750a, 753, 755 Refrigeration Leak Detectors

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.

Turn over for technical information and accessory part numbers.

The Value Leader™

The 700 series automatically detects all existing refrigerants and blends including 404A, PURON® 410A and *R-507 (AZ50).

750A: 0.3 sensitivity **753: 0.2 sensitivity** **755: 0.1 sensitivity**

Features

- Fully adjustable tic rate to eliminate background concentration and pinpoint leaks
- Visual and audible tic rate
- Optional earphone attachment
- One hand operation

750a, 753, 755 Refrigeration Leak Detectors

SPECIFICATIONS

Features and Functions	750a	753	755
Sensitivity in Ounces Per Year R22 or R134a	0.3	0.2	0.1
Pump	NA	Yes	Powerful diaghram
Scan Mode with Switchable High/Low Sensitivity	Yes	Yes	Yes
Sensor Type	Corona discharge	AIT micro tip	AIT micro tip
Spare Sensor Included	Yes	Yes	Yes
Built-in Alarm	No	No	Yes
Operation	Thumb wheel	Push Button	Push Button
Gooseneck Handle Length	16"	16"	16"
Adjustable Tic Rate	Yes	Yes	Digitally controlled
Indication of Leak	Audible and flashing LED	Audible and flashing LED	Audible and flashing LED
Battery Included	Yes, 2 C-cell	Yes, 2 C-cell	Yes, 2 C-cell
Standard Carrying Case	A700 Soft pouch	A700 Soft pouch	A755 Soft carrying case with shoulder strap
Optional Accessories	**A713** 0.5 ounce per year test vial **A710** Earphone **A712** Sensor for the 750a **A721** Sensor for the 753 & 755		

FAQ RLD

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

What is the advantage of the AIT micro tip used in the 753 and 755?
The Advanced Ionization Technology (AIT) micro tip provides increased stability over a standard corona discharge tip. This enables the use of an internal pump to draw the sample across the sensor, increasing overall sensitivity and response of the 753 and 755 detectors.

The 753 and 755 both use AIT micro tips and have pumps. Why is the 755 more sensitive?
The 753 uses a standard duty pump to pull the sample at a medium rate across the sensor. The 755 uses a heavy duty diaphragm pump to pull the sample at a fast rate across the sensor. The difference in sample rate makes the 755 more sensitive.

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.

Why would I want a pump on my refrigeration leak detector?
Generally, refrigeration leak detectors with pumps respond and clear faster as you enter or leave the leak area. This is most important when locating small leaks.

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.

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.

Can any TPI refrigerant leak detectors to be used to test for SF6?
Sulfer 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 755 will detect SF6 at a level of 750ppm or higher.

Is there anything I can do to extend the life of the sensor?
Even though the sensors are very durable, you can extend the sensor life of your leak detector by press fitting a ½" long piece of vinyl tubing onto the sensor tip. This will help prevent foreign material from getting into the sensor during tests. Clean or replace the tube regularly.

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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To learn about the entire line of TPI products visit:

www.tpi-thevalueleader.com

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