



Knowledge Beyond Measure.

Respirator Leak Tester

Model 8119A



Verify the integrity of respirators with ease

The Respirator Leak Tester 8119A is an accessory for the Automated Filter Tester 8130A that empowers you to perform critical tests whenever doubts arise about mask integrity, e.g. after maintenance. It is the next generation and successor to the original 8119 accessory used with the legendary Automated Filter Testers 8127 and 8130.

The Respirator Leak Tester 8119A is designed with precision and reliability in mind, making it the ideal companion for the Automated Filter Tester 8130A. With this essential add-on, you can perform integrity tests quickly and confidently, ensuring that your respiratory protection equipment meets the highest standards of safety and effectiveness.

The 8119A enables you to verify the integrity of respirators with ease, giving you the confidence that your equipment is up to the task. For example, after maintenance or repairs, you need to be certain that your respirators are still providing the protection they were designed for. The 8119A allows you to conduct crucial tests to verify that your equipment is in top condition, safeguarding occupational health and safety. Don't compromise on safety; make sure your masks are in proper physical condition with our NEW Respirator Leak Tester.

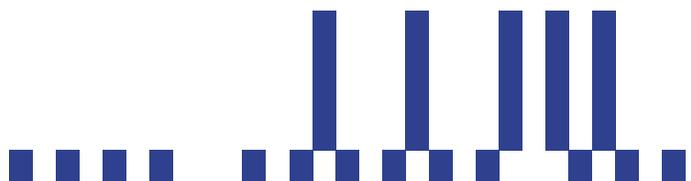
The comprehensive Respirator Leak Tester 8119A comprises a base plate, a flow distribution block, a head form, and software.

Features and Benefits

- **Compatibility:** Designed specifically for use with the Automated Filter Tester 8130A
- **Installation:** Fast and straightforward, requiring only two screws
- **Highly Sensitive Photometer:** The photometer technology detects even the tiniest increase in aerosol concentration due to damage or leaks
- **No Hardware or Firmware Changes Required:** Seamlessly integrates with your existing 8130A system
- **Faster Testing:** By using the hardware of the standard 8130A with higher flow rate and aerosol concentration, the tests can be performed faster compared to similar alternatives
- **Intuitive Software:** Data logging and charting shows locations of leaks in real time

Applications

- Eyepiece(s)
- Inhalation valve
- Exhalation valve
- Speaking diaphragm
- Cartridge threads
- Physical damage



Specifications

Respirator Leak Tester

Model 8119A

Challenge Aerosols

Generation Technique (oil) Using TSI® 1081414R family of oil generators: cold atomization of Emery oil, DOP, DEHS, Paraffin oil with felt conditioner. Oil (but not DOP) is recommended for ease of maintenance

Generation Technique (salt) Using TSI® 8118A family of salt generators: cold atomization of NaCl with impactor

Specifications See 8130A or generator manuals for baseline specifications at the plane of the chuck without the 8119A accessory. The size distributions and mass concentration measured at the probe outlet will differ due to losses through the flow block, probe, and choice of dilution flow

Aerosol Delivery Push-button Probe and selection of five (5) tips

Challenge Aerosol Detection

Technique Solid-state, forward light scattering photometer (downstream unit in 8130A)

Dynamic Range 1 µg/m³ to > 200 mg/m³

Aerosol Sampling TSI-supplied head form to mount masks and respirators; custom user-supplied adapters possible

Flow Measurement and Control

Technique Measured using Model 4045 TSI® flow meter, controlled by needle valve, both in 8130A

Range 0-110 L/min (tester maximum); default recommended value is 60 L/min

Accuracy 2% of reading or 0.05 SLPM, whichever is greater (8130A MFM specification)

Pressure Measurement and Control

Technique Probe pressure measured by differential pressure (resistance) transducer, controlled by dilution flow rotameter, both in 8130A

Range 0-255 mm H₂O; 210 mm H₂O is nominal recommended value

Accuracy 2% of full scale

Communications

Modbus TCP over ethernet connection with 8130A

Software

8119A software for control and data acquisition; user must supply their own PC to install software

Operating Requirements

Compressed Air Same as 8130A

Power Same as 8130A

Aerosol Venting Aerosol probe emits small amount of aerosol into the ambient, so a fume hood or extractor near head form work space is required. Otherwise, same as 8130A

Environmental Conditions Same as 8130A

Noise level

Same as 8130A

Dimensions (L x W x H)

(envelope, with head form installed)

19.5 in. x 9 in. x 11.5 in. (49.5 cm x 23 cm x 29 cm)

Weight

25 lbs. (11.34 kg)

To Order
Specify
8119A

Description
Respirator Leak Tester

Specifications are subject to change without notice.

TSI and the TSI logo are registered trademarks of TSI Incorporated in the United States and may be protected under other country's trademark registrations.



Knowledge Beyond Measure.

TSI Incorporated - Visit our website www.tsi.com for more information.

USA Tel: +1 800 874 2811 India Tel: +91 80 67877200
UK Tel: +44 149 4 459200 China Tel: +86 10 8219 7688
France Tel: +33 1 41 19 21 99 Singapore Tel: +65 6595 6388
Germany Tel: +49 241 523030