

750a and 753a Refrigerant Leak Detector

Delivering test and measurement advantages for HVAC/R professionals worldwide

Test the TPI advantage



APPLICATIONS

Whether testing for leaks in air conditioning, refrigeration, or automotive AC, the versatile 700 series spans the diverse needs of technicians, refrigeration engineers, and maintenance personnel around the globe. From freezer coils to heat pumps, experience fast, reliable results that save you both time and money.

- **Detects all existing refrigerants and blends including 404A, PURON 410A and *R-507 (AZ50).**
- **400 hour individual sensor life; a spare sensor is included with each instrument for a total of 800 hours of continuous sensor use.**
- **Fast response; Begin testing immediately after power on**



750a: 0.2 oz/yr sensitivity

753a: 0.1 oz/yr sensitivity

Turn over for
technical
information
and accessory
part numbers.

The
Value
Leader™

Features

- Pinpoint small leaks easily by elimination of background concentration with fully adjustable tic rate
- Visual indicators for power, tic rate and battery replacement
- One-hand operation
- Optional earphone attachment

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TECHNICAL SPECIFICATIONS AND ACCESSORIES

- Digital Multimeters
- Clamp Meters
- Hand-held Oscilloscopes
- Refrigerant & Combustible Gas Leak Detectors
- Temperature Testers
- BNC Coax Cable
- Connectors
- Test Leads
- Accessories

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SPECIFICATIONS

Features and Functions	750a	753a
Sensitivity in Ounce Per Year R22 or R134a	0.2	0.1
Pump	NA	Yes
Scan Mode with Switchable	Yes	Yes
High/Low Sensitivity	Yes	Yes
Sensor Type	Corona discharge	AIT micro tip
Spare Sensor Included	Yes	Yes
Built-in Alarm	No	No
Operation	Thumb wheel	Push Button
Gooseneck Handle Length	16"	16"
Adjustable Tic Rate	Yes	Yes
Indication of Leak	Audible and flashing LED	Audible and flashing LED
Battery Included	Yes, 2 C-cell	Yes, 2 C-cell
Standard Carrying Case	A700 Soft pouch	A700 Soft pouch
Optional Accessories	A713 0.5 ounce per year test vial A710 Earphone A712 Sensor for the 750a A721 Sensor for the 753a	

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FAQ

1. Will TPI refrigerant leak detectors pick up the new 410A PURON refrigerants?

Yes, all of the 700 series refrigerant leak detectors pick up current refrigerants and blends, including 404A and 410A (PURON).

2. Should I buy a thumb wheel "tic" adjust or push button "tic" adjust?

The thumb wheel gives you a manual adjustment and the push button adjusts to preset levels. Both are easy to use and work equally well. It's simply a matter of personal preference.

3. Why would I want a pump on my refrigerant leak detector?

Generally, refrigerant leak detectors with pumps respond and clear faster as you enter or leave the leak area. This is most important when locating small leak

4. I have a hard time finding a leak when on a rooftop in windy conditions. Will I be able to find a leak in the conditions with your refrigerant leak detector?

Always remember that the refrigerant will travel with the wind. Position yourself down wind and work your way "up stream" in order to trace down a leak. The harder the wind is blowing, the more the concentration of refrigerant will be diluted in the air. It is difficult to find these leaks, but it can be done.

5. Is there a way to determine how many parts per million (ppm) a leak of 0.1 ounce per year (oz/yr) is?

A leak of 134a refrigerant measuring 0.1 oz/yr is equivalent to approximately 380 to 400ppm. A leak measuring 0.2oz/yr is equivalent to approximately 760 to 800ppm.

6. Can any TPI refrigerant leak detectors to be used to test for SF6?

Sulfur hexafluoride (SF6) is used in high voltage insulation as found in high voltage lines and circuit breakers. SF6 is toxic and emitted into the air when high voltage insulation begins to degrade. The 753a will detect SF6 at a level of 750ppm or higher.