

LACO TECHNOLOGIES

HELIUM BOMBING CHAMBERS

LACO designs and manufactures both standard and custom leak test bombing chambers for the leak testing of sealed objects that cannot be connected directly to a leak detector. We offer three standard bombing chambers that can be easily customizable to meet the needs of your application. Our applications engineers can also design manual or fully automated leak test bombing systems that include the components you'll need for a complete turnkey system.



LBC0404-60



LBC083-60



LBC0915-60

STANDARD FEATURES

Standard leak test bombing chambers feature stainless steel construction and clamped lid. Designed for connecting to a regulated helium source for bombing, chambers include:

- Helium connection
- Vacuum connection
- Vent port and valve
- Vacuum gauge

CUSTOM SYSTEMS

Turnkey bombing systems designed for either manual or fully automated operation include:

- Bombing chamber
- Gas manifold (with valves, regulator, pressure transducer)
- Vacuum pump
- Timer
- PLC control system (for automated operation)

The leak test bombing method is used to leak test sealed objects that cannot be connected directly to a leak detector. The part is placed in a chamber containing pressurized helium, allowing the helium to penetrate the part. It is then tested in a vacuum chamber connected to the leak detector. Important considerations include pressurization time, helium bombing pressure, internal volume and leak size.

HELIUM BOMBING CHAMBER SPECIFICATIONS

COMPONENT	DESCRIPTION		
PART NUMBER	LBC0404-60	LBC083-60	LBC0915-60
DIMENSIONS	4" Diameter x 4" Ht	• Chamber: 8" Diameter x 3" Ht • Top opening oval lid: 4"x 3"	• Chamber: 9" Diameter x 15" Ht • Top opening oval lid: 5-7/8" x 4-7/8"
CAPACITY	0.8 liter capacity	1.4 liter capacity	3 gallon capacity
CONSTRUCTION	304 SS	304 SS with white pickled finish	
VACUUM CONNECTION	NW 16 vacuum flange and valve	1/4" vacuum port with manual valve adapted to NW 25 vacuum flange (NW 16 available upon request)	
VENT PORT	1/4" NPT vent and safety pressure relief valve set to 75 psig		
HELIUM CONNECTION	1/4" port with manual valve and push connect fitting for 1/4" plastic tubing from regulated helium supply		
GAUGE	0-30 inHg to 60 psi compound gauge		

Bombing chamber LBC083 and LBC0915 are also available in 100 psi or 140 psi options. Contact LACO for part number.