



Helium Bombing Stations



The Bombing Stations are designed for bombing hermetically sealed devices in conformance with MIL-STD 883E, 750 and 202.

The Helium Bombing Stations are offered in several different versions:

- PBS-2 Dual Chamber
- PBS-30 Dual Chamber
- PV883-1 & PV-883-2 Single & Dual Chamber
- PV883-6 Six Chamber
- Specialty Units and Custom Configurations

Vacuum Instrument Corporation

Designers and Manufacturers of Leak Detectors, Gas Handling Equipment, and Complete Leak Detection Solutions
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PBS-2 Dual Chamber Helium Bombing Station

- Two large chambers, which may be pressurized to 100 psi, can be operated independently to supply a constant flow of newly prepared devices for continuous helium leak testing
- Two different devices may be prepared to varying specifications
- Operating controls provide for initial evacuation of the chamber, venting of chamber after bombing, and purging of chamber with dry gas (typically nitrogen)



Operation

- Initial Startup
- Loading of Canister
- Evacuation of Canister
- Pressurization with Helium
- Bombing Period
- Venting of Canister
- Flushing the Devices
- Shutdown of Bombing Station

Specifications

System specifically designed for the bombing of hermetically sealed devices in conformance with MIL Std 883E, 750 and 202

Chamber Size: 2 chambers, 9" diameter by 10-1/2" deep (2 gallon volume)

Maximum Operating Pressure: 100 psi

Pump: 7 CFM direct drive mechanical pump with coaxial trap to prevent back-streaming into the chamber

Operation: Controls provide initial evacuation, venting after bombing and purging of the chamber with Nitrogen and other gases

Valves: Manual, designed for long life

Safety: 110 psi pressure relief valves

Frame: Open frame style with swivel-type casters and Formica top

PHYSICAL DATA

Size: 22" W x 23" D x 40.5" H

Shipping Weight: 345 lbs

Power Requirements: 100/115V 60 Hz, 220V 50 Hz

VIC Part Numbers

9902-579-01 (100/115V 60 Hz)

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PBS-30 Dual Chamber Helium Bombing Station

- Two large chambers, which may be pressurized to 100 psi, can be operated independently to supply a constant flow of newly prepared devices for continuous helium leak testing
- Two different devices may be prepared to varying specifications
- Operating controls provide for initial evacuation of the chamber, venting of chamber after bombing, and purging of chamber with dry gas (typically nitrogen)



Operation

- Initial Startup
- Loading of Canister
- Evacuation of Canister
- Pressurization with Helium
- Bombing Period
- Venting of Canister
- Flushing the Devices
- Shutdown of Bombing Station

Specifications

System specifically designed for the bombing of hermetically sealed devices in conformance with MIL Std 883E, 750 and 202

Chamber Size: 2 chambers, 20" diameter by 30" deep (30 gallon volume)

Maximum Operating Pressure: 100 psi

Pump: 7 CFM direct drive mechanical pump with coaxial trap to prevent back-streaming into the chamber

Operation: Controls provide initial evacuation, venting after bombing and purging of the chamber with Nitrogen and other gases

Valves: Manual, designed for long life

Safety: 120 psi pressure relief valves

PHYSICAL DATA

Size: 60" W x 29" D x 45.5" H

Shipping Weight: 1100 lbs

Power Requirements: 100/115V 60 Hz

VIC Part Number

9902-773-01 (100/115V 60 Hz)

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PV883-1 & PV883-2 Single & Dual Chamber Helium Bombing Stations

- Large control panel with manifolding schematic simplifies cycling of the system
- Fail-safe locking system prevents chamber from opening under pressure
- Quiet direct-drive mechanical pump with coaxial trap provides for contamination-free evacuation of the chamber
- Safety over-pressure relief valve



Features

- ASME coded chamber 10" dia x 15" depth
- Convenient wing-nut closures
- 3.2 CFM Direct Drive pump
- All necessary valving and manifolding

PV-883-2 Dual Chamber Bombing Station features same as PV-883-1 plus second ASME coded chamber

Specifications

System specifically designed for the bombing of hermetically sealed devices in conformance with MIL Std 883E, 750 and 202

Chamber Size: 10" diameter by 15" deep

Maximum Operating Pressure: 150 psig

Pump: 3.2 CFM direct drive mechanical pump with coaxial trap

Operation: Controls provide initial evacuation, venting after bombing and purging of the chamber with Nitrogen and other gases

Valves: Manual, designed for long life

Safety: 150 psig pressure relief valves

PHYSICAL DATA

Size: 24" W x 23 1/2" D x 43" H

Power Requirements: 120V 60 Hz

VIC Part Numbers

941-111 (for model PV-883-1)

942-111 (for model PV-883-2)

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PV883-6 Six Chamber Helium Bombing Stations

- Large control panel with manifolding schematic simplifies cycling of the system
- Rugged non-breakable chambers with twist quick disconnects facilitate loading and unloading
- Individual gauge, isolation valve, and purge valve for each chamber allow for sequential or simultaneous chamber cycling
- Large work surface at bench height
- Quiet direct-drive mechanical pump with coaxial trap provides for contamination-free evacuation of the chamber



Description

Because of its six-chamber design, the PV883-6 offers great flexibility in preparing hermetically sealed devices for leak testing. The chambers can be cycled simultaneously or sequentially. With simultaneous cycling, a large number of bombed devices can be supplied to the leak detector in a very short period of time. With sequential cycling, a constant flow of bombed devices is provided to the leak detector.

Specifications

System specifically designed for the bombing of hermetically sealed devices in conformance with MIL Std 883E, 750 and 202

Chamber Size: Six 2-3/8" ID x 4" depth

Maximum Operating Pressure: 150 psig

Pump: 3.2 CFM direct drive mechanical pump with coaxial trap

Operation: Controls provide initial evacuation, venting after bombing and purging of the chamber with Nitrogen and other gases

Valves: Manual, designed for long life

Safety: 150 psig pressure relief valves

PHYSICAL DATA

Size: 60" W x 23 1/2" D x 50 3/4" H

Power Requirements: 120V 60 Hz

VIC Part Number

943-111

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Specialty Units and Custom Configurations

- PV-883Jr – Ideally suited for low volume applications

Features - Chamber 5" dia x 3" depth with integral manifold block and all necessary valving
3.2 CFM Direct Drive pump with coaxial trap
Mounts to table top

Part Number – 944-112

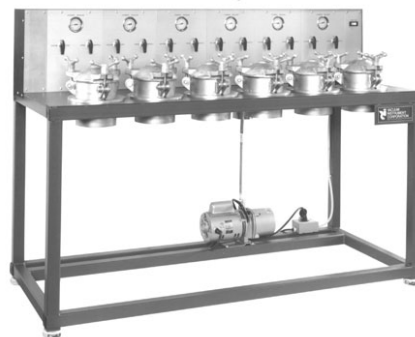
- Dual Purpose Helium/Fluorocarbon Bombing Station for preparation of devices for Gross/Fine leak detection

Features – ASME coded chamber 8:" dia x 8" depth
Thermocouple gauge and control
Built-in 10 hour timer
FC-72 holding tank
3.2 CFM Direct Drive mechanical pump with coaxial trap
Meets Mil Std 883 specifications



Part Number – 944-111

- Ask us about the above units or to custom build a bombing station for you.



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