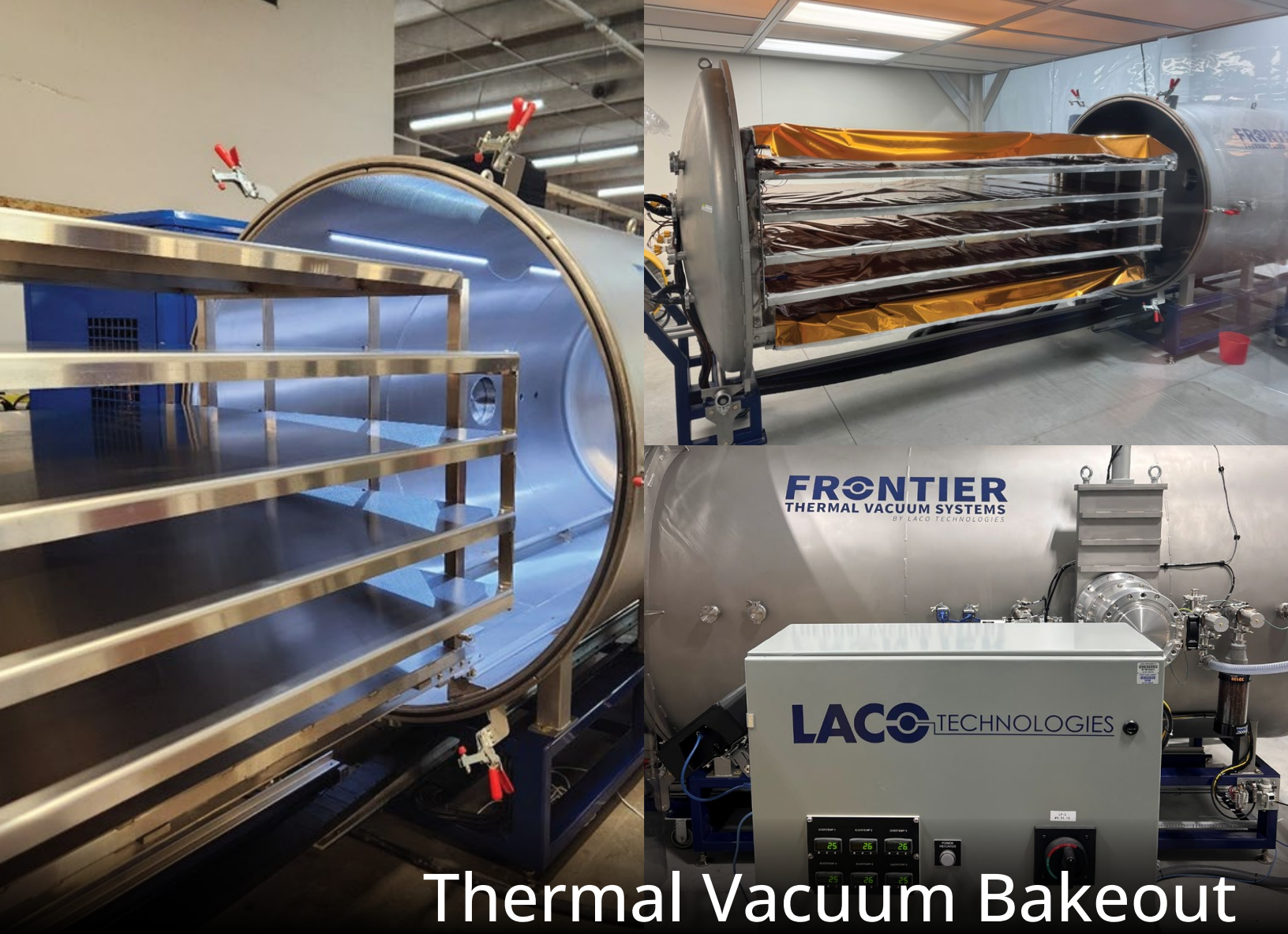




Thermal Vacuum Bakeout



Aerospace Fabrication & Materials' (AFM) advanced thermal vacuum bakeout system is used to ensure the outgassing performance of products for aerospace and cryogenic markets. Using ASTM E2900, the process reduces component outgassing rates to levels necessary to meet mission performance requirements of contamination sensitive hardware. The system ensures superior material stability and readiness for mission-critical applications. Custom test parameters can also be accommodated.

Outgassing performance can be verified to NASA low outgassing standards per ASTM E595.

AFM is an ISO9001/AS91000 certified manufacturing company that specializes in the design, fabrication, and installation of multilayer insulation blankets for aerospace and cryogenic applications.

Thermal Vacuum Bakeout Capabilities

The chamber is a custom built system designed for high volume, high precision processing, with variable loading configurations. Equipped with state-of-the-art recording mechanisms, the system can provide detailed process documentation and post process test data.

SPECIFICATIONS

Bakeout Procedure

- ASTM E2900 (all methods)

Outgas Testing Procedure

- A Temperature-controlled Quartz Crystal Microbalance (TQCM) sensor is used to measure the amount of outgassing that occurs during bake
- ASTM E595 separate coupon testing

Chamber Dimensions

- Cylindrical chamber
- Inside: 59.25" (D) x 117" (L)
- 6 removable shelves
- 178.75 sq. ft of baking surface area

Operating Temperatures

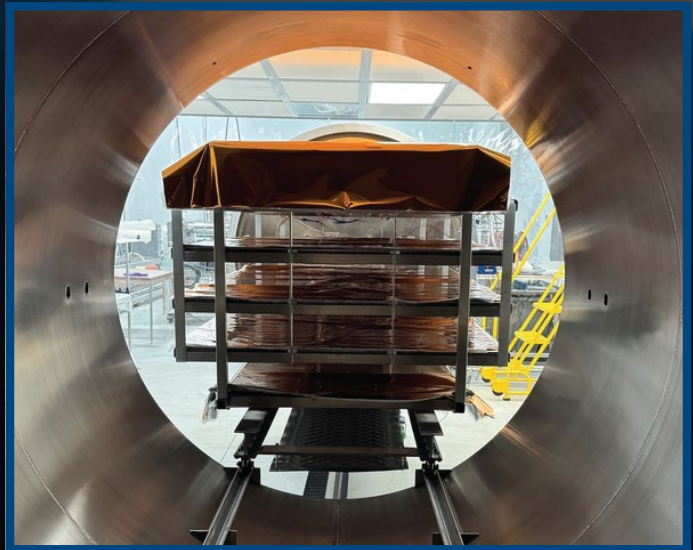
- Min. Cold Plate Temperature: -80°C
 - -59°C if utilizing TQCM
- Max. Chamber Temperature: 150°C

Operating Pressures

- 10^{-5} torr - Atmosphere

Custom Configurations

- AFM provides tailored baking arrangements to optimize performance and expand capabilities



Any Questions?

Please contact us at mli@aerospaceab.com to discuss further details.

Engineered for the Extreme.™

