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# AEC-NASA TECH BRIEF



## Laboratory Leak Tester Provides High Sensitivity

A simple, reliable portable leak detecting unit is capable of measuring leak rates of $10^{-5}$ cc/sec or less. The device can be mounted in a carrying case and consists of three vacuum chambers, two pressure gages, and positive seal type control valves.

The unit operates by measuring the pressure increase caused by the leak. A calibrated chamber contains a known volume of gas and the change in pressure of this gas over a given period of time is measured by an extremely sensitive pressure differential type of gage. The data is reduced to determine the leak rate.

The leak tester can be used to check various types of valves and fittings for leak tightness. When used with a small vacuum chamber or bell jar various materials can be checked for outgassing at different pressures, or the approximate vapor pressure points of the materials can be determined.

The leak tester may be of interest to manufacturers and suppliers of industrial gas, laboratory personnel, and users of hazardous or toxic gas.

**Note:**

Requests for further information may be directed to:

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Reference: TSP72-10240

**Patent status:**

Inquiries concerning rights for commerical use of this information may be made to:

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