

# ROBINAIR FLUID PRODUCTS

## Refrigerant Leak Detectors

### TIFZX-1 Leak Detector

#### Features

- Patent pending Heated Pentode™ sensor technology.
- Refrigerant specific detection.
- Detects ALL halogenated refrigerants at levels below 0.1 oz./yr., as low as 0.05 oz./yr. for R-12.
- Tri-color visual leak size indication.
- Tactile keypad controls with one touch reset and adjustable sensitivity.
- True mechanical pump provides instant response and clearing.
- Sensor failure indication.
- Carrying case and re-charger included.
- Ni-MH rechargeable batteries.
- Revolutionary design.
- Certified to SAE J1627.
- Flexible stainless probe (16").
- CE approved.
- 25-year warranty.



TIFZX-1

#### Replacement Parts

- TIFZX-2** – Heated Pentode™ sensor.
- TIFZX-3** – 110V-60 Hz battery charger (North and South America).
- TIFZX-3E** – 230V-50Hz battery charger (Europe, Asia, Australia).
- TIFZX-3J** – 100V-50/60 Hz battery charger (Japan only).
- TIFZX-5** – Ballistic nylon carrying case.
- TIFZX-6** – Remote battery charging base, 110V-60Hz (optional).
- TIFZX-7** – Nickel-Metal Hydride (Ni-MH) battery pack (optional).
- TIFZX-8** – Filter elements (10 pack).
- TIFZX-9** – Probe tip.
- TIFZX-10** – Flexible probe (includes probe tip).
- TIFZX-11** – 12V DC cigarette lighter charger.
- TIFZX-14** – Maintenance kit: probe tip, filter, and o-ring.
- TIFZX-15** – Filter elements (5 pack).

#### Specifications

##### Sensitivity

Per SAE J1627 criteria: 0.5 oz./yr. (14 g/yr.) for R-134a, R-22, and R-12.

##### Ultimate Sensitivity

Less than 0.1 oz./yr. (3 g/yr.) R-134a, in high sensitivity; as low as 0.05 oz./yr. R-12 in low sensitivity.

##### Warm-up Period

20 seconds.

##### Operating Temperature

32° to 122° F (0° to 50° C).

##### Power Supply

Ni-Cad standard, Ni-MH optional.

##### Battery Recharge Time

2 hours, integral charge status indicator.

##### Failed Sensor Indication

All LEDs flash red, pump off.

##### Sensor Life

100 to 150 hours.

##### Battery Life

Standard Ni-Cad battery pack - 4 to 5 hours.

Optional Ni-MH battery pack - 5 to 6 hours.

##### Unit Dimensions

10.25" L x 2.5" Dia. (26 cm L x 6.5 cm Dia.)

##### Weight

Approximately 16 oz. (452 grams).

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### Back View

The gooseneck probe clips into a holder on the back of the unit for protection during storage and transit.

## Electronic Leak Detector

For all CFC, HCFC, and HFC Refrigerants

Robinair's electronic leak detector is ergonomically designed to fit in your hand. Holding it is natural and comfortable, and it fits into tight spots, so you can thoroughly check for leaks. No. 16600 is packed with features that help you pinpoint leaks quickly.

**One-Hand Operation** — The 16" gooseneck probe holds its position so you can operate the detector with one hand.

**Audible and Visual Leak Indicators** — An alarm increases in frequency as the tip gets close to a high concentration of refrigerant. LEDs are especially helpful when you're working in a noisy environment.

**Threshold Balancing Control** — Gives you infinite control for eliminating background contamination, so you can zero in on the leak site.

**Volume Control** — Adjust the audible leak signal to the volume that's right for the background noise in the shop or at the job site.

## Reliable Technology = Dependable Leak Detecting

No. 16600 uses proven corona discharge technology to sense leaks. It works by creating a high voltage corona in the sensing tip. When this field is interrupted by refrigerant, the alarm is triggered. All corona discharge leak detectors are not the same, however — the quality of key components is critical in providing an effective instrument.

## Transformer

To create the high voltage corona, the unit must "pump up" from the battery output to 2000 volts. It takes a specialized transformer to consistently provide this voltage, and ours is the result of years of testing and field use to ensure operation you can rely on.

**No. 16600** — Electronic leak detector.

## Specifications

Power Source .....	Four AA Alkaline batteries (included)
Battery Life .....	Approximately 25 hours
Dimensions .....	8-1/2" L x 3-1/4" W x 2" D
.....	(21.59 cm x 8.26 cm x 5 cm)
Probe Length .....	16 in. (40.6 cm)
Weight .....	1.14 lbs. (.52 kg) with batteries



## Sensing Tip

The materials, shape, and finish of the sensor and surrounding shell are critical to the effectiveness and life of the tip. Specially engineered tip is built with a mirror finish for superior sensitivity and durability.

**No. 16503** — Sensing tip.

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## Refrigerant Leak Detectors

### TIFXL-1A, TIFRX-1A, TIFXP-1A Leak Detectors

The revolutionary new "Generation X" line of TIF refrigerant leak detectors brings you tomorrow's technology today. We not only changed the way our leak detectors look, but the way to look at leak detectors. Innovative MPC circuitry and Advanced Digital Signal Processing monitor the sensing tip up to 2000 times per second. Automatic reset, true mechanical pump, and visual indicators (TIF XP-1 and TIF RX-1) speed and simplify leak searches.

A completely re-designed sensing tip increases sensitivity, improves reliability, and lasts twice as long as its predecessor. This results in fewer comebacks, less hassle, and lower maintenance costs. We are so confident in the design and quality of these detectors that they are backed by a warranty of up to 3-years!

#### All Models Feature

- Microprocessor controlled circuit with Advanced Digital Signal Processing.
- Detects ALL halogenated refrigerants.
- Certified to SAE J1627.
- Variable frequency audible alarm.
- CE approval.
- UL classified.
- Constant power indication.
- Cordless and portable; operates on two C-cell batteries.
- 14" (35.5 cm) flexible stainless steel probe with Teflon liner.
- Carrying case included, optional holster.
- Optional reference leak source.

#### Additional Features

##### TIFXL-1A

- Single switch control. • Two-year warranty.

##### TIFRX-1A

- Six-segment visual leak size indicator.
- True mechanical pump provides positive airflow through sensing tip.
- High and low sensitivity levels.
- One touch reset.
- Tactile keypad controls. • Two-year warranty.

##### TIFXP-1A

- Tri-color, six-segment visual leak size indicator displays 18 alarm levels.
- Seven levels of sensitivity adjustment provide an increase of up to 64x.
- Battery test function with true voltage indication.
- Mute feature silences audible alarm.
- True mechanical pump provides positive airflow through sensing tip.
- One touch reset.
- Tactile keypad controls.
- Three-year warranty.

#### Replacement Parts (all models)

TIFXP-2 – Maintenance kit (3 tips, 3 protectors).

TIFXP-4 – Deluxe carrying case.

TIFXP-5A – Battery cover.

[www.rossairworks.com](http://www.rossairworks.com)



Design Certified by MET Laboratories, Inc., to meet SAE J1627 for R-134a, R-12, and R-22.



U.S. Patent Nos.  
Re: 32,552; 4,282,521; 5,400,015

CLASSIFIED BY UNDERWRITERS  
LABORATORIES INC® ONLY TO INTRINSIC SAFETY IN CLASS 1  
GROUPS C & D HAZARDOUS  
LOCATIONS.

### Specifications

Power Source	3V DC; 2 "C" cell alkaline batteries
Ultimate Sensitivity	..... TIFXL-1A - Less than 0.4 oz./yr. (11g/yr.) ..... TIFRX-1A - Less than 0.25 oz./yr. (7g/yr.) ..... TIFXP-1A - 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	..... TIFRX-1A and TIFXP-1A – Approx. 30 hrs. ..... TIFXL-1A – Approx. 40 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)

Ross Air Works  
800-290-9798



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TIF5750A



Design Certified by MET Laboratories, Inc. to meet SAE J1627 for R-134a, R-12, and R-22.

U.S. Patent Nos. Re: 32,552; 4,282,521; 5,400,015

### Specifications

Operating Temp	30° to 125° F (0° to 52° C)
Power Source	(2) 1.5V "C" batteries
Battery Life	30 hrs. (alkaline)
Response Time	Instantaneous
Warm-up Time	5 to 6 seconds
Reset Time	One second
Probe/Cord Length	Probe = 14" (35 cm) Cord = 36" (91.4 cm)
Dimensions	8" x 3" x 1.8" (20 cm x 7.6 cm x 5 cm)
Weight	20 oz. (560 grams)
Maximum Sensitivity	0.5 oz./yr. for R-12, R-22 & R-134a per SAE J1627 criteria
Ultimate Sensitivity	Less than 0.25 oz./yr.

### TIF5750A Super Scanner™ Refrigerant Leak Detector

Full featured but easy to use, this is the original TIF detector. The TIF5750A 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

- LED leak size indicators.
- Two sensitivity positions, including our unique ScanMode.
- Reset button for instant re-calibration.
- Detachable probe.
- High efficiency pump. • Certified to SAE J1627.
- Detects ALL halogenated refrigerants.
- SAE classified for intrinsic safety.
- Constant power indication.
- Cordless and portable; operates on two C-cell batteries.
- 14" (35.5 cm) flexible, stainless probe.
- Carrying case and spare sensing tip included.
- One-year warranty.

TIF5750A – Refrigerant leak detector.

TIF548 – Custom molded carrying case.

TIF555 – Maintenance kit (3 tips, 3 protectors).

TIF560 – Sensing tip bulk pack (25 pieces).

TIF5201A – Leak source.



TIFH10A



Design Certified by MET Laboratories, Inc. to meet SAE J1627 for R-134a, R-12, and R-22.

### A/C Pump Style Refrigerant Leak Detector

This AC powered Leak Detector is ideal for continuous use and/or bench testing. It has a sensitivity adjust knob for "Fine Tuning." A unique probe with pump and a built-in neon light. Audible alarm and visual indication on all CFC, HCFC, and HFC leaks.

#### Features

- High efficiency pump
- Dual sensitivity positions
- Visual indicator in probe
- Built-in carrying case
- Powered by 115 volts AC (220V available)

TIFH10A – A/C pump style refrigerant leak detector.

TIF555 – Maintenance kit (3 tips, 3 protectors).

TIF5201A – Leak source.

#### Specifications

Operating Temp	30° to 125° F (0° to 52° C)
Power Supply	115V AC/60 Hz (230V 50 Hz)
Response Time	Instantaneous
Warm-up Time	30 seconds
Probe/Cord Length	36" (91.4 cm)
Dimensions	8.5" x 5" x 3.75" (21.6 cm x 13 cm x 8 cm)
Weight	3.1 lbs. (1.4 kg)
Maximum Sensitivity	0.5 oz./yr. for R-12, R-22, & R-134a per SAE J1627 criteria
Ultimate Sensitivity	Less than 0.25 oz./yr.

