

# S&A

## 4220MR MECHANICAL REFRIGERATION CHAMBER FOR PARAMETRIC TESTING



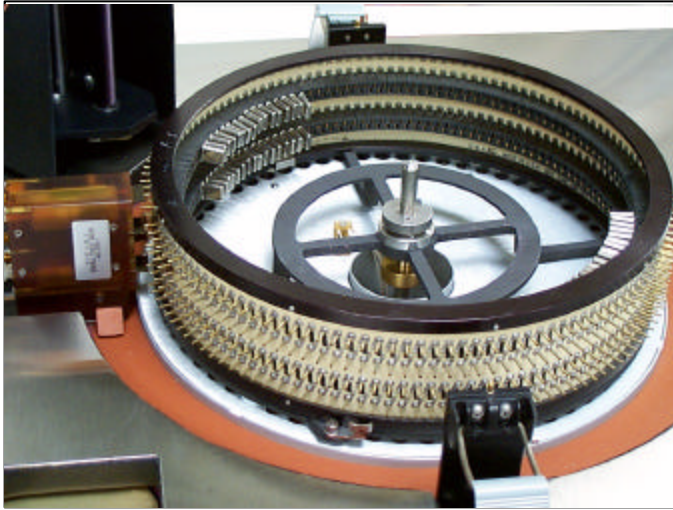
- **Stability:**  $\pm 0.1^{\circ}$  C including effects of line voltage, ambient temperature and aging
- **Uniformity:**  $\pm 0.2^{\circ}$  C component area
- **Temperature Range:**  $-55^{\circ}$  C to  $+150^{\circ}$  C ( $+200^{\circ}$  C max. temperature optional)
- **Rate Change:** See figures 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.)
- **LN<sub>2</sub> or CO<sub>2</sub>:** 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).

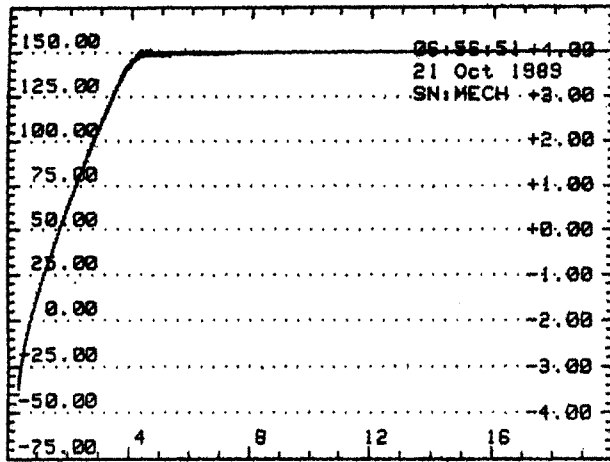


Figure 1A: Temperature transition -60° to +150°C

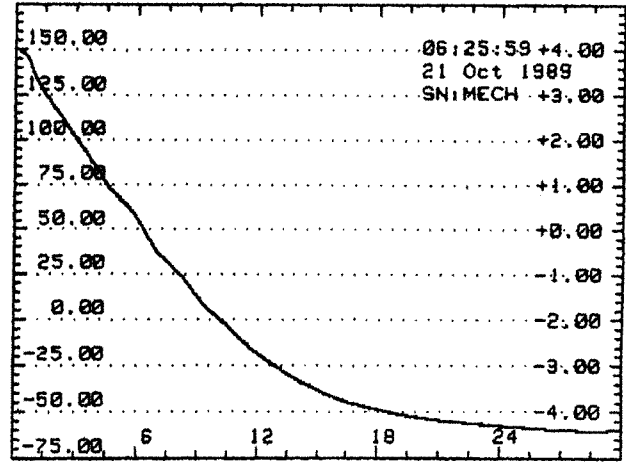


Figure 1B: Temperature transition +150° to -60°C

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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