

Cassette Leakage Tester

The Omega Cassette Leakage Tester checks cassettes before use and eliminates the need to resample because of leaks due to improper sealing of cassettes.



- ✳ Checks Cassette leakage to insure accurate sampling results
- ✳ Verifies Cassette integrity
- ✳ Non Destructive Test
- ✳ Quick and easy to use
- ✳ Low Cost
- ✳ No specific training needed to operate

Depending on the application, different plastic materials are used to manufacture 25, 37 and 47mm air sampling cassettes. Each material requires specific manufacturing process requirements and in-process quality inspections. Worn molds, changes in temperature and reduced QC, due to cost, can cause cassettes to fail because of improper sealing or plugs to fall out. At the present time there are no official standards in place for manufacturers to adhere to.

Omega specialty offers the most comprehensive selection of air sampling cassettes, 3 different diameters and 6 materials of construction. Omega Specialty has implemented leak standards during manufacturing as part of its Quality Inspection Program. Because of these quality checks Omega can certify our cassettes as "**Leak Free**". (The test method, TN060, can be obtained upon request by contacting Omega at www.omegaspec.com.)

To an industrial hygienist, a leaking cassette means re-sampling and lost time and cost. To reduce the chances of leaky cassettes, many users assemble them in-house. Pressing the cassette on a table, or hitting it with a mallet may not be enough to seal it properly. To help evaluate the quality of the closing step, and the quality of your brand of cassettes in general.

Omega has developed this non-destructive, easy, inexpensive apparatus to detect leaks quickly. (Omega also offers a device to help in the proper closing of cassettes. For information, ask for PB413, the Omega Pneumatic Cassette Closer). Checking cassettes ahead of time will insure a quality product, reduce the need to re-sample.

The addition of a stopwatch makes the leak tester a very powerful field QC tool. Research done at Omega, shows that if a 24" of Hg vacuum is drawn on a cassette, and the rate of decay is measured to be greater than 1" of Hg in 30 seconds, it translates to a 0.2% sampling error. This relationship is linear up to 5 inches of Hg in 30 seconds.

All of Omega's cassettes are certified to a vacuum decay of less than 1" of Hg in 30 seconds.

So if your cassettes do not meet this specification, choose cassettes that do. If your laboratory sends you cassettes that fail the 1" of Hg per 30 seconds, demand that they provide you with cassettes that do, they are available.

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SPECIFICATIONS

The Field Leak Tester	Made of high impact ABS
The Vacuum Gage	0 - 30" of Hg
Hose-Cassette Adaptor	Polycarbonate
Tubing	PVC
Each unit is inspected at the factory to be free of leaks.	

ORDERING INFORMATION

	Catalog Number
Leak Tester	A-FIELDTEST

The Omega cassette leakage tester consists of a hand-held vacuum pump with a vacuum gauge capable of reading up to 30"Hg. PVC tubing is attached with a polycarbonate cassette adaptor.

SPARE PARTS & ACCESSORIES

Adaptor	20/pk	ADPTR
Vacuum Gage	1/pk	A-VAC30
Hand pump only	1/pk	A-HNDPUMP
Stop Watch	1/pk	A-STPW

INSTRUCTIONS

- 1) The adaptor is inserted into the bottom (outlet) of the cassette.
- 2) A plug is inserted into the top (inlet).
- 3) Operate the hand vacuum to create a 24" Hg vacuum.
- 4) Use a stopwatch to measure the decay of the vacuum.

If there are no leaks, the cassette should be able to hold this vacuum.
(If there is a leak, the vacuum will begin to fall. Every 1" Hg per 30 seconds, means the accuracy of volume of sample taken, is reduced by 2-3%.)