



# LARGE COOLER COMPLETES 1 YEAR OF ENDURANCE TEST

Coolers & Cryogenics

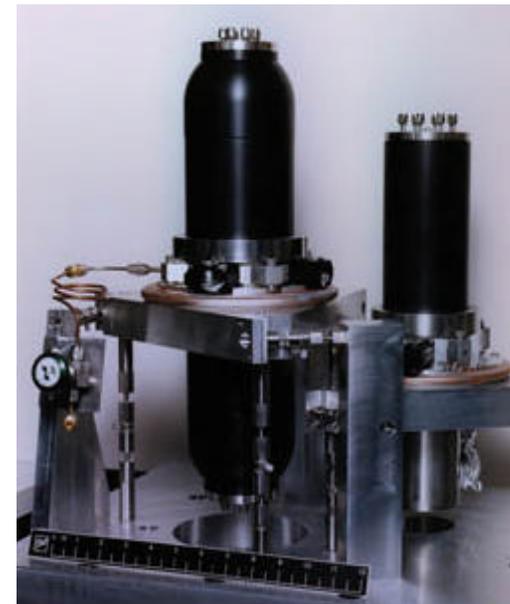
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## ■ KEY FEATURES

- Unique radial position sensors measure seal clearance during operation
  - Verifiable reliability, a critical capability for operational instruments
- Multiple stages produce temperatures as low as 20 Kelvin, with large cooling capacity
- Built in force transducers ensure low residual vibration
- Faraday shield provides immunity to EMI
- Selected for HIRDLS on EOS Chemistry

## ■ 1998 Accomplishments

- Completed 1 year of endurance test with no degradation



**Ball cooler in Goddard  
6-axis force dynamometer**