

PRODUCT TECHNICAL BRIEF

Thermal-Vacuum Chamber for Seal and Flange Leak Testing

Thermal-Vacuum Chamber for Seal and Flange Leak Testing - LeakLab solutions for leak testing, vacuum systems and test equipment.

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Technical and Project Information

Custom test-chamber concept for helium leak testing of seals and flanged assemblies under controlled temperature and internal pressure. Chamber rating, thermal range, pressure circuit, detector and safety architecture are defined from the test specification.

This engineered system exposes a test assembly to a controlled temperature while its internal circuit is pressurized with a tracer gas and the surrounding chamber is evacuated for helium measurement.

Typical subsystems

- Rated vacuum chamber with test-fixture feedthroughs
- Heating, cooling or thermal shielding with multi-point temperature measurement
- Pressure-rated tracer-gas circuit, regulation, isolation and relief
- Roughing and high-vacuum pumping with pressure instrumentation
- Helium leak detector, reference leak and data-acquisition system
- Interlocked control cabinet and test-report generation

The previous page presented example values as though they described a standard machine. Useful volume, temperature range, pressure, vacuum level, leak-rate threshold, power and cycle time are project parameters and require mechanical, thermal, vacuum and safety calculations.

Design and acceptance standards are selected for the customer, test object and country. Pressure-boundary protection, guarding and emergency functions must be independent of measurement software.

- Vacuum Components Gas-Filling Stands for Testing KYKY Vacuum Gate Valves Vacuum Bellows Vacuum Test Chambers Vacuum Valves
- Gas-Filling Stands for Testing
- KYKY Vacuum Gate Valves
- Vacuum Test Chambers
- Helium Reference Leaks
- Scanning Electron Microscopes

- Leak-Detector Accessories

WORLDWIDE PROJECT CONTACT

Send the test object or system, operating conditions, target sensitivity or pressure range, applicable standard, destination country, quantity and schedule. LeakLab will review the project scope.

mail@leaklab.org

Regarding: Thermal-Vacuum Chamber for Seal and Flange Leak Testing

Specifications, standards, verification scope, availability and commercial terms must be confirmed for the exact configuration and destination jurisdiction before order or project acceptance.