

PRODUCT TECHNICAL BRIEF

Multi-Cylinder Evacuation System Before High-Purity Gas Filling

Multi-Cylinder Evacuation System Before High-Purity Gas Filling - LeakLab solutions for leak testing, vacuum systems and test equipment.

[Open the current source page](#)



Technical Data

PARAMETER	PUBLISHED VALUE / INFORMATION
Positions	Six in the source concept
Target residual pressure	≤ 1 Pa in the source concept; acceptance conditions must be specified
Cryogenic trap volume stated in source concept	5 L
Operating pattern	Batch or shift operation, subject to pump and trap sizing

Technical and Project Information

Six-position evacuation concept for removing air and moisture from cylinders before controlled high-purity gas filling. Pumping, trapping, manifold materials, valves, safety devices and acceptance pressure are engineered for the cylinder and gas service.

This system prepares cylinder interiors by evacuation before a separate, approved high-pressure filling process. The source concept uses a six-position manifold, two-stage rotary-vane pump and cryogenic trap.

Evacuation alone does not guarantee a final gas purity grade. Cylinder history, bakeout, purge cycles, moisture analysis, manifold cleanliness, leak tightness and the quality of the source gas all affect purity.

The former page mentioned filling to 150 atm, but a vacuum manifold must not be assumed safe for high-pressure filling. Any shared high-pressure section requires pressure-rated components, relief protection, gas-specific cleaning, formal hazard review and conformity with the rules at the installation site.

- Leak Detectors Leak-Test Systems Portable Helium Leak Detectors Pressure-Change Leak-Test Instruments Helium Mass-Spectrometer Leak Detectors
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- Pressure-Change Leak-Test Instruments
- Helium Mass-Spectrometer Leak Detectors

- 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: Multi-Cylinder Evacuation System Before High-Purity Gas Filling

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