

THERMAL ALTITUDE TEST CHAMBERS



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 and Options:

- Control temperature setpoints and ramp rates from -180°C to +200°C
- Pressure control from Ambient to 250,000 feet
 - Rapid decompression options are available
- Spare ports and with multiple feedthrough options
- Calibrated vacuum gauges
- Roughing vacuum pump
- Clear view acrylic door or metal door with viewport (temperature dependent)
- Vent and vacuum valves
- Vacuum Cycle Controller with:
 - Customizable ramp, soak, and dive profiles (rapid decompression capable)

- Thermal capabilities of -190°C to +200°C

- Bakeout and Degassing Functions

- Qualification of launch hardware

- ASTM Standards

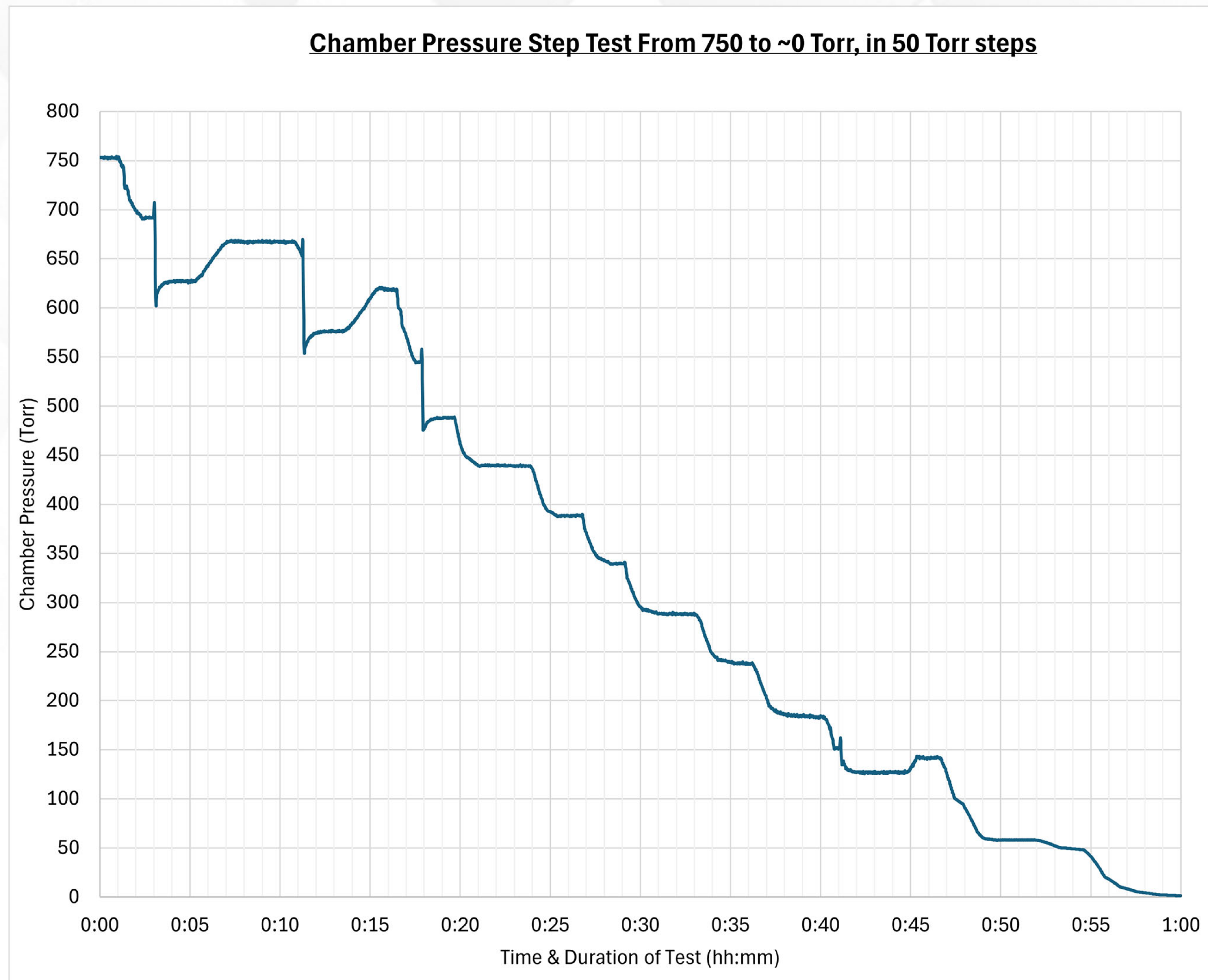
- SMC Standards

- MIL-STD-810-G Standard

- Custom PLC's are available



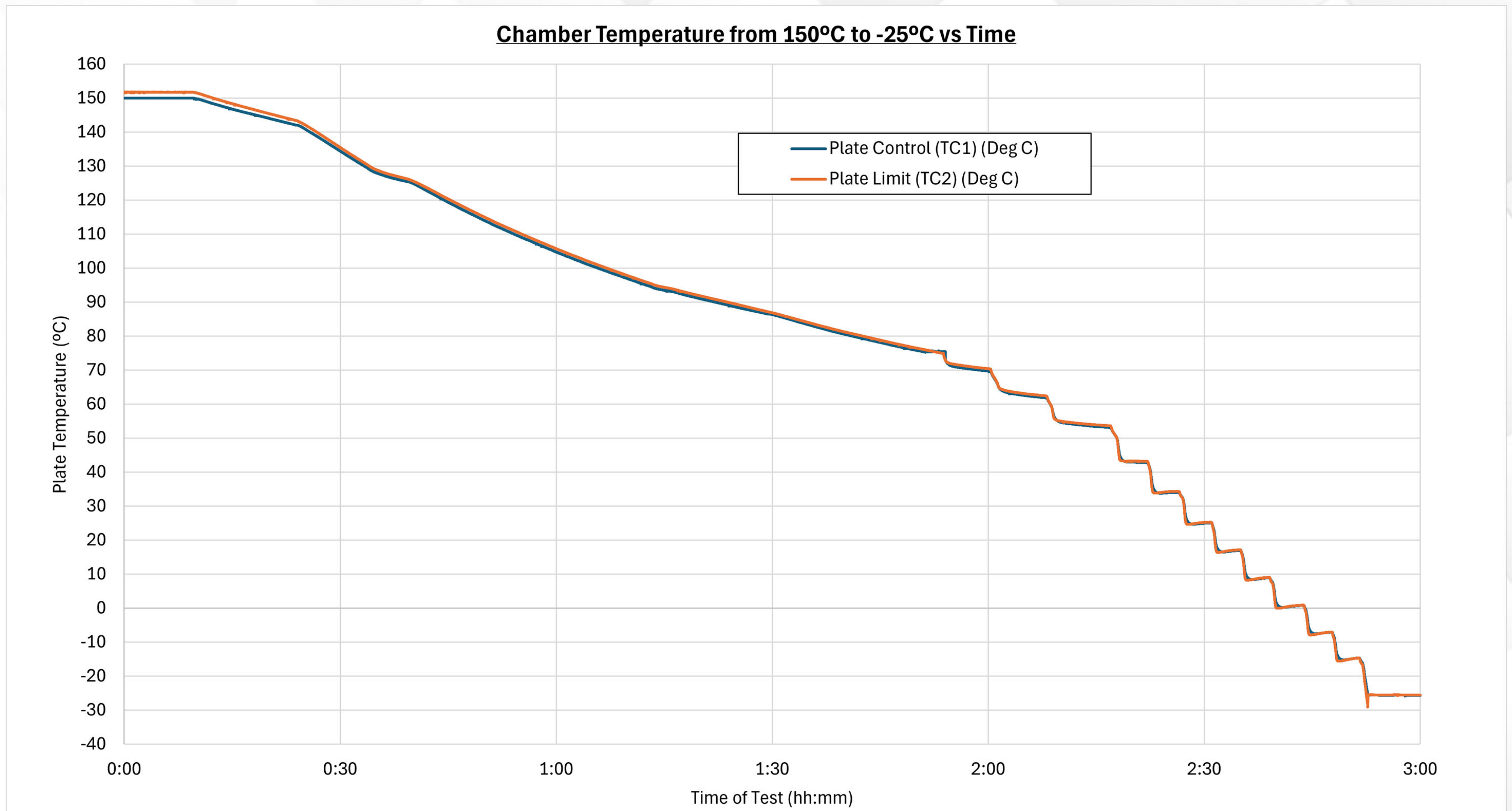
ALTITUDE (PRESSURE) TESTING DATA



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.

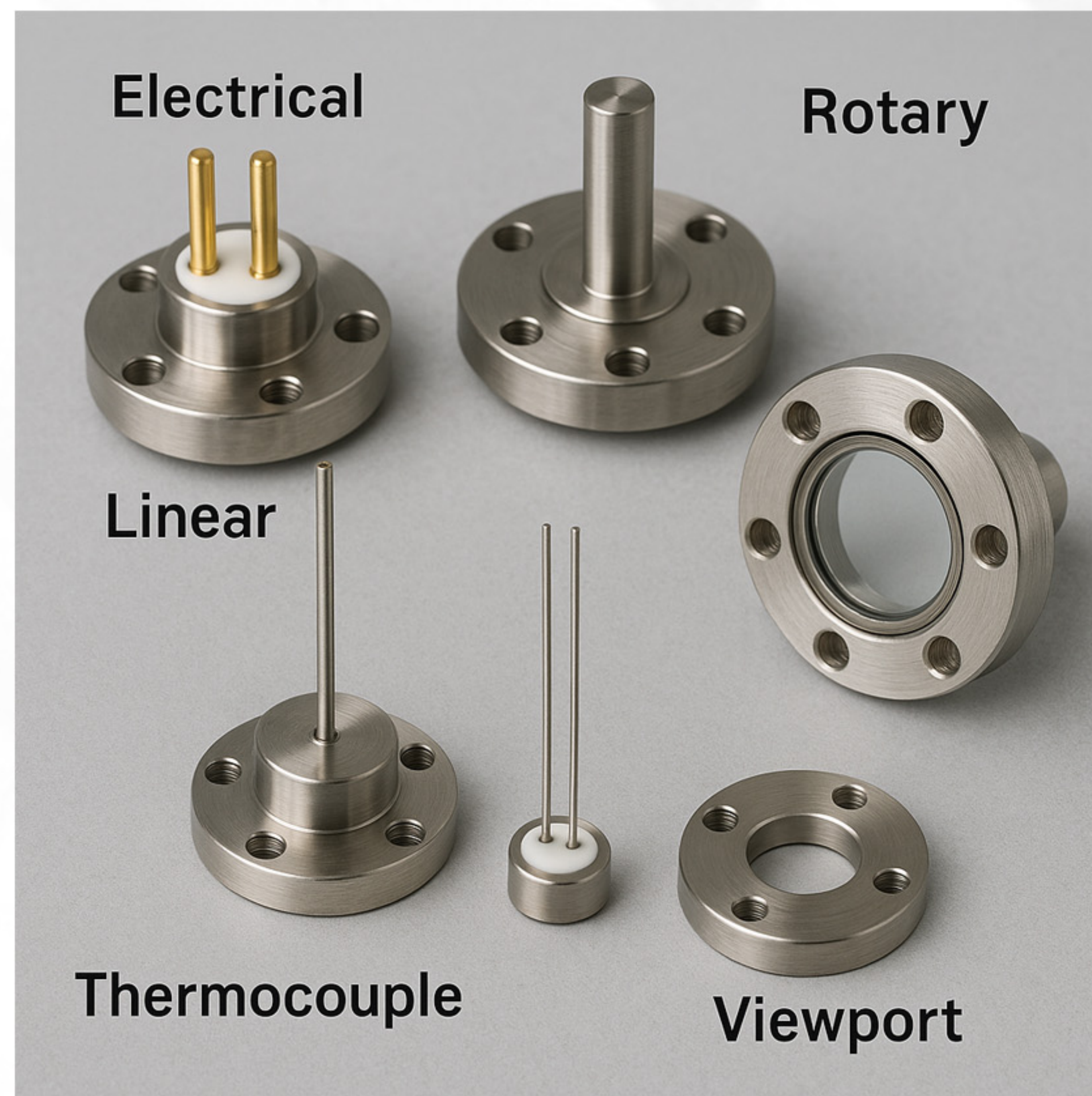


THERMAL TEST DATA

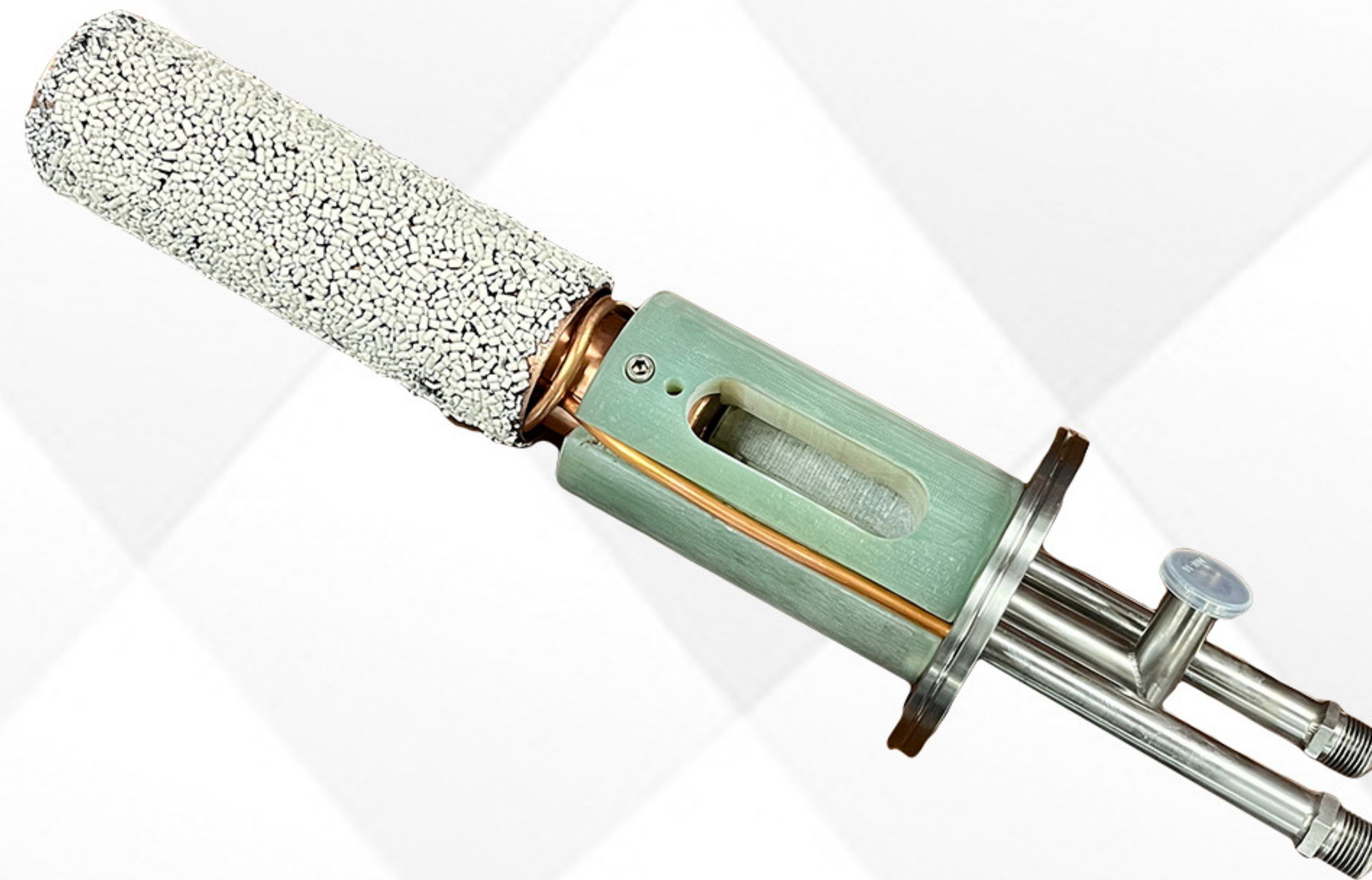


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Vacuum Feedthroughs



Ln2 Cold Finger



- Different sleeve materials are available depending on your application.

Standard Altitude (Vacuum) Control System



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

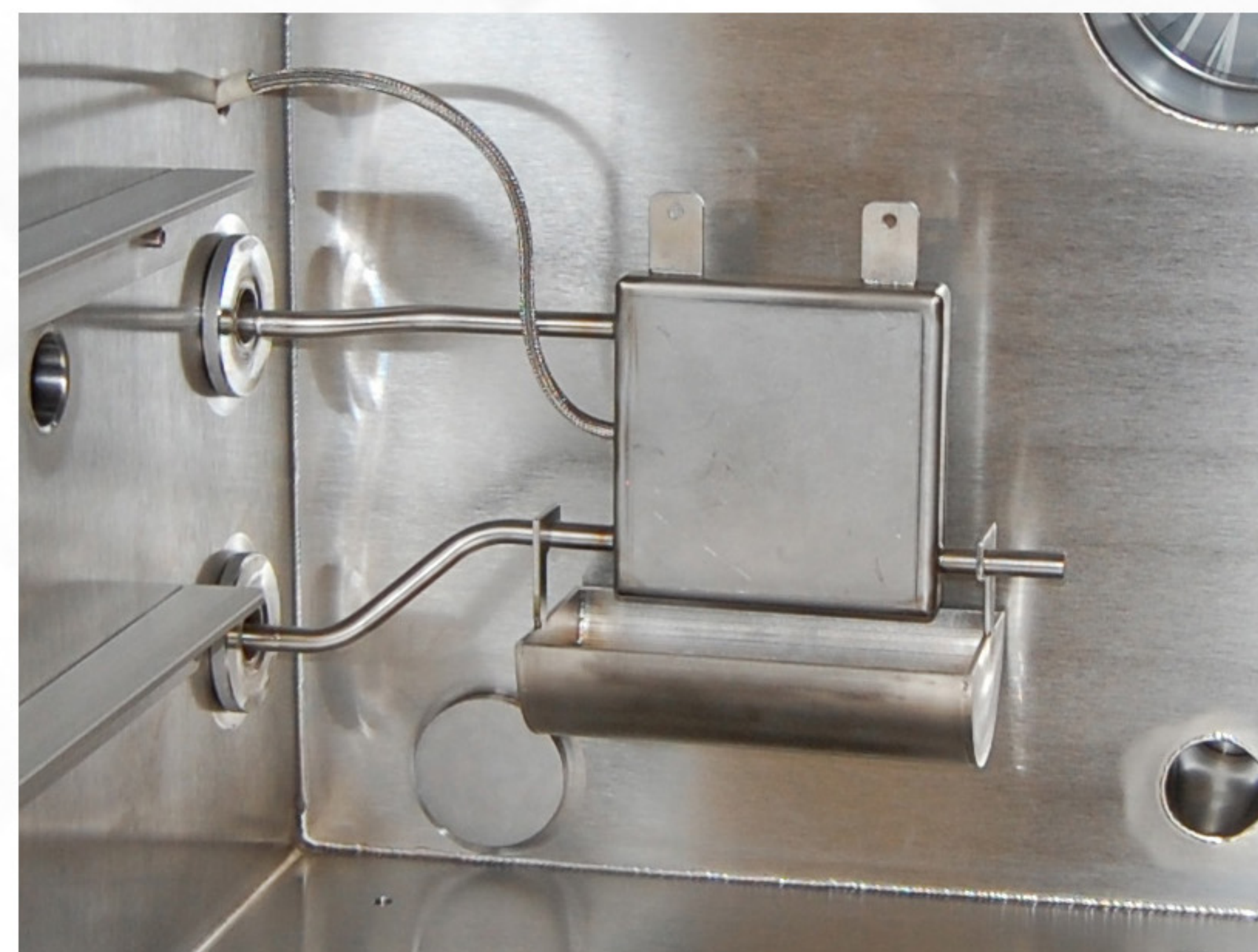
Vacuum Compatible Lights



Available in two sizes: 30" and 17"

- Operating Pressure: Ambient to 10E-7 Torr
- Operating Temperature Range: -190°C to +50°C
- Max Storage Temperature Range: -190°C to +120°C

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.