

Surplus Lab Equipment For Sale

Ultra-High Vacuum System-

For Simulated Space Environments

FEATURES

Vacuum Chamber
Pumping System
Temperature Control
Monitoring and Control System
Safety System; interlocks

CAPABILITIES

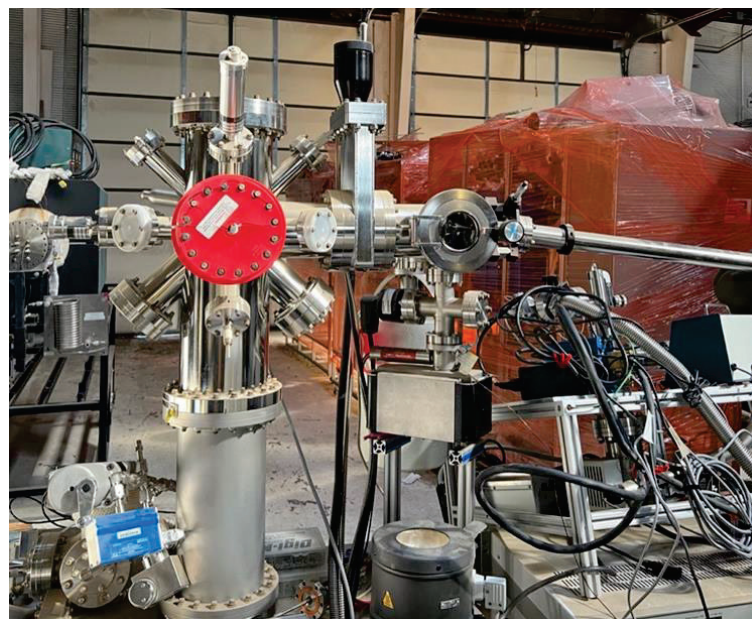
Radiation simulations
Solar simulation

POSSIBLE EXPANDED CAPABILITIES

Motion Simulation
Material outgassing studies
Integration with other simulation
systems; vibration
electromagnetic interference etc.



- Ultra-high vacuum (UHV) system designed to simulate the space environment of a geosynchronous satellite; This includes considerations for vacuum, temperature, radiation, and other factors.
- Base Pressure: 1×10^{-9} to 1×10^{-10} torr
- Simulated Space Environment
 - Electron Bombardment
 - Protons & Atomic Hydrogen
 - Ultraviolet Radiation



System Components

MOLECULAR DIFFUSION PUMP

Pfiffer

OXYGEN ION GUN

SPECS IQE 11-A

ULTRAVIOLET RADIATION

SPECS Scientific

Instruments/Kurt J. Lesker
Model FG 15/49

Excited helium, simulates the UV radiation from the sun

ELECTRON BOMBARDMENT

SPECS Scientific Instruments/Kurt J. Lesker Model FG 15/49 flood gun

The energy of the electrons can be varied by varying the potential on the sample and the accelerating potential of the electron gun

PROTONS AND ATOMIC HYDROGEN

SPECS Scientific Instruments/Kurt J. Lesker Model IQE 11/35

The proton beam is produced in the ion source by electron beam dissociation of molecular hydrogen, H_2 . The proton beam is accelerated towards the sample using an electrostatic potential.

