

## Series A24 “Puffer” Test Gas Generator

Do you need to regularly “**bump test**” your portable or fixed gas detection equipment?

A part of many safety programs is a requirement that portable detectors used for personal monitoring be response tested prior to use. In addition, fixed detectors must be tested regularly to insure they remain sensitive to the target gas.

Regular “**puff tests**”, which involve the brief exposure of gas sensors to a puff of air containing a small amount of the target gas, provide a quick check on sensor performance. This is often done using cylinder gas from expensive calibration cylinders. While providing a valid test, this type of test can be fairly expensive due to the cost of cylinder gas. In addition, compressed gas cylinders are not easily transported, which can create supply problems for users.

For years, ATI has supplied fixed gas detectors that perform an automatic bump (or puff) test. We have now adapted this technology to a simple, hand-held generator that can be used to test gas detectors from any supplier. The “**Puffer**” is a portable, battery-operated instrument containing a gas generator and simple hand pump that provides the puff of air needed for sensor response checks.

**Puffer** units are available for testing the following gas sensors:

Chlorine	Cl <sub>2</sub>
Hydrogen Sulfide	H <sub>2</sub> S
Sulfur Dioxide	SO <sub>2</sub>
Carbon Monoxide	CO
Ammonia	NH <sub>3</sub>

For puff testing diffusion type gas detectors, the Puffer includes a short outlet tube. Gas is ejected from the generator by pressing the bladder on the front of the unit. The tubing can be extended if needed, as long as the tubing used is compatible with the gas generated by the unit. For testing detectors with internal sampling pumps, a plug on the unit is removed so that the sampling pump can pull air through the generator cell for delivery to the detector.



**Puffers** are water resistant for use in any environment and are designed to intrinsic safety standards. Generator cells provide hundreds of tests, with an LED to indicate the remaining life of the generator cell. Generator cells are easily changed, and the life indicator can be reset when a new generator is installed.

**Specifications**

Power:	9 VDC Alkaline Battery
Generator:	Electrochemical Type
Gen. Life:	1000 Cycles for Cl <sub>2</sub> 350 cycles for other gases
Pump:	Manual Bladder
Display:	Single Digit LED
Outlet Tube:	6" (152 mm) Polyethylene
Enclosure:	Nema 4X (IP-66)
Size:	4.7" x 3.2" x 2.4" 120 x 80 x 60 mm
Weight:	0.7 lbs. (333 Gr.)

**Ordering Information**

Each **Puffer** bump test generator is supplied with a specific gas generator cell factory installed. Spare generator cells may be ordered separately. Spare generators should be stored in a refrigerator in the sealed container in which they are shipped.

Pump:	Manual Bladder	00-1397	A24-11 Cl <sub>2</sub> <b>Puffer</b>
		00-1398	A24-24 H <sub>2</sub> S <b>Puffer</b>
Display:	Single Digit LED	00-1399	A24-15 NH <sub>3</sub> <b>Puffer</b>
		00-1400	A24-16 CO <b>Puffer</b>
Outlet Tube:	6" (152 mm) Polyethylene	00-1401	A24-27 SO <sub>2</sub> <b>Puffer</b>
Enclosure:	Nema 4X (IP-66)	00-1433	D18-11 Cl <sub>2</sub> Generator Cell
Size:	4.7" x 3.2" x 2.4" 120 x 80 x 60 mm	00-1434	D18-15 NH <sub>3</sub> Generator Cell
		00-1435	D18-16 CO Generator Cell
		00-1436	D18-24 H <sub>2</sub> S Generator Cell
Weight:	0.7 lbs. (333 Gr.)	00-1437	D18-27 SO <sub>2</sub> Generator Cell