



SmallSAT Thermal Vacuum Systems

Introducing Dynavac’s family of SmallSAT Thermal Vacuum Systems, the ideal test solution for small space-bound devices. Our systems ensure the survivability of your device through the most extreme conditions of flight, providing you with the confidence that your technology will perform flawlessly.

- **Vacuum Chambers:** Dynavac’s renowned craftsmanship sets the highest quality standards for chamber construction, protecting your investment for years to come.
- **Robust Pumping Systems:** Our systems provide the most efficient and cost effective solutions for high vacuum pumping. Various combinations of mechanical pumps, turbopumps, and cryopumps ensure pressures down to 1×10^{-6} Torr.
- **Thermal Control:** With two options for thermal control, you can replicate low-earth orbit to the extreme temperatures of deep space. In combination with our shroud and platen designs, we provide an effective method for conditioning test articles.
- **Simplistic Operation:** Designed for ease of use, our systems require minimal setup to perform a complete thermal vacuum test with confidence.
- **Unmatched Quality and Performance:** Every system is backed by the Dynavac brand of quality and customer commitment, ensuring support when you need it.



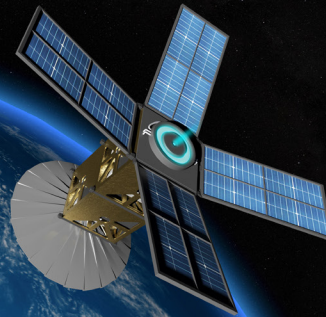
System Models:

Model	Chamber Dimensions	Dimensions (w x d x h)	
		Working Volume w/platen only	Working Volume w/platen & shroud
1200	12" x 12" x 12"	10" x 10" x 8"	N/A
2400	24" x 24" x 24"	24" x 24" x 20"	20" x 20" x 18"
3600	36" x 36" x 36"	36" x 36" x 30"	27" x 30" x 28"

Creating the environment for your mission success

From Dynavac, the most respected name in space simulation systems

SPECIFICATIONS



Thermal Control Options

Liquid nitrogen with electric heaters (LN2 Models) ■ -180°C to 150°C

Closed loop chiller (MR-1 Models): ■ -70°C to 80°C

Closed loop chiller upgrade (MR-2 Models) ■ -70°C to 150°C

Vacuum Chamber

■ Stainless steel construction, hinged door with 4" viewport, supported on mobile frame

Pumping system

■ Base Pressure: 1×10^{-6} Torr* w/ dry mechanical pump, turbomolecular pump, chamber repressurization system
*Operation with optional scavenger panel

Platen

■ Aluminum construction with mounting holes

Shroud

■ Aluminum construction, optically dense enclosure, interior painted with solar absorbing paint

Spare ports

■ (2) ISO100
■ CF 2.75"
■ Additional ports upon request

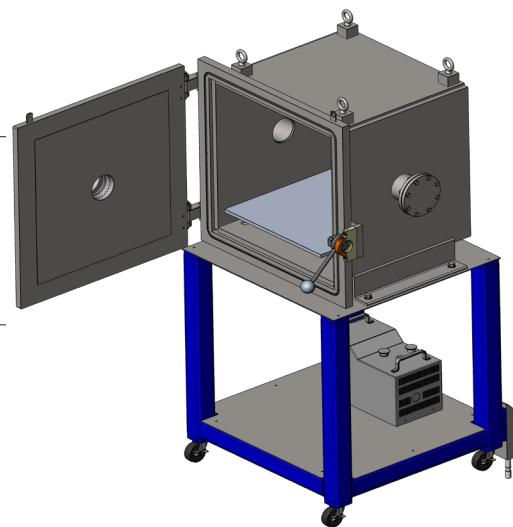
System control

■ On-board controllers for pumping and thermal system operation

- Automatic system pumpdown
- Thermal control with recipe profile capabilities
- Thermal platen/shroud temperature readings

Options and Upgrades

■ Cryopump
■ Scavenger panel for enhanced water-vapor pumping
■ TC Data Acquisition System
■ Installation, startup, and training
■ Annual maintenance contracts



Why Choose Dynavac?

With over 40 years of experience and a reputation for excellence, Dynavac thermal vacuum systems are trusted by aerospace organizations worldwide. Our commitment to innovation and quality ensures that you receive the best testing solutions for your spacecraft.

Dynavac
40 Years of Innovation

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