

LACO TECHNOLOGIES

HELIUM BOMBING STATIONS

Helium Bombing Stations from LACO Technologies are ideal for manufacturers of small sealed electronics and other hermetically sealed devices which must be bombed with helium prior to leak testing. Stations are designed for either manual or fully automated PLC operation using LACO's Atlas™ Leak Test Process Controller. Automated stations can be programmed to the bombing parameters required for hermeticity testing of microelectronic device seals per Mil-Std-883J, Method 1014.14. For a complete leak test system, add on our TitanTest™ helium leak detector, and a leak test vacuum chamber.

MANUAL HELIUM BOMBING STATION FEATURES

- Choose from 4 ASME Code Stamped Helium Bombing Chambers Rated for Full Vacuum & Pressures to 100 PSI
- Helium Bombing Chamber Sizes: 8" DIA x 3"H, 9" DIA x 15"H, 9.5" DIA x 9.5"H, 14" DIA x 19"H
- Manual Vent, Vacuum, & Helium Valves, Analog or Digital Pressure Gauge, Pressure Relief Valve
- LACO UN-200VH Dry Vacuum Pump (Rated at 4 CFM, 15 torr or 29 inHg ultimate pressure)
- Benchtop or Cart Mounted Configuration



Standard benchtop station with 9.5" DIA x 9.5" H bombing chamber

BENCHTOP CONFIGURATION

- 15" x 16" White Powder Coated Tabletop Base
- Compact Workstation for Easy Benchtop Integration
- Securely Fastened Chamber & Pump
- Configured for 120V Operation
- Vacuum Hose/Connections Between Chamber & Pump



Standard cart station with two 9" DIA x 15" H bombing chambers

CART CONFIGURATION

- All Items Mounted Onto a Cart
- 4 Plug 120V Power Strip with a Common Power Cord
- 2 Locking & 2 Rotating Casters
- Platform & Security Chain for Customer's Helium Tank
- Vacuum Hose/Connections Between Chamber & Pump

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AUTOMATED HELIUM BOMBING STATION FEATURES

- LACO's Atlas™ Leak Test Process Controller to Automatically Control Bombing Process
- Choose from 4 ASME Code Stamped Helium Bombing Chambers Rated for Full Vacuum & Pressures to 100 PSI
- Helium Bombing Chamber Sizes: 8"DIA x 3"H, 9"DIA x 15"H, 9.5"DIA x 9.5"H, 14"DIA x 19"H
- Vent, Vacuum, & Helium Valves, Analog or Digital Pressure Gauge, Pressure Relief Valve Integrated Into Atlas™
- LACO UN-200VH Dry Vacuum Pump (Rated at 4 CFM, 15 torr or 29 inHg ultimate pressure)
- Benchtop or Cart Mounted Configuration (See Front Page for Features)



ATLAS
CONTROLLER

*Automated station
featuring custom options*



ATLAS™ LEAK TEST PROCESS CONTROLLER FEATURES

- Programmable with Capacity to Hold Up to 100 Custom Bombing Recipes
- Auto Bombing Sequencing with Timers for Tracking Bombing & Dwell Time
- Configurable to Bombing Procedure Outlined in Mil-Std-883J, Method 1014.14
- 5.7" Color Touchscreen for Displaying Chamber Pressure & Key Bombing Parameters
- Multiple User Selectable Air Purge Cycles for Chamber & Residual Helium Cleanup
- Able to Perform Up to 999 Hour-Long Bombing Times
- Auto Evacuation of Chamber Once Bombing is Complete
- Data Collection & Retrieval Via 8 GB SD Card, Ethernet, or Remote Web Interface
- User & Engineering Level Password Protection
- System Setpoint Control Using Fill & Vent Valves
- Manual & Diagnostic Operation Modes

HELIUM BOMBING STATION OPTIONS & ACCESSORIES

- Custom Frame for Mounting Bombing Stations
- Barcode Scanner with Stand and Integration to Atlas™ System Software
- Ticket Printer Built Into Atlas™

*Mil-Std-883J, Method 1014.14:
Test to Determine Hermeticity of
Microelectronic Device Seals*

*Values for bomb pressure exposure time,
and dwell time shall be chosen such
that actual measured tracer gas leak
rate readings obtained for the devices
under test (if defective) will be greater
than the minimum detection sensitivity
capability of the mass spectrometer.*