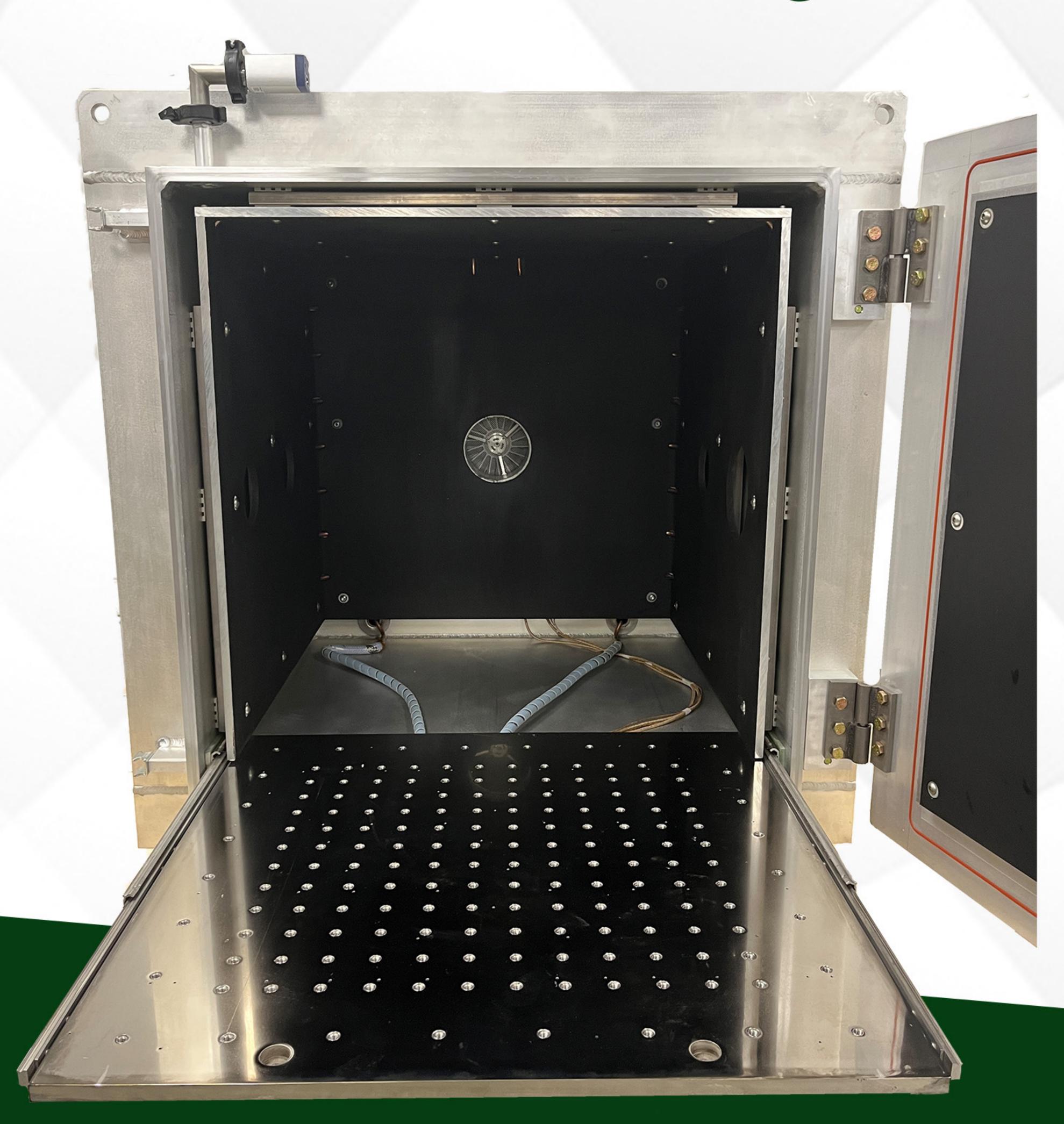
Optical Testing, Imaging, and Spectroscopy Thermal Vacuum Testing Chambers



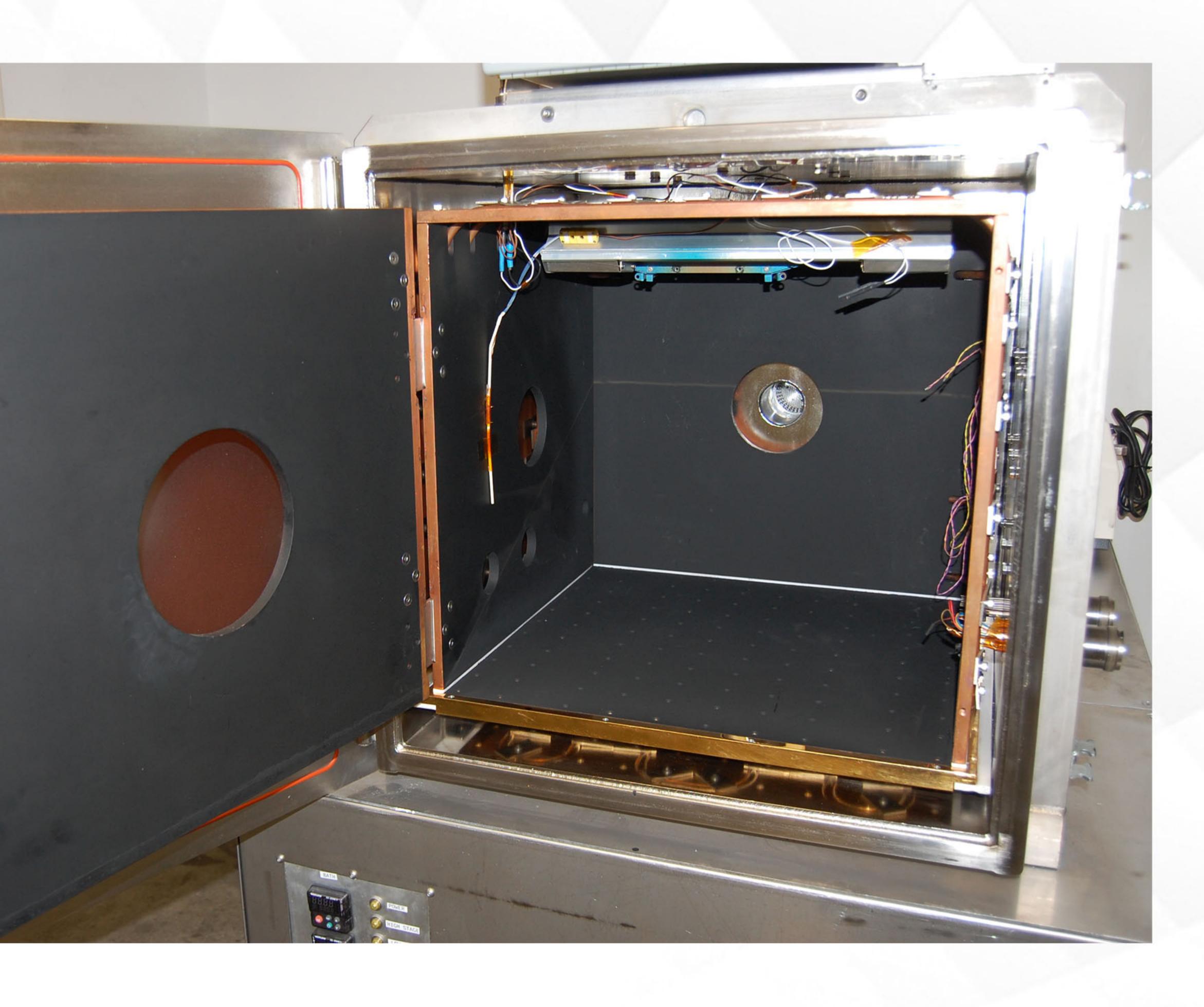


Configurable systems, desinged to meet your exact testing needs, Abbess TVAC Solutions offer the power and flexibility of a custom system, while providing the cost-efficiency, convenience, and quick lead times of a standard solution.



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
- Vacuum levels down to 10-7 torr range
- Viewports available in various materials based of your wavelength and transmission specifications
- 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
 - 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 -180°C to +150°C
- Custom materials available: Quartz, Sapphire and Fused silica

- Custom sequences available

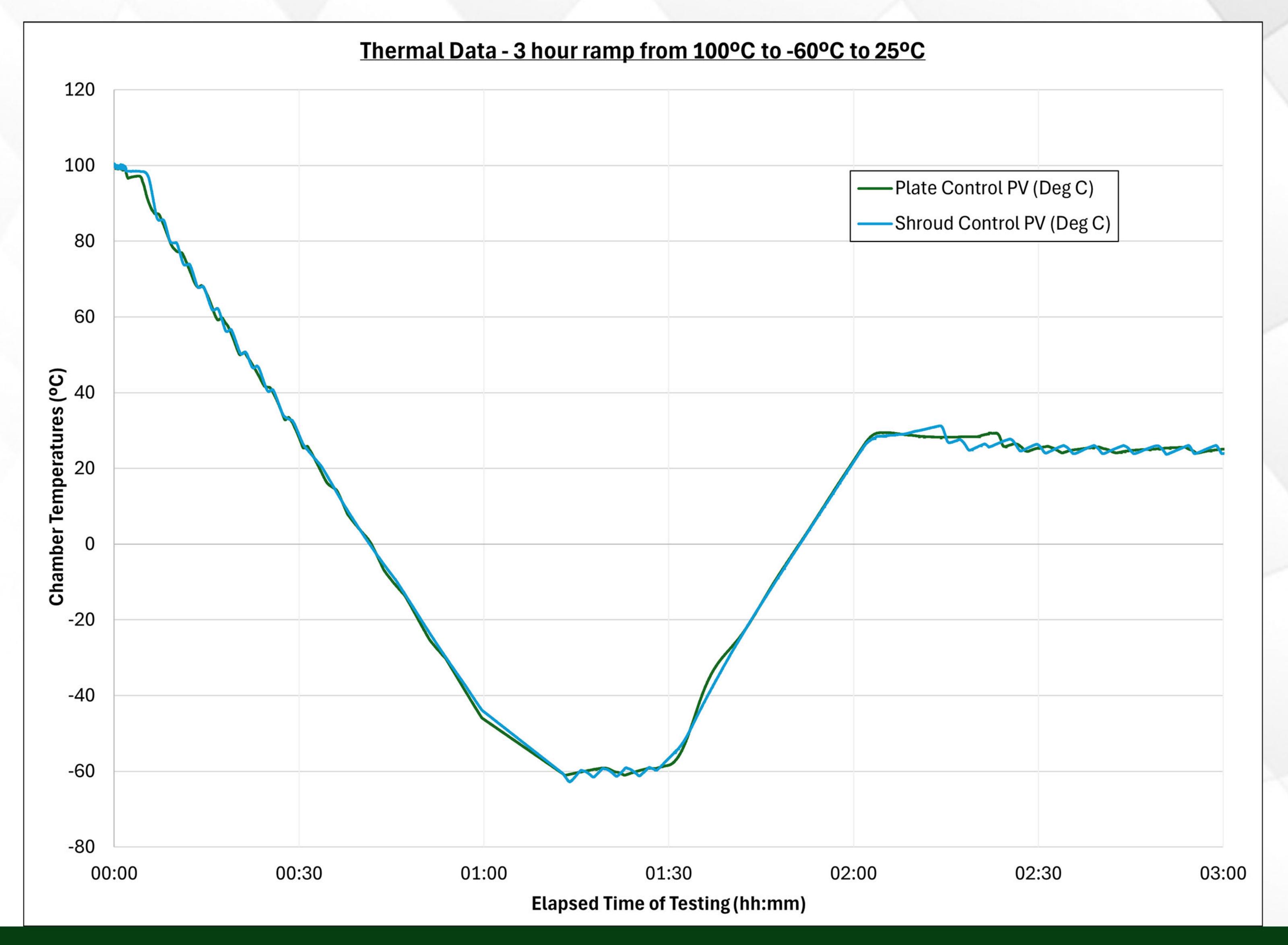
- Custom AR coatings for most available viewports

- Qualification of hardware

- Specific Wavelength readings



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.

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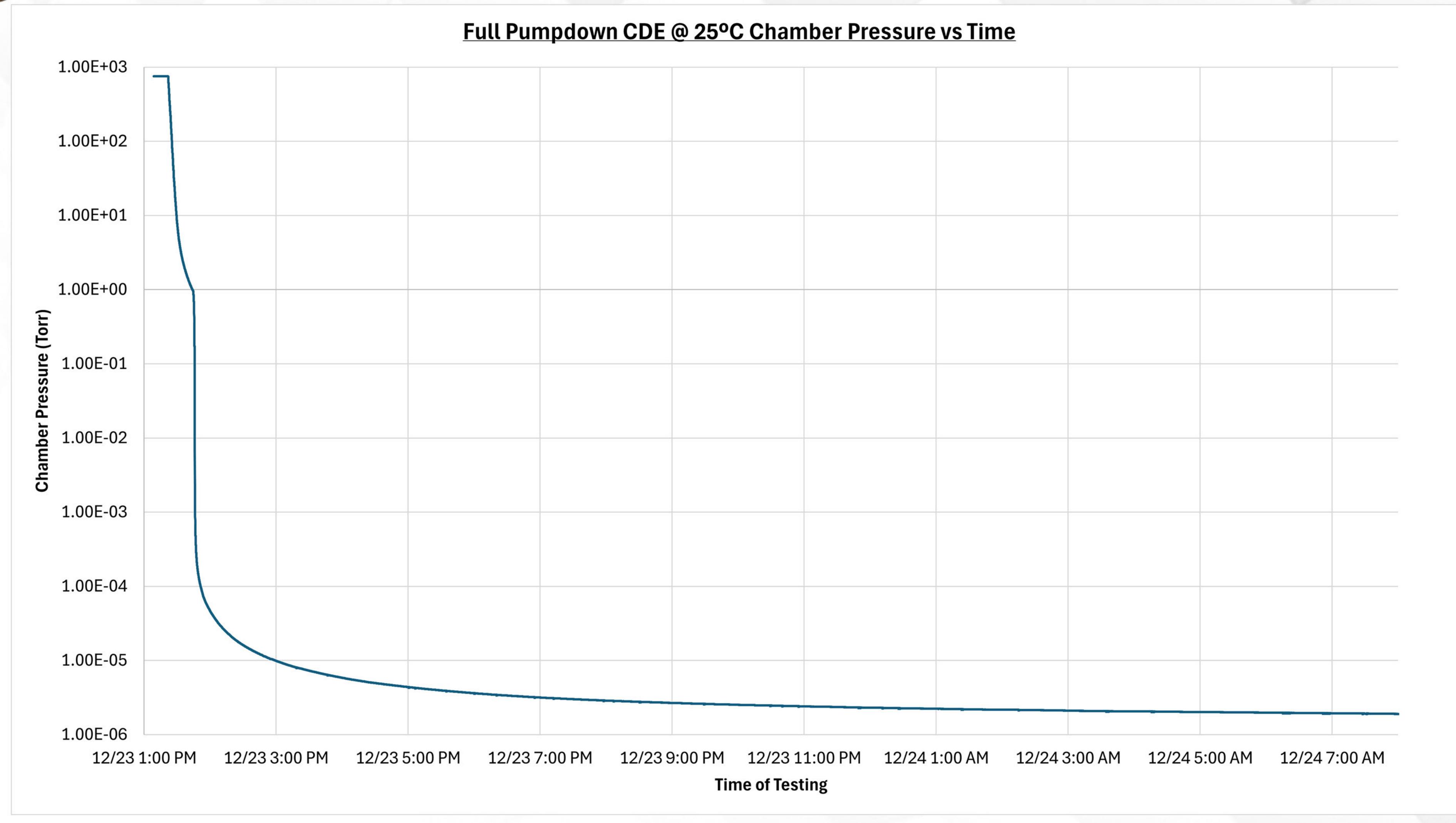
E: ABBESS@ABBESS.COM

P:508-881-8811

A: 75 OCTOBER HILL DR HOLLISTON, MA 01746



VACUUM 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.

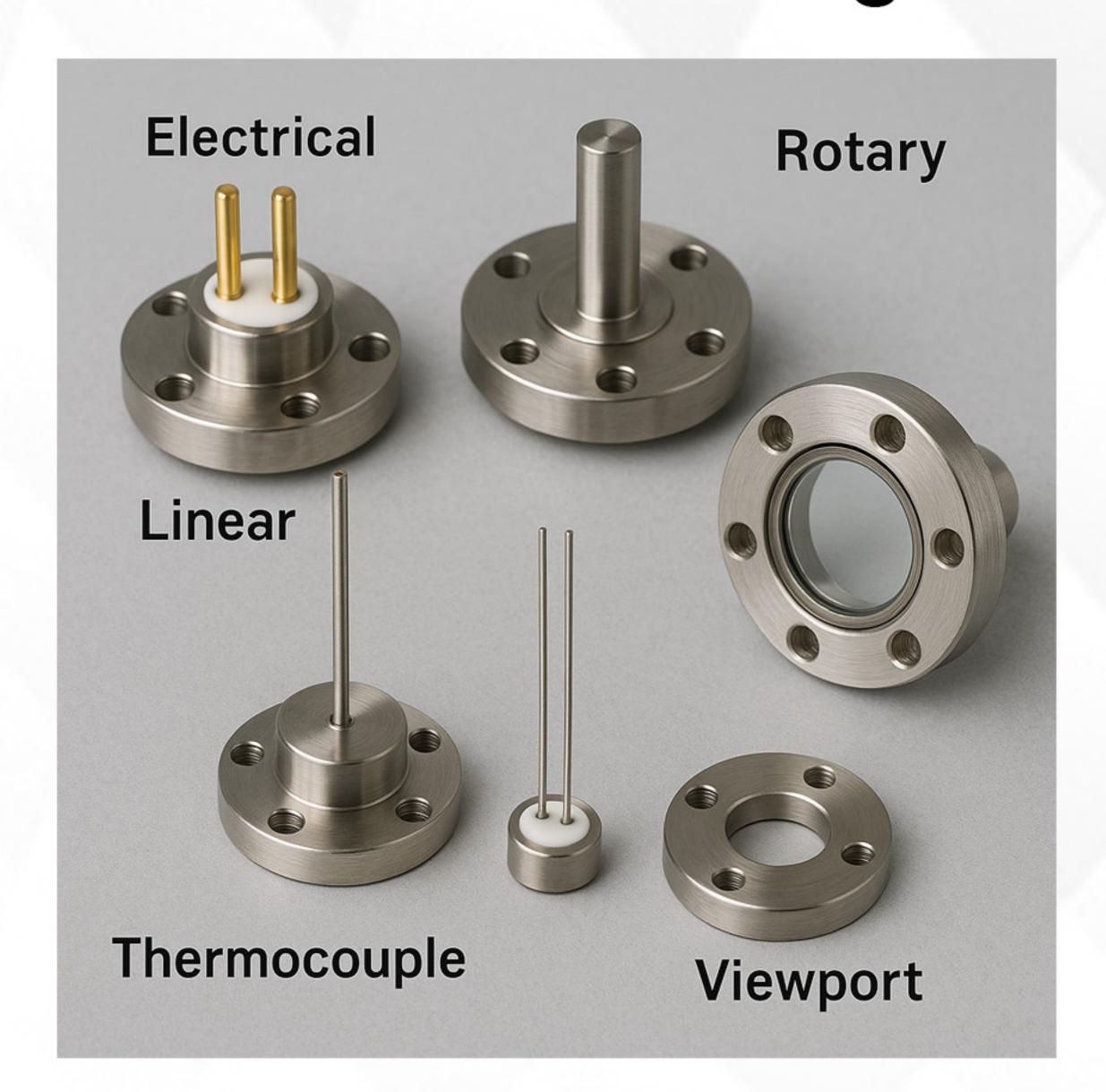
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Vacuum Feedthroughs



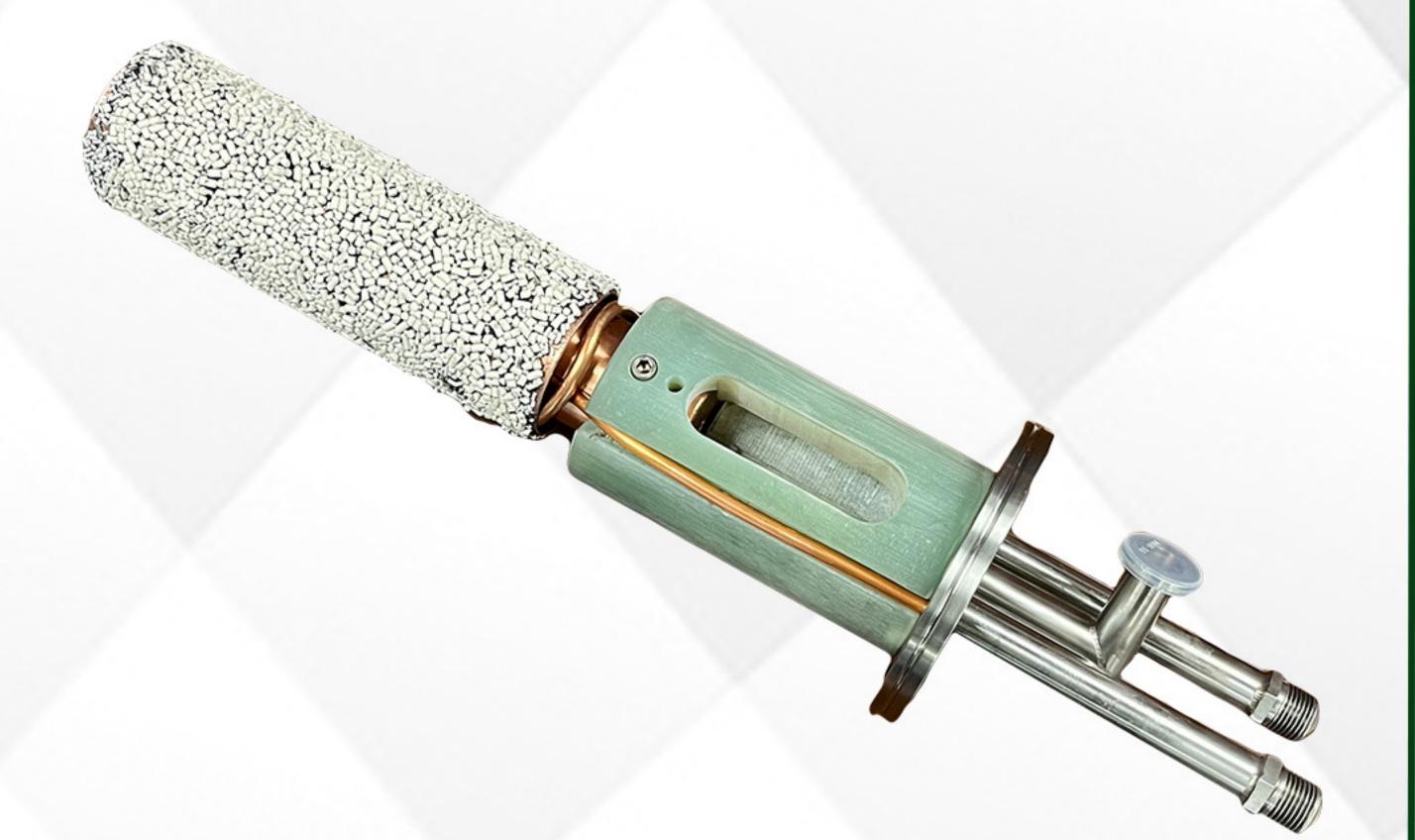
Vacuum Compatiable Lights



Available in two sizes: 30" and 17"

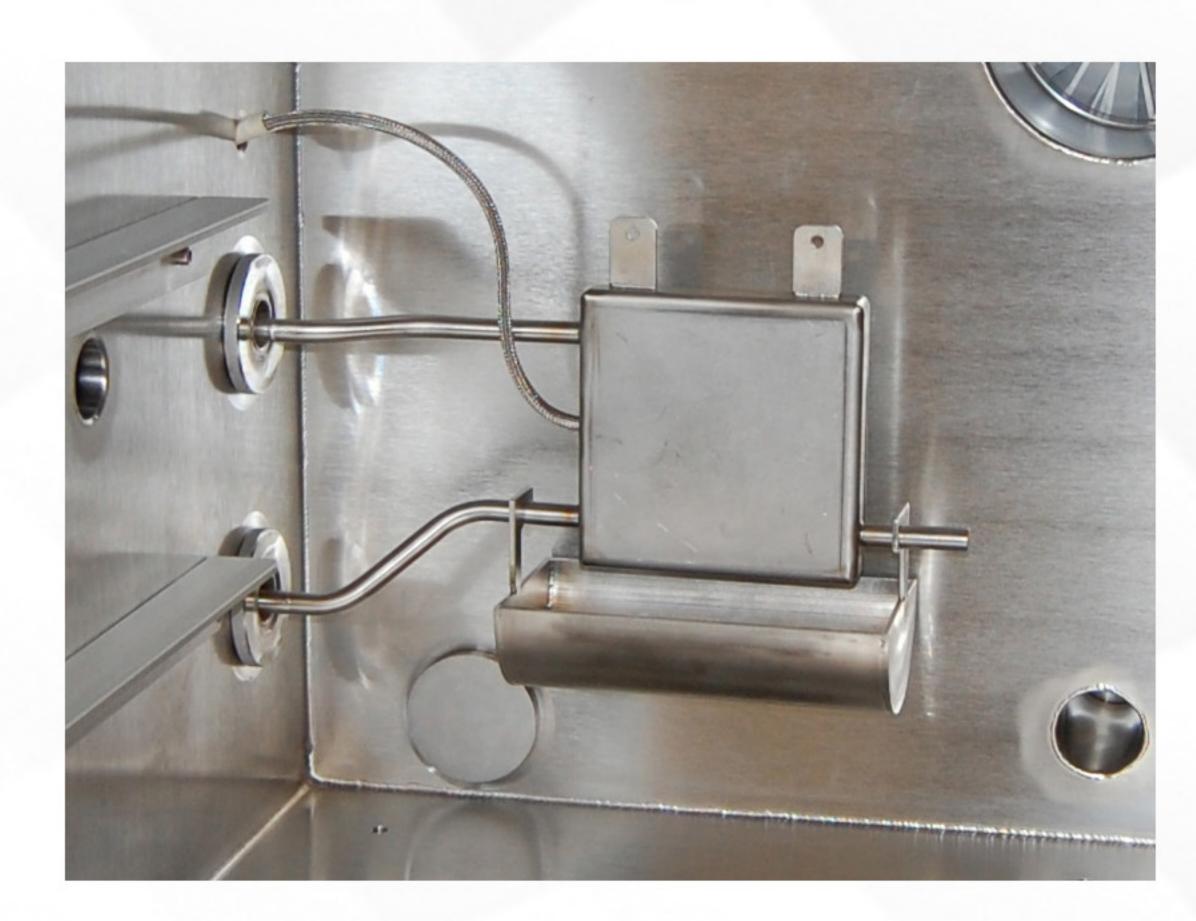
- Operating Pressure: Ambient to 10E-7
 Torr
- Operating Temperature Range: -190°C to +50°C
- Max Storage Temperature Range:
 - -190°C to +120°C

Ln2 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