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LUKE ALEXANDER

A PREMIER FIRE SUPPRESSION CORPORATION



TEST EQUIPMENTS



HFC-227EA LEAK TESTER

Luke Test System is dedicated to providing our customer with superior quality leak testing system. With access to advanced designs, features and test algorithms in our leak tester devices, we promise a fast and reliable leak test product that will also provide repeatable results for air leakage, gas leakage, or any other leak where reliable testing equipment is needed. HFC-227ea Leak tester is critical to ensuring proper product quality, safety and performance.



LK 7972003

FEATURES

- LED Leak Size Indicators
- Two sensitivity positions, including our unique Scan Mode
- Reset Button for instant re-calibration
- Detachable probe
- High efficiency pump
- Detects All Halogenated Refrigerants, including R-410A
- Constant Power Indication
- Carrying case and spare sensing tip included

SPECIFICATIONS

- Ultimate Sensitivity: Less than 0.1 oz per year
- Power Supply: (2) 1.5VAC Batteries
- Probe/Cord Length: Probe: 14" (35cm) Cord: 36" (91.4cm)
- Operating Temperature 32°F -125°F (0°C -52°C)
- Battery Life: 30 hours
- Size: 7.75" x 3.20" x 12"
- Weight: 2.75lb



REFRIGERANT LEAK DETECTOR

Luke Portable leak detectors feature digital signal processing at tip 2000 times a second and detect all halogenated refrigerants. Test System is dedicated to providing our customer with superior quality leak testing system. Able to deplete the ozone layer that blocks the sun's harmful ultraviolet radiation. Refrigerant Leak tester is critical to ensuring proper product quality, safety and performance.



LK 7972008

Full featured but easy to use, the original TIF detector. The detector offers the detachable, flexible probe with micro-pump, leak intensity indicators, and all the features you have come to know and trust. Includes the patented SCAN mode that revolutionized leak detection.

FEATURES

- Tri-colour, six-segment visual leak size indicator display 18 alarm levels
- LED Leak Size Indicators
- Seven levels of sensitivity adjustments provide an increase of up to 64x including our unique ScanMode
- Battery test function with true voltage indication
- Mute feature silences audible alarm
- Reset Button for instant re-calibration
- Detachable probe
- High efficiency pump
- Detects ALL Halogenated Refrigerants, including R-410A
- Constant Power Indication
- Carrying case and spare sensing tip included
- Tactile keypad control

SPECIFICATIONS

- Power Source: 3V DC; 2 "C" cell alkaline batteries
- Ultimate Sensitivity: LK 7972008 - Less than 0.1 oz./yr. (3 g/yr.)
- Sensing Tip Life: Approx. 20 hours
- Operating Range: 30° to 125° F (0° to 52° C)
- Battery Life: LK 7972008 - Approx. 30 hrs.
- Duty Cycle: Continuous
- Response Time: Instantaneous
- Reset Time: One second
- Warm-up Time: Approx. 2 seconds
- Unit Weight: 1.2 lbs. (560 grams)
- Unit Dimensions: 9" x 2.25" x 2.25" (22.9 cm x 5.7 cm x 5.7 cm)
- Fixed Probe Length: 14" (35.5 cm)



CALIBRATION KIT

Calibration Kit contains calibration standards that measure the known devices of the system over the frequency range of interest to detect systematic errors.

Leak standards are available in either chlorine based R12 refrigerant or the new environmentally safe fluorine based R134a as a standard product. These standards can be used to accurately calibrate existing leak detector products that require an external accurate leak source. In addition, they are valuable instrument for verifying the accuracy of the new micro-processor based industrial leak detectors containing an internal leak standard for automatic self-calibration. Each model contains laboratory grade glass capillary tube which is matched to the refrigerant composition and the pressure required to provide an accurate test leak rate.



FEATURES

- Single-case solution for calibrating gas sensors and gas detectors
- lightweight, rugged, and easy to transport and store
- easy to used for quantitative measurements of actual leaks and background contamination than either the calibrated leak or leak capsule
- afford a high degree of accuracy for testing, calibrating or verifying the calibration accuracy of halogen leak detectors

LEAK RATES

Std. cc/sec	oz/year R12	oz/year R134a
3×10^{-5}	17×10^{-2} or (0.17)	14×10^{-2} or (0.14)
10×10^{-5}	5.6×10^{-1} or (0.56)	4.7×10^{-1} or (0.47)
10×10^{-4}	5.6×10^{-2} or (0.17)	4.7×10^0 or (4.7)



BUILDING AIR TIGHTNESS TESTING SYSTEMS

Blower Door tests are used to measure the air tightness level of building envelopes, diagnose and demonstrate air leakage problems, estimate efficiency losses from building air leakage, and certify construction integrity.

Blower Door Features

- Lightweight and rugged injection molded fan housing.
- Quick and accurate flow measurements from 300 to 6,300 CFM (141 to 2,973 l/s, 510 to 10,700 m³/h). Optional rings C, D and E will measure down to 11 CFM (5 l/s, 19m³//h)
- Solid state variable speed fan control.
- Compatible with both pressurization and depressurization testing.
- Fan flow is reversible for diagnostic testing.
- Both 110V and 220V models available

Multi-fan Blower Door Systems

Airtightness testing of larger buildings requires more fan flow. The Minneapolis Blower Door can be configured to install 2 or 3 fans in a single doorway, making it possible to measure the airtightness of almost any size room or building.

“Anatomy of the Minneapolis Blower Door”

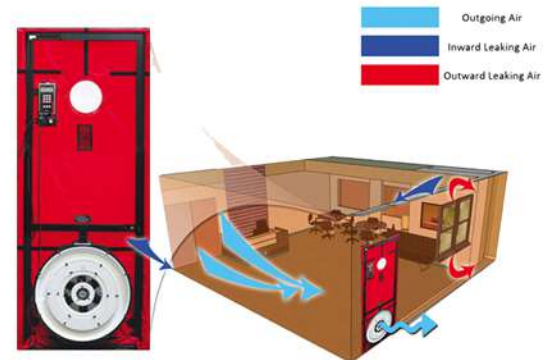
- Lightweight, Durable Door Frame and Panel
- DG-700 Pressure and Flow Gauge
- 2 Fan Speed Controller
- Powerful and Reliable Calibrated Fan
- Automated Testing Options

FST Digital Enclosure Test Kit

The FST Digital Enclosure Test Kit is designed specifically to satisfy the peak pressure and hold time requirements of NFPA 2001. The Minneapolis Blower Door™ has long been recognized as the best designed and supported building airtightness testing system in the world. Combined with specialized accessories and testing procedures developed by The Energy Conservatory, the Minneapolis Blower Door™ is the system of choice for utility DSM programs, energy raters, HVAC contractors and weatherization professionals.

FEATURES

- DG-700 Digital Pressure / Flow Gauge
- Direct Reading 4 Digit LCD Display
- Compact, 6300 CFM Fan
- Fully Collapsible Aluminum, Commercial Sized Door Frame
- EIT Quick Test 2001 Enclosure Integrity Test Software
- Handheld digital gauge, compact fan, collapsible aluminum frame
- Complete Test Kit





BUILDING AIR TIGHTNESS TESTING SYSTEMS

Blower Door Accessories and Options

Standard Minneapolis Blower Door Kit includes:

- Fan with variable speed controller and fan control cable
- Two flow rings (A and B) and No-flow plate
- DG-700 Pressure and Flow Gauge
- TECTITETM Building Airtightness Testing Software
 - Calculates building airtightness test results including leakage areas, ACH50, CFM50, building leakage curve, estimated natural and design infiltration rates and the estimated savings of air-sealing.
 - Compatible with both manual Blower Door tests and automated tests using a DG-700 or APT System.
 - Calculation procedures and reports are done in accordance with CGSB-149.10-M86. Mechanical ventilation requirements calculated in accordance with ASHRAE 62.2.
 - Easy to use data entry screens, file storage and file retrieval features.
 - RESNET testing options
- 16-foot (5 meter) USB cable
- Fabric door panel with viewing window
- Five piece adjustable aluminum door frame and frame case
- Padded attaché case for gauge, manuals, tubing, speed controller and fabric panel, with room for a laptop computer and other documents

Optional equipment includes:

- Wireless connection to your laptop using TEC WiFi Link.
- Smoke puffer
- Fan cases
- Pressure pans

We offer several case options to meet our customers' requirements. The hard cases shown below are rugged and are suitable for shipping the equipment from location by UPS or the airlines. They will also withstand the abuse of the equipment often receives when used by a number of different technicians. The soft, padded cases listed below are more compact and easier to carry but not quite as rugged.

Optional Cases

- | | |
|------------|---|
| LK 7967001 | Padded, zippered Cordura Blower Door Fan, Black |
| LK 7967002 | Padded attache case to hold gauges, manuals, hoses, speed controller and nylon frame cover with room for laptop computer and other documents. |
| LK 7967003 | Custom hard case for Blower Door Fan, room for drop cords, door cover and miscellaneous items, black. 24 1/4" x 11" x 27" case wt 26 lbs wiith fan 65 lbs. |
| LK 7967004 | Custom hard case for FST Special Door Frame, all-weather design with continuous "O" ring seal against water and dust. Heavy gauge molded HDPE with reinforced ribbing, six clamping latches and provision to add your padlock for security, black. Now with wheels and extra handle for easy portability. Supplied with foam for internal padding. 54 1/2" x 171/4" x 6" case wt. 20 lbs. with frame 41 lbs. |
| LK 7967005 | Custom hard case will hold gauges, manuals, hoses, speed controller and nylon frame cover with room for laptop computer and other documents. Matches all-weather design with continuous "O" ring seal against water and dust. Heavy gauge molded HDPE with reinforced ribbing, six clamping latches and provision to add your padlock for security, black. Now with wheels and extra handle for easy portability. Supplied with foam for internal padding. 20 3/4" x 161/4" x 9 1/2" case wt. 12 lbs. with control module 22 lbs. |





SMOKE PUFFER

Smoke Puffer is a major step forward in the design of smoke detector testers and is an essential tool when conducting a blower door test or duct leakage test. It is designed to deliver a generous plume of non-toxic fog to test for air flow in many applications. This smoke puffer cannot be used too close to the detector and eliminates harmful residue while focusing and targeting the canned smoke test gas.



: LK 7972006

FEATURES

- The smoke puffer uses a reactive chemical to produce a dense, white, neutral buoyancy smoke.
- Air-flow Direction
- Both recyclable and eco-friendly
- Meets global testing standards
- Pressure neutralization
- Backdraft, spillage and heat exchange leaks
- The extending sabre is made of 100% bio-degradable plastic making
- Lightweight & easy to use
- Cost effectively at a flick-of-the-wrist
- More tests per can
- Faster detector activation and clearing
- Lowest cost per test
- Ozone friendly, no CFCs and low GWP Detector manufacturer endorsement UL and ULC Listed

SPECIFICATIONS

- Weight : 150ml
- Dimensions : 7.60" x 1.96" (19.3 x 5 cm) diameter barrel
5.39" (13.7 cm) rubber extension tube