

INFICON Service Tools

Catalog 25



Tools You Can Rely On™ 💽

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INFKON

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Leak Detector Selection Guide



D-TEK Stratus[™]

REFRIGERANT LEAK DETECTOR AND PORTABLE MONITOR

Find profit-crushing leaks in no time.

D-TEK Stratus combines the excellent leak detection of D-TEK Select and the cloud hunting capability of a large portable monitor all in one hand-held unit. Quickly locate the area containing the leak using the large, easy-to-read LCD display, and then pinpoint the leak with one instrument! D-TEK Stratus is the next big thing in refrigerant leak detection.

PATENT PENDING

Leak Detector Selection Guide on page 19

A2L CERTIFIED

2 marcono

COMING SOON

EN14624

CE



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SPECIFICATIONS

Includes	D-TEK Stratus Infrared sensor Lithium ion battery Spare filters AC wall charger DC car charger Extra-long probe Carrying case Earbuds
Compatible refrigerants	R22, R32, R134a, R404a, R407c, R410a, R422b, R448a, R449a, R452a, R452b, R507 (AZ50), R1234yf, CO ₂ (requires CO ₂ sensor) ammonia, SF6, and more
Sensitivity per EN14624	1g/yr.
Power source	Lithium ion battery (rechargeable) USB (can operate while charging)
Battery life	~8 hours (cloud hunting mode) ~10 hours (pinpoint mode)
Weight	490 g
Certifications	CE SAEJ2791 SAEJ2913 EN14624:2012 A2L certified
Probe length (standard probe)	38 cm
Warranty	Two-year

ORDERING INFORMATION

D-TEK Stratus	724-202-G11
Accessories and I	Replacement Parts
Earbuds	721-607-G1
TEK-Check R134a reference leak	703-080-G10
Wall charger (US and international)	721-606-G1
12 V (dc) car charger	721-605-G1
Lithium ion battery	721-702-G1
Battery charging cradle	721-610-G1
Battery/cradle combo	721-604-G1
Extra-long probe	721-611-G1
Needle probe extension	721-612-G1
Refrigerant sensor (Detects CFCs, HFCFs, HFCs, and HFOs)	721-701-G1
CO ₂ sensor	Coming soon
Filter cap	712-705-G1
Filter cartridges	712-707-G1
Carrying case	724-700-G1



DUAL MODES HELP FIND THE LEAK FASTER

Use the new cloud hunting mode (left) to find the area highest in concentration, then switch to classic pinpoint mode (right) to pinpoint the leak.

ADVANTAGES

- Sensitivity of 1 g/year
- Innovative cloud hunting mode with ppm readout helps locate leaks faster than ever
- Cloud hunting and pinpoint modes is like having two leak detectors in one
- Detects all CFCs, HCFCs, HFCs, and HFOs
- All new, redesigned infrared sensor
 - Longest sensor life in the industryEasy field replacement
- New lithium ion battery
 - Quick charge capability
 - Easy field replacement
- Automatic and manual zero modes
- Sensitivity will not degrade over time
- Rugged carrying case included



WATCH OUR VIDEO!

D-TEK® Select

REFRIGERANT LEAK DETECTOR

Infrared technology for superior sensitivity and long life.

D-TEK Select has been a leader in the HVAC/R service field for over a decade. Superior sensitivity, accuracy, and reliability help you find even the smallest leaks fast. A rechargeable battery, field-replaceable infrared sensor, and high performance filter make D-TEK Select a must in any technician's toolbox.

Leak Detector Selection Guide on page 19



SPECIFICATIONS

Includes	D-TEK Select Infrared sensor Rechargeable NiMH battery Spare filters AC wall charger DC car charger Carrying case
Compatible refrigerants	R22, R32, R134a, R404a, R407c, R410a, R422b, R448a, R449a, R452a, R452b, R507 (AZ50), R1234yf, ammonia, SF6, and more
Sensitivity per EN14624	1 g/yr.
Power source	NiMH battery (rechargeable) Can operate while charging
Battery life	6,5 hours
Weight	490 g
Certifications	CE SAEJ2791 SAEJ2913 EN14624:2012 A2L certified
Probe length	38 cm
Warranty	Two-year

D-TEK Select (230 V)	712-202-G11
Accessories and Re	
Headphones	032-0430
Premium headphones	032-0427
TEK-Check R134a reference leak	703-080-G10
230 V (ac) wall charger	033-0020-G1
12 V (dc) car charger	703-055-P1
Replacement NiMH battery	712-700-G1
Replacement sensor	712-701-G1
Filter cap	712-705-G1
Filter cartridges	712-707-G1
Carrying case	712-702-G1

- Sensitivity of 3 g/year
- Detects all CFCs, HCFCs, HFCs, and HFOs
- Field-replaceable infrared sensor lasts for 1,000 hours
- High performance filter prevents sensor contamination
- Automatic and manual zero modes
- Sensitivity will not degrade over time
- Rechargeable NiMH battery
- Rugged carrying case included



TEK-Mate[®]

Find leaks fast.

Affordable price, simple operation, and reliable performance make TEK-Mate the refrigerant leak detector of choice for thousands of technicians. See for yourself why TEK-Mate is the #1 refrigerant leak detector for many HVAC/R technicians.

Leak Detector Selection Guide on page 19



- Sensitivity of 2 g/year
- Detects all CFCs, HCFCs, HFCs, and HFOs
- Proven heated diode sensor for reliable leak checking
- No false alarms from soap solutions
- Runs on two D-cell batteries
- Rugged carrying case included

SPECIFICATIONS	•
Includes	TEK-Mate Heated diode sensor Two D-size alkaline batteries Spare filters Carrying case
Compatible refrigerants	R22, R32, R134a, R404a, R407c, R410a, R422b, R448a, R449a, R452a, R452b, R507 (AZ50), R1234yf and more
Sensitivity per EN14624	2 g/yr.
Power source	Two D-size alkaline batteries
Battery life	16 hours
Weight	700 g
Certifications	CE SAEJ1627 EN14624:2012 A2L certified
Probe length	38 cm
Warranty	Two-year

ORDERING INF	ORMATION
TEK-Mate	705-202-G11
Accessories and	Replacement Parts
TEK-Check R134a reference leak	703-080-G10
Sensor	703-020-G1
Filters	705-600-G1
Carrying case	705-700-G1



TEK–Check[™]

REFERENCE LEAK

The trusted leak source.

TEK-Check is a reference leak source that leaks R134a refrigerant at a rate of 5 to 9 g/a (depending on environmental conditions). It is an easy and dependable way to check the functionality of your leak detectors.

TEK-Check is a great tool to ensure your leak detector is working properly between yearly service checks according to EN 14624. Compact size and ease of use make TEK-Check a safe and convenient accessory for your refrigerant leak detector.

SPECIFICATIONS

Dimensions	9.5 x 3 x 3 cm
Weight	80 g
Warranty	Two-year

ORDERING INFORMATION

TEK-Check

703-080-G10

- Leak rate of 5 9 g/a (depending on environmental conditions)
- Minimum two-year life
- Verify leak detector operation between yearly EN 14624 certifications
- Small and compact; Easily fits in D-TEK or TEK-Mate carrying case





D-TEK[®] CO₂ REFRIGERANT LEAK DETECTOR

Reliable and accurate leak detection for carbon dioxide.

Many next generation refrigeration systems use carbon dioxide (R744) as a refrigerant due to its low impact on the environment. Standard leak detectors will not detect CO_2 leaks, but D-TEK CO_2 does. Designed specifically for CO_2 refrigeration and AC applications, D-TEK CO_2 will help you find leaks quickly and reliably on next generation systems.

Leak Detector Selection Guide on page 19



ADVANTAGES

- Sensitivity of 5 g/year for R744 (CO₂)
- Field replaceable infrared sensor delivers 1,000 hour sensor life
- Sensitivity will not degrade over time
- Automatic and manual zero modes
- Manual zero mode helps reduce false alarms from high CO₂ background levels
- Runs on rechargeable battery or AC adapter
- Rugged carrying case included

SPECIFICATIONS

Includes

Includes	D-TEK CO ₂ with CO ₂ specific infrared sensor NiMH rechargeable battery Spare filters AC wall charger DC car charger Carrying case
Compatible refrigerants	CO ₂ (R744)
Minimum sensitivity	5 g/yr.
Power source	NiMH battery (rechargeable) Wall/car charger (can operate while charging)
Battery life	6,5 hours
Weight	540 g
Certifications	CE
Probe length	38 cm
Warranty	Two-year

D TEK CO. with CO. specific

ORDERING INFORMATION

D-TEK CO ₂ (230 V)	716-202-G11
Accessories and R	Replacement Parts
Headphones	032-0430
Premium headphones	032-0427
230 V (ac) wall charger	033-0020-G1
12 V (dc) car charger	703-055-P1
NiMH battery	712-700-G1
Sensor (CO ₂)	716-701-G1
Filter cap	712-705-G1
Filter cartridges	712-707-G1
Carrying case	716-702-G1



GAS-Mate®

COMBUSTIBLE GAS LEAK DETECTOR

Safely detect combustible gas and flammable refrigerant leaks.

GAS-Mate is an intrinsically safe combustible gas leak detector that can safely and reliably detect leaks of combustible gases, flammable refrigerants, and hydrogen forming gas. It is a versatile tool for use in heating, air conditioning, refrigeration, and automotive applications. You can leak check with confidence knowing GAS-Mate is backed by an industry-best threeyear warranty.

Leak Detector Selection Guide on page 19



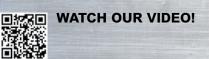


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Includes	GAS-Mate Combustible gas sensor Two D-size alkaline batteries Carrying case
Compatible gases and refrigerants	Propane (R290), isobutane (R600a), R441a, hydrogen forming gas (95/5), natural gas, methane, ammonia, and more
Sensitivity	5 ppm for methane, propane (R290), isobutane (R600a), and hydrogen 1 ppm for gasoline
Power source	Two D-size alkaline batteries (use Duracell® MN1300 to maintain intrinsically safe approval)
Battery life	25 hours
Weight	700 g
Certifications	CE Intrinsically safe for Class I, Division I, Groups A - D, T4 and II 3G Ex nA nL IIC T4 X as per MET Laboratories Listing #E112145
Probe length	38 cm
Warranty	Three-year

ORDERING INFORMATION		
GAS-Mate	718-202-G11	
Accessories a	nd Replacement Parts	
Sensor	706-700-G1	
Carrying case	718-701-G1	

- Detects natural gas, propane, isobutane, ammonia, hydrogen forming gas (95/5), and more
- Ultimate sensitivity of 5 ppm for methane, R290 (propane), and R600a (isobutane)
- Intrinsically safe for use in combustive/ explosive environments
- Great for flammable refrigerants like R290, R600a, and R441a
- Runs on two D-cell batteries







Whisper[®] **ULTRASONIC LEAK DETECTOR**

Can you hear the leak? We can.

Whisper uses ultrasonic technology to listen for the sound of a gas moving through a leak site, making it a super versatile tool for leak checking ANY gas in pressurized or vacuum systems. The optional accessory kit adds even more functionality, allowing for leak checking of door seals, ducts, steam traps, and mechanical parts like bearings. With its wide range of applications, Whisper is a great tool to have on hand.

Leak Detector Selection Guide on page 19



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MADE IN USA

checking mechanical

parts like worn bearings

window seals

• Whisper Transmitter for checking door and

	EOI	0.45	
512		CAT	

Whisper includes	Whisper Headphones Rubber extension probe Two D-size alkaline batteries Carrying case
Whisper with accessory kit includes	Whisper Premium headphones Metal contact probe Whisper Transmitter (with battery) Rubber extension probe Two D-size alkaline batteries Carrying case
Power source	Two D-size alkaline batteries
Battery life	165 hours (laser pointer off) 115 hours (laser pointer on)
Weight	482 g
Certifications	CE
Warranty	Two-year

ORDERING INFORMATION

Whisper	711-202-G11
Whisper with accessory	kit 711-203-G11
Accessories and	Replacement Parts
Headphones	032-0430
Premium headphones	032-0427
Whisper Transmitter	711-600-G1
Contact probe	711-703-G1
Carrying case	711-701-G1
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ADVANTAGES

- Detects pressure and vacuum leaks for all gases
- Works even in noisy environments
- Laser pointer makes it easier to pinpoint the leak
- Applications include pressure/vacuum leaks, electrical arcing, malfunctioning steam traps and more!
- Only technology to detect pressurized nitrogen leaks
- Rugged carrying case included



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CO Check®

CARBON MONOXIDE METER

Superior accuracy for peace of mind.

CO Check is a reliable and affordable tool to measure the carbon monoxide (CO) level in your immediate environment. A large display indicates the ppm level of CO in the environment and audible alarms and colored indicators alert if dangerous levels of CO are present. CO Check is a great companion for any technician's toolbox.



TINFICON

1-999 PPM RANGE

SPECIFICATIONS

Includes	CO Check 9 V alkaline battery Holster case
Battery life	200+ hours
Power source	9 V alkaline battery
Range	1 to 999 ppm
Display resolution	1 ppm
Accuracy	3% of reading ±1 ppm
Auto shut-off	20 min.
Alarm indicators	Variable speed audio alarm, colored LEDs, ppm display
Dimensions (with holster)	16,0 x 9,7 x 5,1 cm
Weight (with holster)	250 g
Warranty	Two-year

ORDERING I	NFORMATION
CO Check	715-202-G1
Accessories a	and Replacement Parts
Holster case	715-400-P1

ADVANTAGES

- Best-in-class accuracy for peace of mind Simple operation for ease of use
 Bright, colored indicators and audible alarm for quick hazard recognition
- Large, easy-to-read display
 - Runs on one 9 V battery
 - MAX feature retains the highest reading for easy multitasking
 - Padded holster with belt clip for hands-free use

CARBON MONOXIDE:

- · is generated by poorly maintained fuel-burning appliances
- kills over 200 people each year*
- is colorless, odorless and tasteless
- can cause poisoning, which mimics the symptoms of the flu but can be fatal with high CO exposure levels (such as above 100 PPM)
- can be harmful even at low exposure levels—even single digit PPM readings

*from the Consumer Product Safety Commission



Wey–TEK[™] REFRIGERANT CHARGING SCALE

Accurate and reliable readings for years to come.

The Wey-TEK Refrigerant Charging Scale truly is a tool you can rely on. Simple operation, outstanding durability, and great accuracy make Wey-TEK a great choice for any technician. A large weighing platform, 100 kg capacity, and competitive price make Wey-TEK a great value. See why Wey-TEK is the most requested refrigerant scale on the market.



ADVANTAGES

- 100 kg capacity
- Large, all-metal platform for durability
 and versatility
- High accuracy load cell will not drift
- Easy-to-use handpiece with detachable communications cable
- Displays measurements in kg, decimal lb., or lb./oz.
- Rugged carrying case included

SPECIFICATIONS

Includes	Wey-TEK weighing platform with wired control handpiece 9 V alkaline battery Carrying case
Weighing capacity	100 kg
Accuracy	±0,3% of reading 10 g
Display resolution	10 g
Display type	LCD
Display units	kg, lb., or lb./oz.
Power source	9 V alkaline battery
Battery life	60 hours
Weight (in case)	4,1 kg
Weighing platform dimensions (W x L)	31,1 x 27,3 cm
Warranty	Two-year

ORDERING INFO	RMATION
Wey-TEK	713-202-G1
Accessories and F	Replacement Parts
Replacement weighing platform	713-700-G1
Replacement control handpiece	713-701-G1
Replacement cable	600-1274-P1
Carrying case	713-703-G1



Wey–TEK HD Wireless[™]

REFRIGERANT CHARGING SCALE

Wireless freedom meets superior durability.

Wey-TEK HD Wireless takes the rugged performance of Wey-TEK and goes a step further. With a large, rubberized weighing platform, capacity of 115 kg, and Bluetooth® wireless technology for use with an optional handpiece or free smartphone app, Wey-TEK HD Wireless will help you save time and money by getting you to the next job quickly.

🚯 Bluetooth





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HD Wireless'

250

1 Units 1 Menu

Zero

0.0002



ADVANTAGES

- 115 kg capacity
- Real-time measurements from your smartphone or tablet*
- High accuracy load cell won't drift
- 10 m Bluetooth[®] range
- Displays measurements in kg, lb., lb./oz., or oz.
- Alarm mode allows you to multitask on the job
- Save and e-mail job logs for refrigerant tracking**
- * Compatible with iPhone[®] 4s and above. Compatible with Android[™] 2.2 and above.
- ** Job logs and email only available using smartphone or tablet



OUR VIDEO!

SPECIFICATIONS

	202 model	203 model
Includes	Wey-TEK HD Wireless Four AA-size alkaline batteries Carrying case	Wey-TEK HD Wireless Bluetooth handpiece Eight AA-size alkaline batteries Carrying case
Weighing capacity	11:	5 kg
Accuracy	±0,06% of r	reading ±10 g
Display resolution	11	0 g
Display type	User provided smartphone/tablet	Full color LCD or user provided smartphone/tablet
Display units	kg, lb., lb./oz., or oz.	
Power source	Four AA-size alkaline batteries (base)	Four AA-size alkaline batteries (base Four AA-size alkaline batteries (handpiece)
Battery life	80 hours (base)	80 hours (base) 100 hours (handpiece)
Weight (in case)	3,7 kg	4,1 kg
Weighing platform dimensions (W x L)	31,1 x	27,3 cm
Certifications	CE, IPx4 water resistant	
Warranty	Two-year	

ORDERING INFORMATION

Wey-TEK HD Wireless	719-202-G1	
Wey-TEK HD Wireless		
with Handpiece	719-203-G1	
Accessories and	Replacement Parts	
Handpiece only	719-715-G1	
Carrying case	719-701-G1	



Vortex Dual[®]

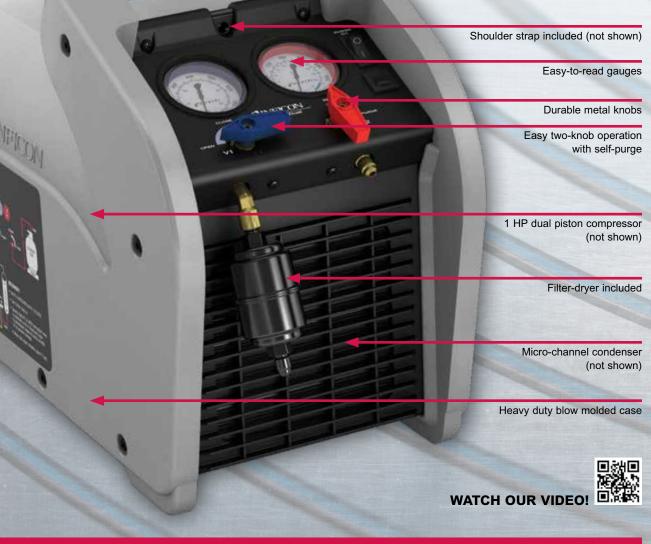
REFRIGERANT RECOVERY MACHINE

The most powerful unit available with the best warranty in the industry.

Vortex Dual is INFICON's best refrigerant recovery machine yet! Complete your job with confidence knowing Vortex Dual will perform with industry-leading recovery rates and an unsurpassed three-year warranty. Vortex Dual is truly a tool you can rely on.



- Achieve industry-leading recovery rates with a powerful 1 HP dual piston compressor
- Microchannel condenser provides exceptional heat exchange in high temperatures
- Two valve operation with self-purge for ease of use
- Large, easy to read gauges
- Heavy duty blow molded case
- Fully serviceable
- Shoulder strap included for easy transport

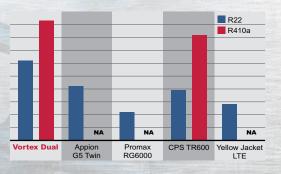


SPECIFICATIONS

Includes	Vortex Dual Shoulder strap Filter/dryer Detachable power cord
Compatible refrigerants	Commonly used CFCs, HCFCs, HFCs, and HFOs including R410a, R12, R22, R32, R134a, R404, R407c, R500, R502, R1234yf, *Not recommended for use with flammable (HC) refrigerants
Weight	13,5 kg
Dimensions (L x W x H)	42,4 x 23,4 x 36,1 cm
Compressor	1 HP oil-less, dual piston, AC motor drive
High pressure shut-off	38 bar
Power source	115 V (ac), 60 Hz, 15 A or 230 V (ac) 50/60 Hz, 10 A (depending on model)
Certifications	CSA (714-202-G1 model) CE (714-202-G11 model) A2L certified
Warranty	Three-year

ORDERING INFORMATION

Vortex Dual, 115 V (ac)	714-202-G1
Vortex Dual, 230 V (ac)	714-202-G11
Accessories and R	Replacement Parts
Shoulder strap	722-408-P1
Filter/dryer	722-409-P1
Power cord (115 V)	068-0684
Power cord (230 V)	068-0685



HIGH TEMP VAPOR RECOVERY RATES



CERTIFICATIONS

Vortex Dual is an EPA-certified machine in accordance with Section 608 of the Clean Air Act. It has been independently tested and certified to be in conformance with AHRI standard 740-1998.

REFRIGERANT TESTED	R134a	R22	R410a	
Representative of category	III	IV	V	
High temp vapor rate	N/A	16,8	25,2	
Vapor rate	12,6	21	15	
Liquid rate	137,4	216	286,2	
Push-pull rate	314,4	405	469,2	

Rates are in kg/hr. and are independently tested

QS5

VACUUM PUMP

An affordable pump that lasts.

QS5 is a 142 l/min (5 CFM) pump with premium features without the premium price. Dual voltage operation, brass fittings, and an exhaust demister make QS5 a versatile and durable pump for everyday use. A two-year over-the-counter warranty ensures QS5 will stand up to daily punishment for years.

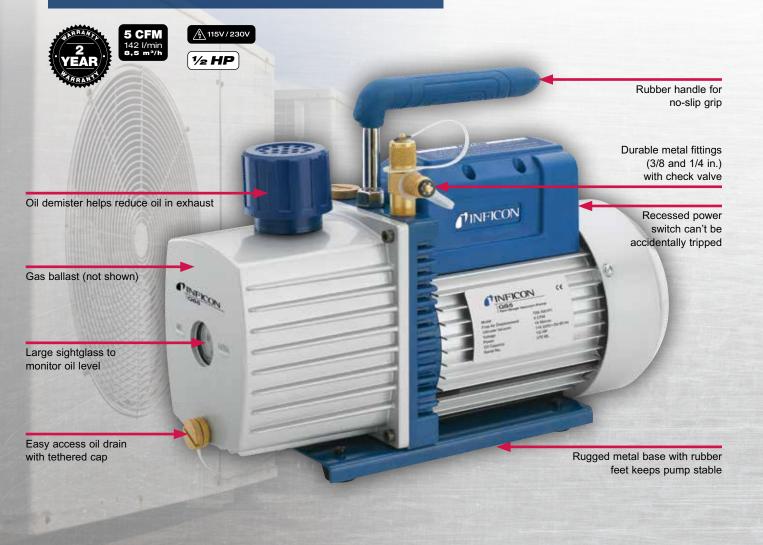
ADVANTAGES

- 142 l/min (5 CFM) displacement for vacuum down to 0,02 mbar
- Inlet check valve prevents oil from flowing back into the system
- Durable metal fittings and base
- Oil demister helps reduce oil in exhaust
- Versatile dual voltage operation

SPECIFICATIONS

Includes	QS5 Detachable power cord Vacuum pump oil			
Free air displacement	142 l/min (5 cfm, 8,52 m ³ /h) 1/2 HP AC			
Motor				
Oil capacity	370 ml			
Weight	10,9 kg			
Power source	115/230 V (ac) dual voltage operation			
Warranty	Two-year			

ORDERING INFO	RMATION
QS5 pump, 115 V (ac)	700-100-P1
QS5 pump, 230 V (ac)	700-100-P10
Accessories and F	Replacement Parts
Power cord (115 V)	068-0684
Power cord (230 V)	068-0685



Pilot[®] Plus

VACUUM GAUGE

Measure vacuum like a pro.

Pilot Plus is an affordable and reliable vacuum gauge that can measure your entire vacuum process, from atmosphere down to 0,01 mbar. A Pirani sensor with a protective filter and other premium features give you great performance. A two-year warranty ensures it will perform for years to come.





SPECIFICATIONS

Includes	Pilot Plus 9 V alkaline battery Replacement filters Storage case
Battery life	45 hours
Power source	9 V alkaline battery
Fitting type	1/4 in. male flare (710-202-G1 model) KF16 flange (710-202-G27 model)
Fitting thread	7/16-20 UNF (710-202-G1 model)
Display units	Microns, Pascal, millibar, Torr
Display range	atm (1.013 mbar) to 0,01 mbar
Auto shut-off	60 min.
Accuracy	0 to 0,267 mbar: 0,013 microns >0,267 mbar: ±10% of reading
Display resolution	1 micron 0,1 Pa 0,01 mbar 0,001 Torr
Maximum overpressure	10.345 mbar
Dimensions	8,2 x 2,0 x 18,0
Weight	240 g
Warranty	Two-year

ORDERING IN	FORMATION
Pilot Plus	710-202-G1
Pilot Plus with KF16	flange 710-202-G27
Accessories a	nd Replacement Parts
Holster case	715-400-P1
Carrying case	710-600-G1
Spare filters	710-701-G1

- Full range measurement from atmosphere to 0,01 mbar
- Unique filter design protects sensor from contamination
- Runs on one 9 V battery
- Pirani sensor for superior accuracy
- Displays units in micron, Pascal, Torr, or millibar
- Rugged carrying case included



Leak Detector Selection Guide

Which leak detector is right for you?

Choosing the right leak detector can be hard. Luckily, INFICON offers a full line of leak detectors to meet all of your needs, whether it's residential, commercial, industrial, or automotive AC or refrigeration. We are proud to stand behind our products by offering an outstanding over-the-counter warranty, so you can purchase with confidence.

If you need more help, please call us at +49 221 56788-660 and we'll help you pick the right instrument for your needs.

	D-TEK Stratus	D-TEK Select	TEK-Mate	D-TEK CO ₂	GAS-Mate	Whisper
Sensor technology	Infrared	Infrared	Heated diode	Infrared	Surface reaction	Ultrasonic
Detects:						
Ammonia	~	✓			1	~
CO ₂	√*			1		\checkmark
HCFCs, HFCs	~	\checkmark	~			\checkmark
A2L semi-flammables (R32, R1234yf)	~	✓	~			~
R290, R600, R441a					\checkmark	
Intrinsically safe					1	
Sensitivity	1 g/yr.†	1 g/yr.†	2 g/yr.†	5 g/yr.	1 ppm	NA
Battery type	Rechargeable	Rechargeable	Alkaline	Rechargeable	Alkaline	Alkaline
Manual zero mode	1	~		1		
Headphone jack	1	~		~		\checkmark
Relative price	\$\$\$\$	\$\$\$	\$	\$\$\$	\$	\$

* Using optional CO₂ sensor

† Tested per EN14624

About INFICON

INFICON provides technology leadership and applications expertise in areas such as gas analysis, leak detection, vacuum measurement and control, and on-site chemical analysis of air, soil and water. Our products are used in a wide variety of applications and markets. INFICON production leak detectors ensure quality in air conditioning, refrigeration, and automotive manufacturing settings worldwide, and technicians rely on INFICON Service Tools to assure these products remain leak tight during years of service.

For more information about INFICON, its products, and worldwide network of sales and service locations, please visit www.inficon.com.

We have a global network of experts to provide fast and local applications and product support.

- Group Administration/Management
 Manufacturing
- Sales Entities and Offices



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