

VACUUM OVEN AND BAKEOUT SYSTEMS



ABBESS® INSTRUMENTS AND SYSTEMS FOR DEVELOPING
LEADING TECHNOLOGIES, INDUSTRIAL METHODS
& PROCESSES

Configurable systems, designed to meet your exact testing needs, Abbess TVAC Solutions offer the power and flexibility of a custom system, while providing the cost-efficiency, convenience, and quick lead times of a standard solution.



TYPICAL FEATURES AND CAPABILITIES

integrated system solution for testing environments



System Sizes:

- 18" Cube
- 24" Cube
- 36" Cube
- 48" Cube
- Larger and Custom dimensions available upon request.

Standard Specs:

- Control temperature setpoints and ramp rates from ambient to +200°C
- Vacuum levels down to 10⁻⁷ torr range
- Spare ports and with multiple feedthrough options
- Calibrated vacuum gauges
- Roughing vacuum pump
- Turbo pump with optional gate valve and bypass pumping setup
- Vent and purge valves
- Molecular Getters to aid ultimate vacuum
- TQCM and RGA's available
- Vacuum Cycle Controller with:
 - Customizable recipes
 - Full integration with valves and gauges
 - Automated vacuum and temperature control
 - Data logging and remote access

- Thermal capabilities of Ambient to +200°C

- Bakeout and Degassing Functions

- Qualification of hardware

- Bakeout and Degassing Functions

- Launch/Re-entry Testing

- TQCM and RGA Integration

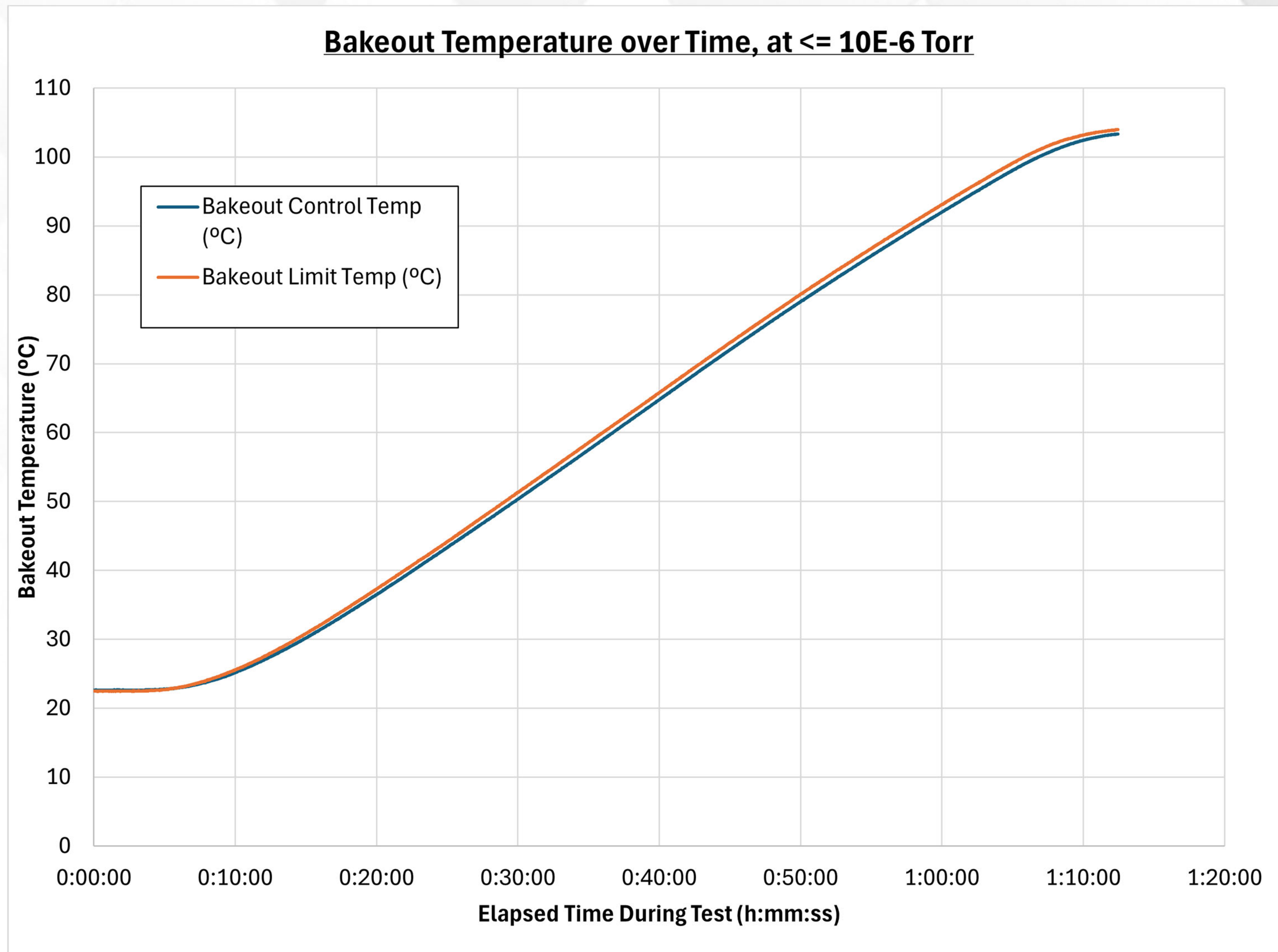
- NASA's GSFC (GEVS) Standards

- SMC Standards

- ASTM & MIL Standards



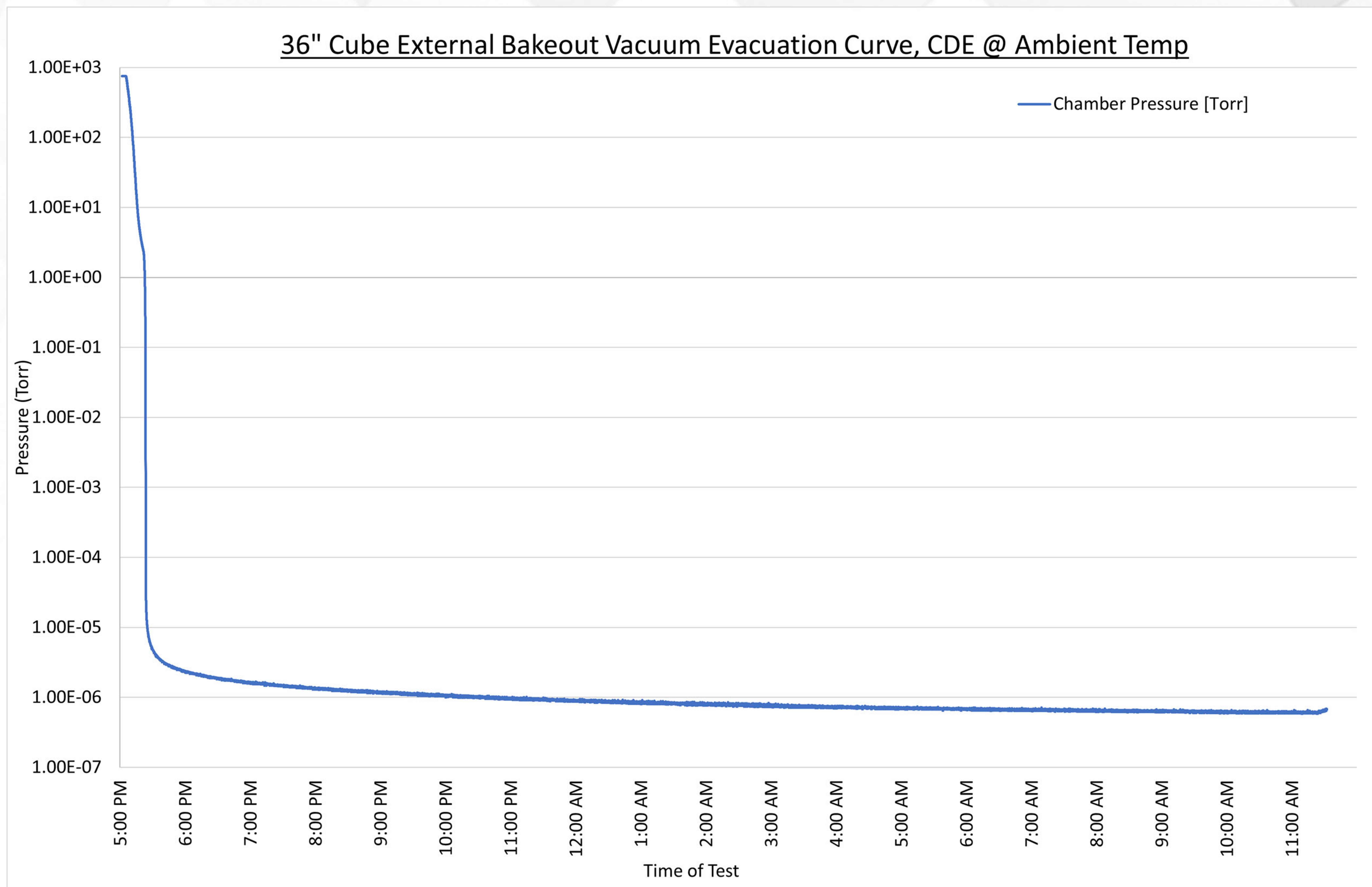
THERMAL TEST DATA



Your system will feature graphs displaying the actual performance of your specific instrument. The sample graph shown here is based on real test data from various TVAC configurations.

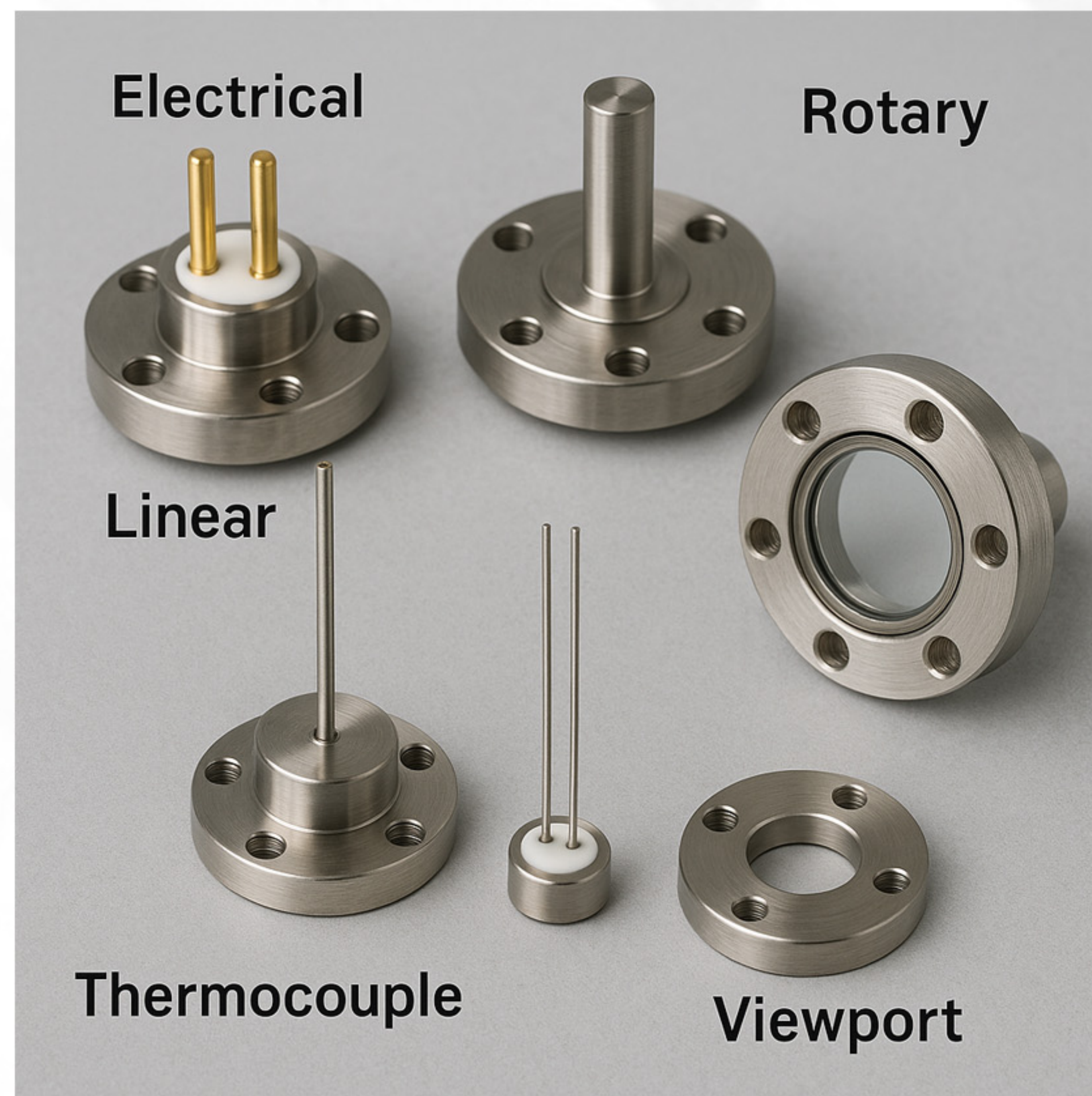


EVACUATION TEST DATA



Your system will feature graphs displaying the actual performance of your specific instrument. The sample graph shown here is based on real test data from various TVAC configurations.

Vacuum Feedthroughs



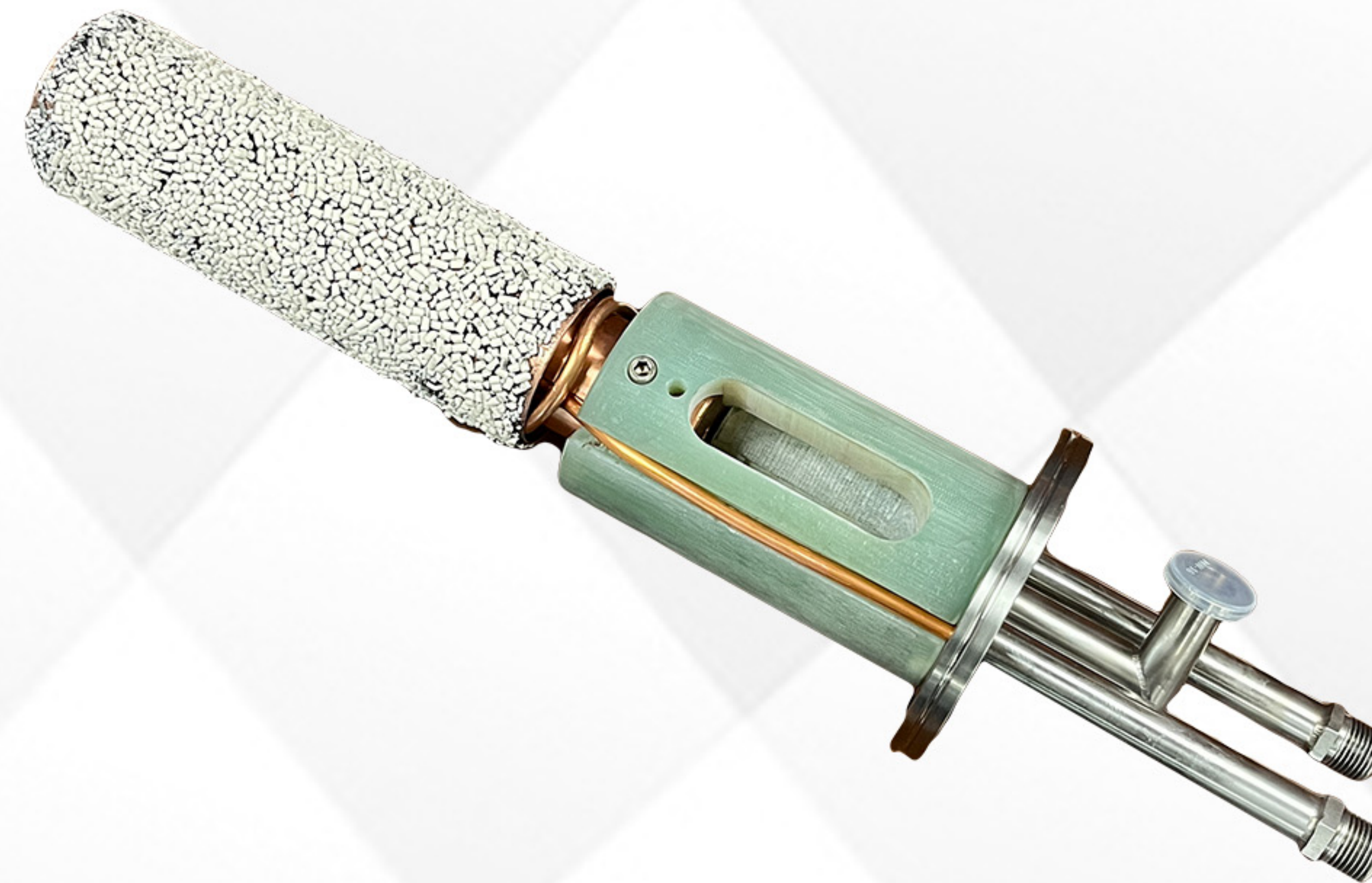
Vacuum Compatible Lights



Available in two sizes: 30" and 17"

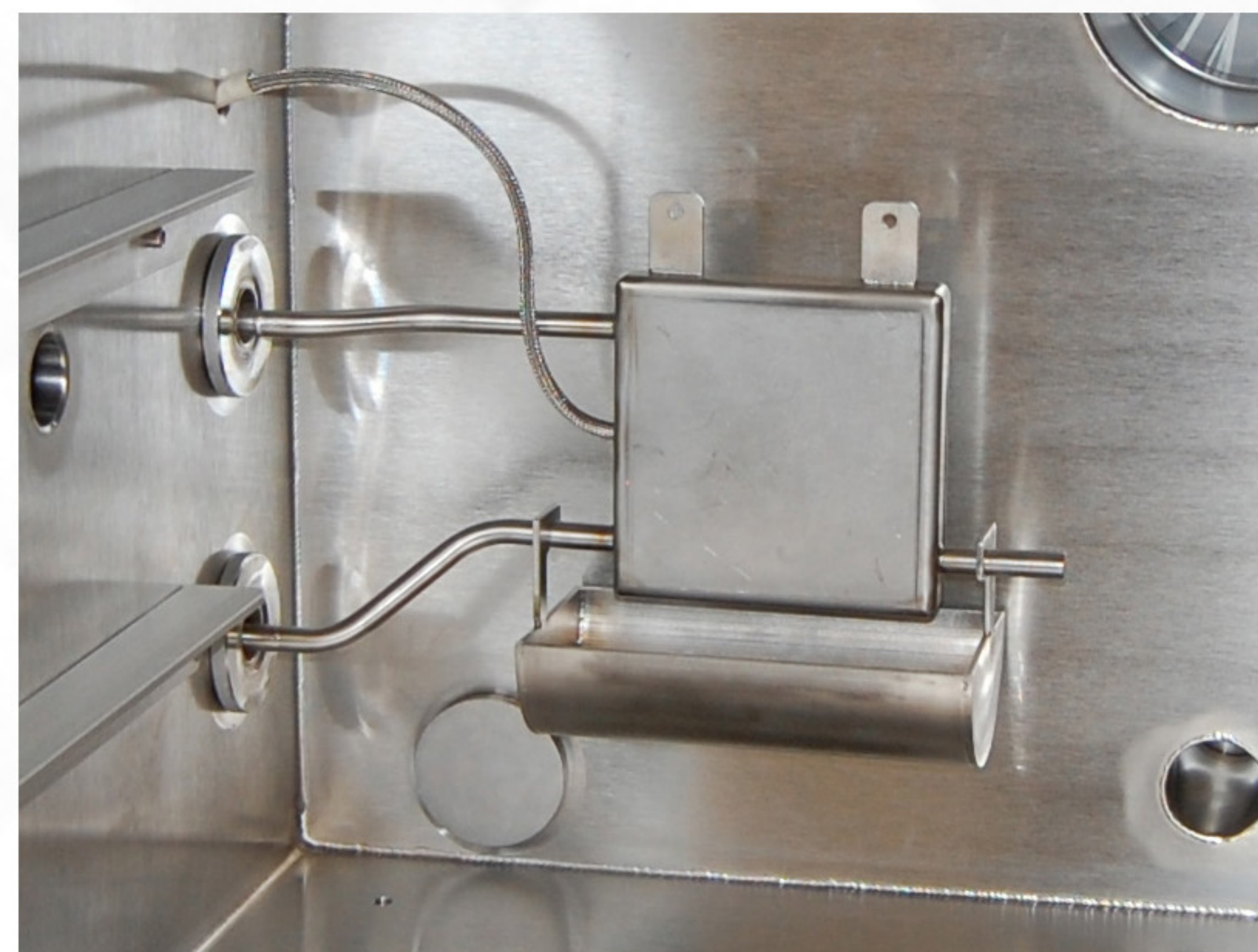
- Operating Pressure: Ambient to $10E-7$ Torr
- Operating Temperature Range: -190°C to $+50^{\circ}\text{C}$
- Max Storage Temperature Range: -190°C to $+120^{\circ}\text{C}$

Ln2 Cold Finger



- Different sleeve materials are available depending on your application.

Ln2 Scavenger Plate



- When testing spacecraft or equipment under the vacuum and thermal conditions of space, the scavenger plate helps absorb any outgassing from materials inside the chamber.

Standard Altitude (Vacuum) Control System



- Included with all thermal vacuum systems
- Customizable recipes
- Full system integration
- Automated vacuum & temperature control
- Data logging