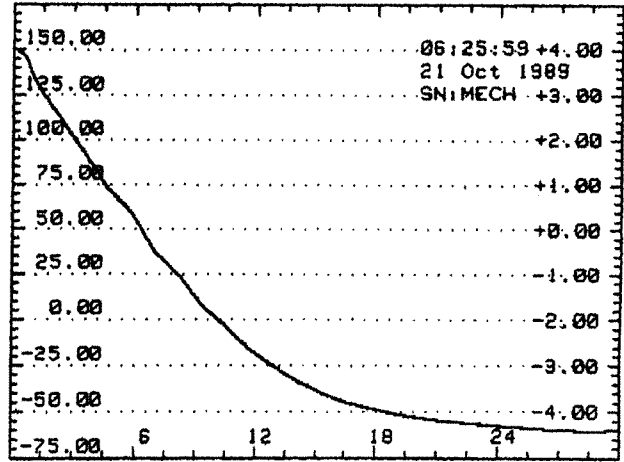


Figure 1B - Temperature transition + 150deg. to - 60 Celsius.

Figures 1A and 1B show the temperature transition of the 4220 chamber from one end of the temperature range to the other.

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