



# 15ft TVAC Chamber Capability

- Description
  - 15ft  $\Phi$  Spherical “Dirty” TVAC Chamber with ~78in  $\Phi$  clear entry
- Environment Capability
  - Vacuum:  $1 \times 10^{-6}$  torr (ultimate),
  - Atmosphere: Air ( $\text{GN}_2$  Repressurization planned)
  - Thermal Range:  $-180 \pm 5^\circ\text{C}$  to  $+120 \pm 5^\circ\text{C}$  (Thermal shroud temperatures)
  - High channel count data feedthroughs
  - High power feedthroughs available
  - Max platform load: 4,000 lb
  - Test article operation on 48” x 96” regolith bed in chamber with surface interactions with regolith to depths down to 8 inches
  - Icy regolith drill tube for drilling operations to depths down to 1 meter
- Previous tests: used for fuel cell, electric APU during Shuttle, Cryogenic propellant storage, Apollo lunar rover tire