

LACO TECHNOLOGIES

THERMAL VACUUM TESTING FOR SPACE SIMULATION

LACO Technologies designs and manufactures this Thermal Vacuum Testing for Space Simulation System that simulates the pressure and temperature environments of space. Through the use of high vacuum pumps, thermal platens and shrouds, the Thermal Vacuum Testing System is optimized for creating an environment where testing and validation of components and subassemblies can successfully replicate the demands and stresses that occur in space.



FEATURES

- VC-2000 control system (99 recipes of 99 steps each)
- Temperature cycling system
- Thermal control via conduction using a fluid cooled/heated platen.
- Ramping ability to avoid thermal shock
- Dry vacuum pump to maintain a pristine chamber environment
- Thermocouple and power feedthroughs
- Data logging ability to an SD card each half second or via a serial port for remote datalogging.



SPECIFICATIONS

- 24" x 24" horizontal, stainless steel chamber with dished end and door and fixed, thermostatically controlled platen
- Ultimate pressure capability ($<1 \times 10^{-6}$ torr)
- Huber Unistat 705 with temperature range (-75°C to 250°C)
- 4 blanked off ISO 160 ports

