

PRODUCT TECHNICAL BRIEF

KTK-2UP Capillary Helium Reference Leak

The KTK-2UP capillary reference leak produces a controlled tracer-gas flow through a glass capillary. LeakLab offers helium reference leaks based on helium-permeable capillary elements.

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Technical Data

PARAMETER	PUBLISHED VALUE / INFORMATION
Product Label	Recommended

Technical and Project Information

Key Features and Benefits

- Operating principle: a capillary reference leak with a flow of approximately $10^{-9} \text{ Pa} \cdot \text{m}^3 / \text{s}$.
- Gas options: the reference leak can be filled with different gases on request.
- Scope of supply: Reference leak in a dedicated protective case. Filter element that helps prevent contamination from the test object. Document stating the accurately measured flow.
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Measured Parameters

- Flow stated in the passport: $2.97 \times 10^{-9} \text{ Pa} \cdot \text{m}^3 / \text{s}$ at 23°C .
- Flow measured in the laboratory: $2.3 \times 10^{-9} \text{ Pa} \cdot \text{m}^3 / \text{s}$, including temperature correction.

Helium reference leaks are used to set up leak-testing equipment on large vacuum systems and chambers. Together with a leak detector and external vacuum pumps, they provide a known tracer-gas flow for correct instrument setup.

Ordering Information

Contact LeakLab to order the product or request additional information.

A reference leak is a device that produces a stable tracer-gas flow of known magnitude, such as a helium flow. It is used to check the sensitivity and calibrate equipment for leak detection and leak-tightness testing.

The KTK-2UP capillary helium reference leak is designed to generate a stable helium flow for setting up helium leak detectors and determining the sensitivity of leak-detection systems. It can be used for both vacuum and sniffer leak testing.

The assembly includes a body that serves as the helium reservoir, a capped charging valve for filling the device, and a KF25 flange for reliable connection to the system under test.

KTK-2UP Technical Specifications

- Tracer gas: 100% helium
- Helium-flow range: 2.67×10^{-9} to 6.5×10^{-8} Pa·m³ /s
- Measurement error: $\pm 30\%$
- Operating-pressure range: 0.5 to 10 kgf/cm²
- Helium-flow temperature correction: 1% per 1 °C
- Maximum dimensions: 42 × 205 mm
- Calibration interval: 12 months
- Weight: no more than 1 kg

KTK-2UP reference leaks can be manufactured to meet customer requirements for tracer-gas flow, allowing them to be used in different leak-testing systems.

- Helium Reference Leaks Capillary Helium Reference Leaks Gelit Reference Leaks Reference Leaks for Pfeiffer and Adixen ASM Detectors
- Capillary Helium Reference Leaks
- Gelit Reference Leaks
- Reference Leaks for Pfeiffer and Adixen ASM Detectors
- 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: KTK-2UP Capillary Helium Reference Leak

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