

# d-tek select

## Refrigerant Leak Detector

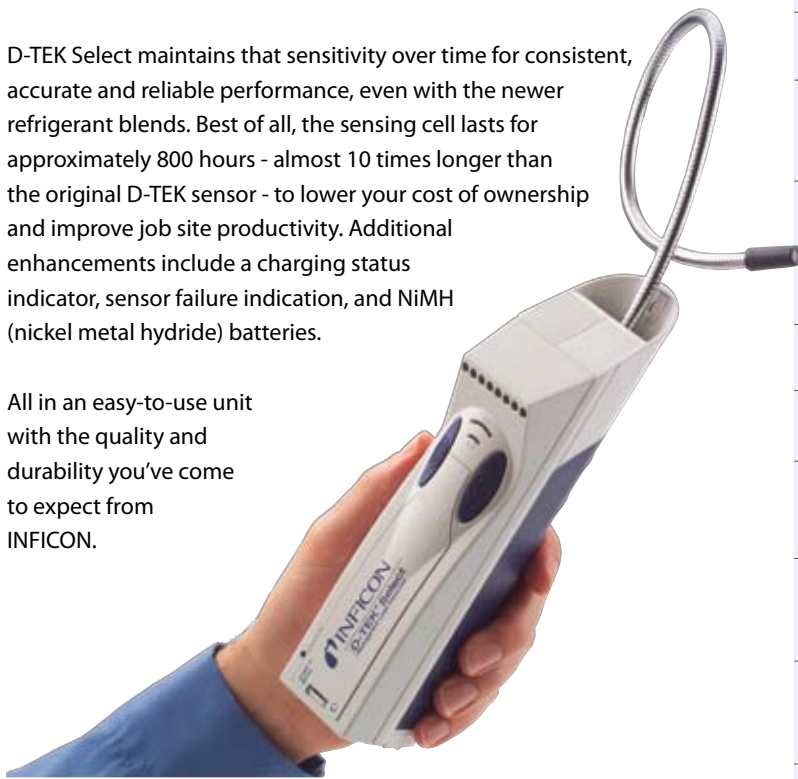
INNOVATIVE INFRARED TECHNOLOGY DELIVERS  
ENHANCED SENSITIVITY, SELECTIVITY AND LONGER LIFE

As the first accurate, reliable, highly sensitive, cordless refrigerant leak detector, the original D-TEK revolutionised the field.

Now we have built on that technology leadership to create D-TEK Select. This next-generation refrigerant leak detector uses an innovative infrared absorption sensing cell that is extremely sensitive to all refrigerants - and only refrigerants.

D-TEK Select maintains that sensitivity over time for consistent, accurate and reliable performance, even with the newer refrigerant blends. Best of all, the sensing cell lasts for approximately 800 hours - almost 10 times longer than the original D-TEK sensor - to lower your cost of ownership and improve job site productivity. Additional enhancements include a charging status indicator, sensor failure indication, and NiMH (nickel metal hydride) batteries.

All in an easy-to-use unit with the quality and durability you've come to expect from INFICON.



Specification	
Sensitivity to HCFC's & HFC's as per EN14624	Detector fixed position R22 - 1gram/year, R410A - 1gram/year Detector moving position R22 - 1gram/year, R410A - 1gram/year
Controls	Power: on/off, Sensitivity: high/low
Weight with power stick	0.54kg (1.19 lb)
Power	NiMH power stick for 5 hours of operation
Charging options	- 230VAC adaptor with 1.8M cord - 12V adaptor with cigarette lighter plug
Probe Length	43cm (17")
Recharger	Built In
Operating temperature range	0°C to 50°C
Storage temperature range	-10°C to 60°C
Certifications	CE marking power safety and EMC. SAEJ1627
Warranty	2 year replacement

## Features at a Glance

- 3 grams/year sensitivity
- Equally sensitive to all refrigerants, including R-22, R-134a, R-404a, R-410a, R-507 and all CFCs, HCFCs and HFCs
- 800-hour infrared cell life for low cost of ownership
- Infrared cell does not weaken over time, so response remains consistent and accurate
- Infrared cell cannot be overloaded or "poisoned" by exposure to large amounts of refrigerant.
- Selective to refrigerants only; will not react to smoke, humidity, airflow or temperature changes.
- High-efficiency air sampling pump provides quick response and quick clearing ("zeroing").
- On-board diagnostics indicate charging status and warn of low battery or infrared cell failure.
- NiMH power stick is environmentally friendly, will not corrode, and provides greater charging capacity.
- Includes hard plastic case, NiMH power stick, 12V and 230V adaptor/recharger, tip filters and infrared cell.

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## Technical Notes

At the heart of the D-TEK Select Refrigerant Leak Detector is an infrared absorption filterometer. It consists of a sampling cell with an infrared source (or emitter) at one end, an infrared energy detector at the other end, and an optical filter in between them.

The infrared source (emitter) creates a high-intensity stream of energy that passes through the optical filter blocking all wavelengths except those that refrigerants absorb. The filtered infrared energy strikes the detector and causes it to heat up. When refrigerant is drawn through the sampling cell by the internal pump, some of the infrared energy is absorbed by the refrigerant. This causes a decrease in the amount of infrared energy reaching the detector and a corresponding drop in the detector's temperature, which triggers the D-TEK Select to alarm. This whole process takes a fraction of a second.

By utilising an optical filter with precise characteristics, INFICON has made D-TEK Select sensitive to all refrigerants, while eliminating false alarms. The detector recovery time is also immediate after the refrigerant clears the cell.

## Accessories

712-202-G5	Standard 230V model
032-404	Headphones
703-055-P1	12V power cord with cigarette lighter plug
054517	Replacement 230V adaptor and cord
712-700-G1	Replacement NiMH power stick
712-701-G1	Replacement infrared cell
705-600-G1	Replacement tip/filter kit
712-702-G1	Replacement hard storage case