

# INFICON Service Tools

A Catalog For Service Professionals



With helpful Refrigerant  
Leak Detector selection guide

# D-TEK® Select

## Refrigerant Leak Detector

**INNOVATIVE INFRARED  
TECHNOLOGY DELIVERS  
ENHANCED SENSITIVITY  
AND LONG LIFE**



As the first accurate, reliable, highly sensitive, cordless refrigerant leak detector, the original D-TEK revolutionized 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 1,000 hours—almost 10 times longer than the original D-TEK sensor—to lower your cost of ownership and improve job site productivity.

### FEATURES AT A GLANCE

- 0.10 oz/year (3 g/a) sensitivity
- Sensitive to all refrigerants, including R-22, R-134a, R-404a, R-410a, R-507 (AZ-50) and all CFCs, HCFCs and HFCs
- 1,000-hour infrared cell life for low cost of ownership
- Manual zeroing ignores user-programmed refrigerant levels when activated
- 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
- 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 battery is environmentally friendly, won’t corrode, and provides greater charging capacity
- Enhanced filter design for superior filtration and resistance to contaminants
- Ability to run off AC power adapter
- Made in the USA

Additional enhancements include a charging status indicator, sensor failure indication, and rechargeable NiMH (nickel metal hydride) batteries. All in an easy-to-use unit with the quality and durability you’ve come to expect from INFICON.

## HOW IT WORKS

At the heart of the D-TEK Select Refrigerant Leak Detector is an infrared absorption filtermeter. 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.

Like the visible light we see, infrared energy is part of the electromagnetic energy spectrum. Most materials absorb specific and known wavelengths of infrared energy. The particular wavelengths of energy absorbed by a material are known as its absorption spectra. All refrigerants have similar absorption spectra in the range of 7.5–14 micrometers.

The infrared source (emitter) creates a high-intensity stream of energy incorporating all wavelengths in the infrared spectrum. The stream passes through the optical filter, which blocks 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 utilizing an optical filter with precise characteristics, INFICON has made D-TEK Select sensitive to all refrigerants, while eliminating false alarms. In addition, because there is no depletion of chemicals like in heated sensor detectors, the sensor will not be harmed by high refrigerant doses nor degrade over time. The detector recovery time is also immediate after the refrigerant clears the cell.

## SPECIFICATIONS

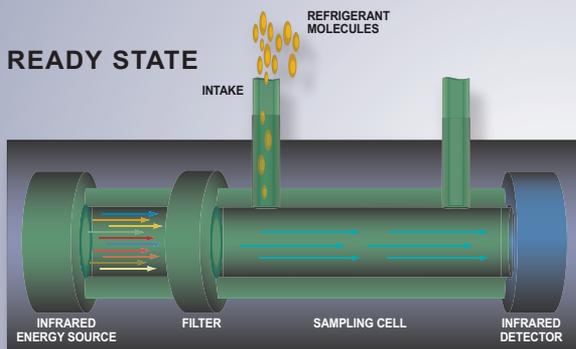
Base unit includes	Infrared cell, NiMH battery, spare filters, 120V adapter with 6' cord, 12V adapter with cigarette lighter plug, and a hard plastic carrying case.
Minimum sensitivity	0.10 oz/yr (3 g/a)
Controls	Power: on/off Sensitivity: high/low Manual zero setting
Power source	NiMH batteries (rechargeable), AC adapter
Battery life	6.5 hours
Charging options	■ 120V adapter with 6' cord ■ 12V adapter w/cigarette lighter plug
Weight with battery	1.19 lb (539 g)
Probe	Rubber-coated flexible metal, approx. 17" (43 cm) long
Certifications	CE Marking Power Safety and EMC. SAEJ1627
Warranty	2-year replacement

## ORDERING INFORMATION

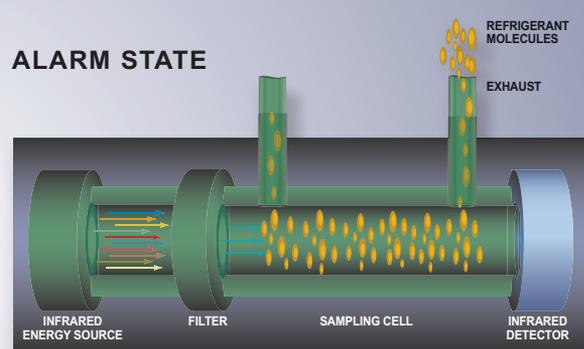
D-TEK Select (120V)	712-202-G1
Headphones	032-0404
TEK-Check R134A reference leak	703-080-G10

## Replacement Parts

120V adapter and cord	033-0019-G1
12V power cord with cigarette lighter plug	703-055-P1
NiMH batteries	712-700-G1
Infrared cell	712-701-G1
Storage case	712-702-G1
Filter cap	712-705-G1
Filter cartridges	712-707-G1



The filtered infrared energy passes through the sampling cell, striking the infrared detector. D-TEK Select is ready to sense any refrigerant.



Filtered infrared energy is absorbed by the refrigerant present in the sampling cell, causing D-TEK Select to alarm.

# Compass<sup>®</sup>

## Refrigerant Leak Detector



### A NEW DIRECTION IN FEATURES, FUNCTION AND VALUE

Integral to Compass is the INFICON patented heated diode sensor technology, delivering outstanding sensitivity to all refrigerants yet resisting jobsite contaminants such as dust, dirt and oil.

For maximum versatility and ease of use, Compass has features such as rechargeable batteries, the ability to operate on AC power, adjustable high/low sensitivity and a series of LED leak indicators. The ergonomic design with rubberized grip fits your hand perfectly for comfortable, secure operation.

#### FEATURES AT A GLANCE

- Detects R22, R410A, R134A, and all other CFCs, HCFCs and HFCs
- Automatic background adjustment (“zeroing”)
- LEDs illuminate progressively to show leak size
- Runs on NiMH batteries or AC adapter
- Power indicator shows when battery is low
- Water-resistant filter protects the sensor from moisture and contaminants
- Intuitive, easy one button operation
- Headphone jack (headphones sold separately)
- Made in the USA

#### SPECIFICATIONS

Base unit includes	Sensor, NiMH batteries, spare filters, 120V adapter with 6' cord, 12V adapter with cigarette lighter plug, and a hard plastic carrying case.
Minimum sensitivity	0.15 oz/year (4 g/a)
Controls	One multi-function button for power and high/low sensitivity selection
Power source	NiMH batteries (rechargeable), AC adapter
Battery life	5.5 hours
Charging options	<ul style="list-style-type: none"> <li>■ 120V adapter with 6' cord</li> <li>■ 12V adapter with cigarette lighter plug</li> </ul>
Weight with batteries	1.15 lb (522 g)
Probe	Rubber coated flexible metal, approx. 17" (43 cm) long
Certifications	CE marking per Safety and EMC.
Warranty	2-year replacement

#### ORDERING INFORMATION

Compass (120V)	717-202-G1
Headphones	032-0404
TEK-Check R134A reference leak	703-080-G10

#### Replacement Parts

120V adapter and cord	033-0019-G1
12V power cord with cigarette lighter plug	703-055-P1
NiMH batteries	712-700-G1
Sensor	703-020-G1
Storage case	717-700-G1
Filters	717-701-G1

# TEK-Mate<sup>®</sup>

## Refrigerant Leak Detector



### FEATURES AT A GLANCE

- Detects R22, R410A, R134A, and all other CFCs, HCFCs and HFCs
- Automatic background adjustment (“zeroing”)
- Rugged flexible metal probe
- Low battery indicator
- High/low sensitivity selector and power in one switch
- Made in the USA

### PROVEN HEATED DIODE TECHNOLOGY IN AN AFFORDABLE PACKAGE

TEK-Mate is the ideal refrigerant leak detector for the light-to-medium duty user who demands reliable leak detection at a budget-friendly price.

Features such as the patented INFICON heated diode sensor, variable intensity audible and visual alarms and automatic compensation for changing background refrigerant concentrations make TEK-Mate the best bargain in refrigerant leak detectors.

See for yourself why TEK-Mate is the #1 selling refrigerant leak detector in the HVAC/R market.

### SPECIFICATIONS

Base unit includes	Sensor, 2 D-size alkaline batteries, spare filters, and a hard plastic carrying case.
Minimum sensitivity	0.25 oz/yr (7 g/a)
Controls	One multi-function button for power and high/low sensitivity selection
Power source	2 D-size (1.5V) alkaline batteries (included)
Battery life	Approximately 16 hours
Weight with batteries	1.54 lb (700 g)
Probe	Chrome-plated flexible metal, approx. 17" (43 cm) long
Certifications	CE marking per Safety and EMC. SAEJ1627.
Warranty	2-year replacement

### ORDERING INFORMATION

TEK-Mate	705-202-G1
TEK-Check R134A reference leak	703-080-G10

### Replacement Parts

Sensor	703-020-G1
Storage case	705-700-G1
Filters	705-600-G1

# We Can Help You Select The Right Refrigerant Leak Detector

There are a lot of refrigerant leak detectors on the market and selecting the one that's best for your needs is a challenge. INFICON offers a full line of refrigerant leak detectors from a single trusted name, so whether your work is residential, commercial, industrial or automotive AC or refrigeration, we have a model that will meet your demands on the jobsite.

All INFICON refrigerant leak detectors are made in the USA and have a 2-year over-the-counter replacement warranty. So no matter which model you choose, you can buy with confidence.



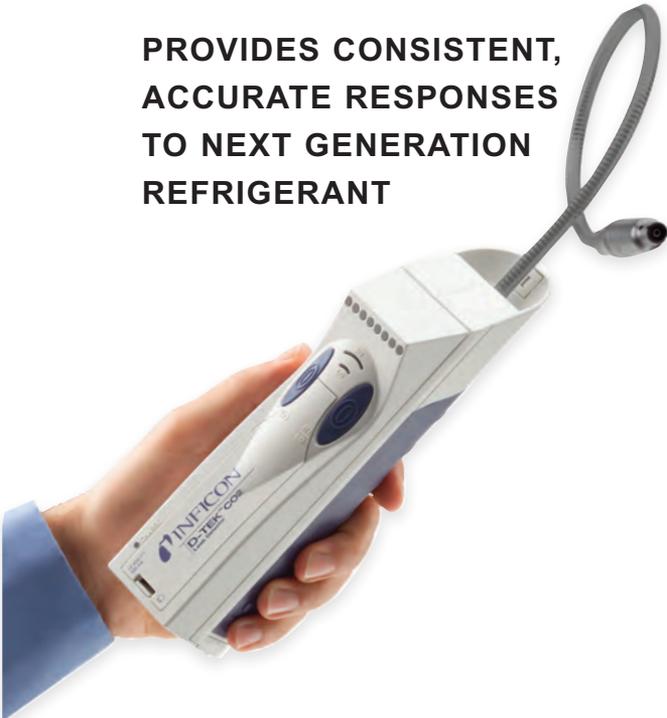
	<b>D-TEK Select</b>	<b>Compass</b>	<b>TEK-Mate</b>
Suggested applications	Industrial A/C & refrigeration (medium-heavy use)	Commercial, residential, & automotive A/C (light-medium use)	Residential A/C & automotive A/C (light-medium use)
Sensor technology	Infrared absorption	Heated diode	Heated diode
Sensitivity	0.10 oz/year	0.15 oz/year	0.25 oz/year
Relative price	\$\$\$	\$\$	\$
Probe type	Rubber-coated flexible metal	Rubber-coated flexible metal	Chrome-plated flexible metal
Grip/handle material	Rubber-coated plastic	Rubber-coated plastic	Plastic
Leak indicators	7 LEDs, variable intensity audible alarm	5 LEDs, variable intensity audible alarm	One LED, variable intensity audible alarm
Power source	Rechargeable NiMH battery	Rechargeable NiMH battery	2 "D" alkaline batteries
Battery life	6.5 hours	5.5 hours	Approximately 16 hours
Ability to run on AC power	Yes	Yes	No
Automatic zeroing	Yes	Yes	Yes
Manual zeroing	Yes	No	No
Sensor failure indicator	Yes	No	No
Headphone jack	Yes	Yes	No

**If you need more help, please call us at 1-800-344-3304 and we'll help you pick the right instrument for your needs.**

# D-TEK® CO2

## Refrigerant Leak Detector

**PROVIDES CONSISTENT,  
ACCURATE RESPONSES  
TO NEXT GENERATION  
REFRIGERANT**



### FEATURES AT A GLANCE

- 6 g/a sensitivity
- Low risk of false alarms because it equalizes to the CO2 present in the air
- 1,000-hour infrared cell life for low cost of ownership
- Consistent and accurate response because the infrared cell does not weaken over time
- Will not react to smoke, humidity, airflow or temperature changes
- Quick response and quick clearing (“zeroing”) from high-efficiency air sampling pump
- On-board diagnostics indicate charging status and warn of low battery or infrared cell failure
- NiMH battery won’t corrode and provides greater charging capacity
- Made in the USA

INFICON is proud to be the only manufacturer offering a hand-held leak detector exclusively for the detection of carbon dioxide (R744), the next generation refrigerant.

D-TEK CO2 uses an innovative infrared absorption sensing cell which is extremely selective to carbon dioxide, yet its circuitry allows the instrument to equalize to the CO2 present in the atmosphere, so there is minimal risk of false alarms. D-TEK CO2 maintains its sensitivity over time for consistent, accurate and reliable performance. Its specialized infrared sensor cell lasts for approximately 1,000 hours, so you buy fewer replacement parts.

Additional features include a charging status indicator, sensor failure indication, sensor test mode and rechargeable NiMH (nickel metal hydride) batteries.

### SPECIFICATIONS

Base unit includes	Infrared cell, NiMH batteries, spare filters, 120V adapter with 6' cord, 12V adapter with cigarette lighter plug, and a hard plastic carrying case.
Minimum sensitivity to CO2 (R744)	6 g/a
Controls	Power: on/off    Sensitivity: high/low
Power source	NiMH batteries (rechargeable), AC adapter
Battery life	6.5 hours
Charging options	<ul style="list-style-type: none"> <li>■ 120V adapter with 6' cord</li> <li>■ 12V adapter w/cigarette lighter plug</li> </ul>
Weight with batteries	1.19 lb (.54 kg)
Probe length	17" (43 cm) long
Certifications	CE Marking Power Safety and EMC
Warranty	2-year replacement

### ORDERING INFORMATION

D-TEK CO2 (120V)	716-202-G1
Headphones	032-0404

### Replacement Parts

120V adapter & cord	033-0019-G1
12V power cord with cigarette lighter plug	703-055-P1
NiMH batteries	712-700-G1
Infrared cell for CO2	716-701-G1
Storage case	716-702-G1
Filter cap	712-705-G1
Filter cartridges	712-707-G1

# Wey-TEK™

## Refrigerant Charging Scale

### OUTSTANDING DURABILITY AND THE BEST ACCURACY AVAILABLE IN A 220 LB. SCALE

The Wey-TEK Refrigerant Charging Scale continues to set new standards in affordability and accuracy with a higher weight capacity—220 lbs, twice that of many other scales—at a competitive price. With Wey-TEK, you can easily weigh and charge from the same large platform.

Wey-TEK is very easy to use. Its high-accuracy load cell gives the correct reading every time (no matter where the cylinder is on the weighing platform), and you can read its large LCD display at a distance, even in direct sunlight.

A high-performance necessity for your service kit, Wey-TEK makes an excellent companion to the D-TEK Select, Compass or TEK-Mate Refrigerant Leak Detectors.



Wey-TEK Refrigerant Charging Scale

### FEATURES AT A GLANCE

#### Wey-TEK

- Durable weighing platform
- Measures in lb/oz, kg/g or decimal lbs
- Simple controls
- Large LCD for easy viewing, even in direct sunlight
- Weighing platform and control handpiece can each be purchased separately
- Auto shut-off after 30 minutes to conserve battery
- Auto shut-off can be disabled in the field
- High-accuracy load cell won't drift
- Automatic and manual zeroing
- Hard plastic carrying case included
- 2-year replacement warranty

#### CHARGING MODULE

- Charge/hold key allows interruption of the charging process
- Displays target charge and total refrigerant transferred
- Provides power to the scale
- Programmable in 1/4 oz increments
- 1/4" refrigerant flare fitting
- 2-year replacement warranty

## SPECIFICATIONS

### Wey-TEK SCALE

Base unit includes	Weighing platform, control handpiece, communication cable, one 9V battery, plastic carrying case.
Weighing capacity	220 lbs (100 kg)
Accuracy	± 0.25 oz (10 g)
Resolution	.25 oz (10 g)
Controls	On/Off, Zero Units selection (English/metric)
Display	LCD visible in direct sunlight; Units: lbs/oz or kg/g or decimal lbs; Low-battery indication; Over-range indication
Scale zeroing	Auto with power-on; Manual
Power source	9V alkaline battery (included)
Battery life	Approximately 60 hours
Weight (in case)	6 lbs (2.72 kg)
Warranty	2-year replacement

### CHARGING MODULE

Base unit includes	Charging module, communication cable, AC adapter, oversized plastic carrying case for all scale and module components.
Max. refrigerant transfer	999 lbs
Connection size	1/4" refrigerant flare
Charge increments	0.25 oz (10 g)
Controls	Charge/hold, clear, increase and decrease charge amount
Display	LCD visible in direct sunlight; programmed charge amount; amount of refrigerant transferred
Power source	120V adapter with 6' cord (included)
Weight (in case)	5 lbs (2.27 kg)
Warranty	2-year replacement

Turn your Wey-TEK into an automatic charging station with the optional charging module. This convenient accessory allows you to accurately and automatically charge HVAC/R systems with any amount of refrigerant you wish.

Simply place your cylinder on the weighing platform, connect your cylinder's hoses to the module's fittings, set your target charge amount and walk away—the charging module will shut off when the programmed charge amount is transferred to the system.

The scale and module can be purchased as a kit, or you may purchase the module separately later to upgrade your Wey-TEK.



**Wey-TEK with optional charging module** includes the weighing platform, control handpiece, charging module, communication cable, 9V battery, AC adapter and hard plastic case for all components.

### ORDERING INFORMATION

Wey-TEK scale	713-202-G1
Charging module	713-702-G1
Wey-TEK scale and charging module	713-203-G1

### Replacement Parts

Weighing platform	713-700-G1
Control handpiece	713-701-G1
Case for Wey-TEK	713-703-G1
Case for Wey-TEK and charging module	713-704-G1

# Vortex<sup>®</sup> AC

Refrigerant Recovery Machine



**3-YEAR OVER-THE-COUNTER WARRANTY**

## INDUSTRY-LEADING THREE-YEAR REPLACEMENT WARRANTY

Vortex AC, the next generation refrigerant recovery machine from INFICON, expands on the proven high performance and durability of the original Vortex. An upgraded compressor with ceramic bearings provides even longer life, increased recovery rates and a guarantee against failed compressors—under any circumstances. Vortex AC contains a single-valve, liquid-tolerant, oil-less compressor driven by a ½ HP AC motor. This compressor/motor combination ensures durability and longevity without compromising recovery rates or torque.

Vortex AC is up for your job, whether it involves large amounts of refrigerant vapor or liquid. It carries an industry-leading, 3-year, over-the-counter replacement warranty for the whole machine—the compressor, valves, fan and all other components.

Vortex AC continues to offer the innovative and revolutionary features of the Vortex. Its individual valve assembly with dual-sealed valve stems eliminates leaks, and a unique brazed aluminum condenser design provides better heat transfer. With its three-valve design, you can purge the machine without changing hoses. Vortex AC is light, compact and well-balanced, providing you with convenience and durability.

### FEATURES AT A GLANCE

- Textured, reflective handle stays cooler in direct sunlight
- Gauges are protected, yet accessible for quick, easy change
- Self-purges without the need to change hoses
- Individual valve assembly eliminates leaks
- Revolutionary condenser design for more efficient heat transfer and lower head pressures
- Large rear-mounted fan provides exceptional cooling
- ½ HP motor drives the single valve, liquid-tolerant, oil-less compressor for high recovery rates
- Optional overflow protection device is easily installed
- Made in the USA

### CERTIFICATIONS

INFICON Vortex AC 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 ARI standard 740-1998 by Underwriters Laboratories, Inc.

REPRESENTATIVE REFRIGERANT	CATEGORY	PUSH-PULL RATE (LB/MIN)	LIQUID RATE (LB/MIN)	VAPOR RATE (LB/MIN)
R134a	III	7.57	2.49	0.22
R22	IV	11.81	2.97	0.29
R410A	V	11.33	3.45	0.29

### SPECIFICATIONS

Base unit includes	Shoulder strap, 6' detachable power cord.
Refrigerants	Recovers commonly used CFCs, HCFCs, and HFCs including blends such as R410A.
Weight	27 lbs (12.2 kg)
Dimensions	18"L x 9.5"W x 14.5"H
High-pressure shut-off	550 psi
Gauge ranges	Low pressure 30" Hg Vac – 500 psig High pressure 0-800 psig
Compressor	½ HP oil-less, single valve, AC motor drive
Power source	120V, 60 Hz, 10 Amps
Warranty	3-year over-the-counter replacement

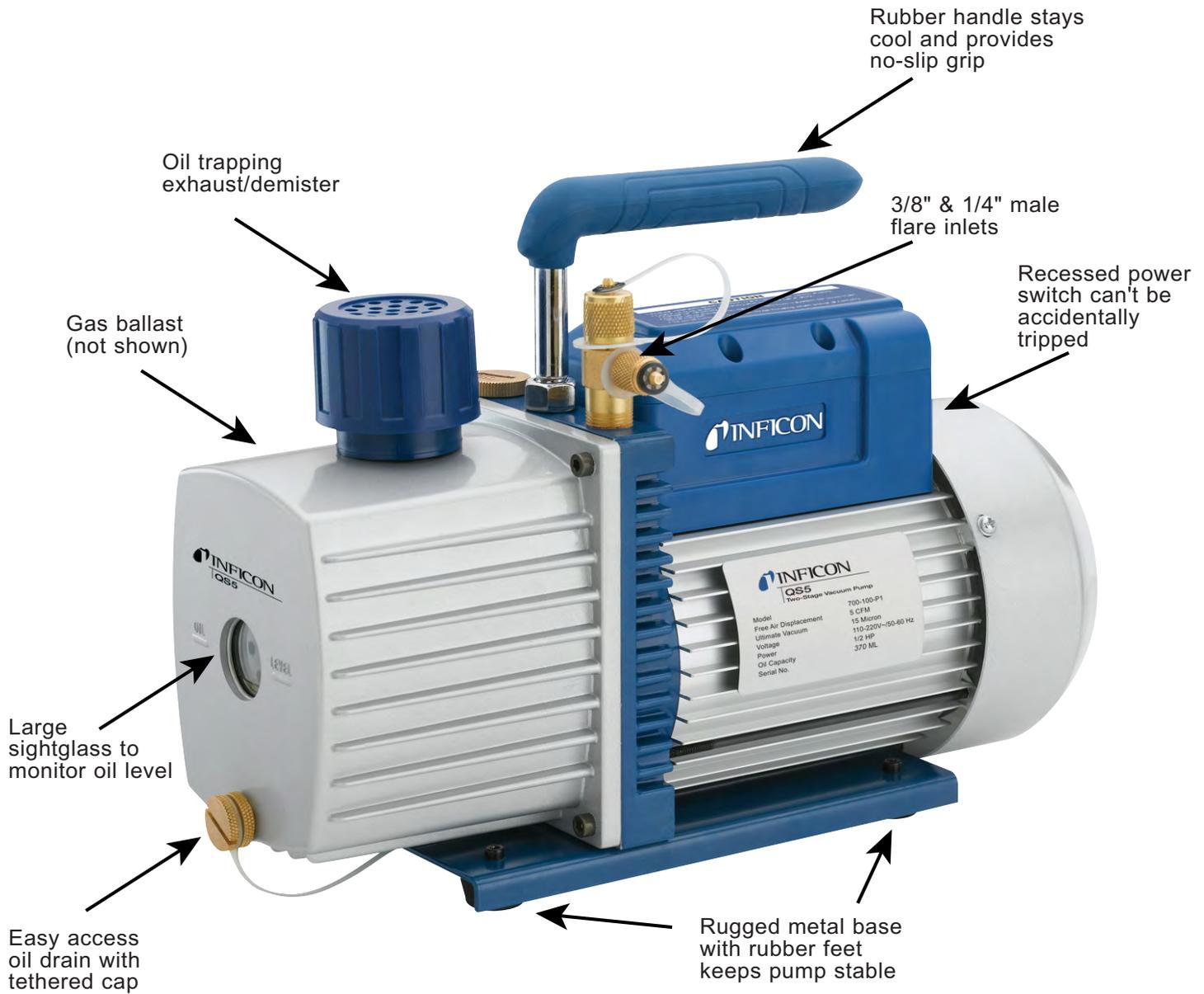
### ORDERING INFORMATION

Vortex AC, 120V	714-202-G1
80% tank overflow protection device	708-203-G1

### Replacement Parts

Power cord	068-0391
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# QS5 Vacuum Pump



## FAST, EFFICIENT AND RELIABLE

The INFICON QS5 Vacuum Pump is designed for quick, deep evacuation as well as affordability and durability.

QS5 is a two-stage, rotary vane pump with 5 CFM rated displacement for ultimate vacuum down to 15 microns. Features such as a large oil sightglass, easily accessible oil drain and innovative oil-trapping exhaust/demister allow technicians to make easier, more efficient service

calls. The pump's design includes a comfortable "no slip" grip for easy carrying and its solid construction delivers maximum durability. All this is backed by an industry-leading, 2-year replacement warranty.

### FEATURES AT A GLANCE

- Two-stage rotary vane pump – provides the ability to quickly pull a deep vacuum
- Anti-backflow on inlet – prevents oil from flowing back to the system if there's a power disruption
- Gas ballast – allows pumped water vapor to be exhausted to atmosphere instead of accumulating in the oil reservoir
- Internal oil pumping design - lubricates the pump chamber and bearings
- Tethered caps on oil drain and inlets – you won't drop or lose them
- Fan – directs airflow for maximum heat transfer, keeping pump cooler
- Aluminum housing – provides maximum durability
- Wide stance and solid base – greater stability and less chance of the pump tipping over
- Thermally protected motor - ensures safe operation.

### SPECIFICATIONS

Base unit includes	110V / 220V dual voltage operation. Power cord, one bottle of oil and manual.
Free Air Displacement	5 cfm (142 liters per min)
Motor	½ HP AC
Oil Capacity	12.5 oz. / 370 mL
Weight	24 lbs. / 10.89 kg
Warranty	2-year replacement

### ORDERING INFORMATION

QS5 Pump	700-100-P1
<b>Replacement Parts</b>	
Oil (6 qts/case)	071-0730
Replacement power cord	068-0391

# Pilot® Plus

## Vacuum Gauge

### ACCURATELY MEASURES THE ENTIRE VACUUM CYCLE



#### FEATURES AT A GLANCE

- Innovative filter protects sensor, eliminates need for cleaning
- Operates for 45 hours on one 9V battery
- Measures from atmosphere to 1 micron
- Only vacuum gauge using a Pirani sensor for better accuracy
- Quick calibration specific to local pressure
- Displays in micron, Pascal, Torr or millibar
- 1/4" refrigerant flare fitting for easy access
- Low battery indicator
- Auto shut-off after 60 minutes to conserve battery
- Plastic storage case included
- Large, easy-to-read LCD display
- 1-year replacement warranty
- Made in the USA

INFICON Pilot Plus Vacuum Gauge incorporates several innovative features for unsurpassed performance. Like the Pilot, it's the only gauge to use a Pirani sensor for greater accuracy and the ability to measure the entire vacuum process, from atmosphere down to one micron. You'll know instantly if your connections are vacuum-tight.

And Pilot Plus is even more unique: An industry-first filter protects the sensor from oil and other contaminants for more accurate readings, and saves you from having to clean the vacuum sensor. Quick calibration allows you to adjust Pilot Plus for slight variations in atmospheric pressure at your specific geographic location to ensure greater accuracy. You also get extended battery life of up to 45 hours from one 9V battery, to keep you productive on the job. That's three times longer than before. To maximize that battery life, Pilot Plus shuts down after 60 minutes and saves the last reading for display again upon the next start up. User-friendly qualities of a large, easy-to-read LCD and included plastic storage case complete the Pilot Plus package.

#### SPECIFICATIONS

Base unit includes	9V battery, filters, storage case
Battery life	45 hours
Power source	9V alkaline battery (included)
Refrigeration fitting	1/4" male flare
Controls	On/off, unit selection, quick calibration
Display units	microns, Pascal, millibars, Torr
Display range	atm (760,000 microns) to 1 micron
Auto shut-off	After 60 min; last reading displayed when restarted
Accuracy	>200-<150,000 microns: 5% of reading, <200 or >150,000 microns >5% of reading
Resolution (increments)	microns: down to 1-micron Pascal: down to 1-Pa mbar: down to 0.01-mbar Torr: down to 0.001
Maximum overpressure	150 psi (7.76 x 106 microns)
Warranty	1-year replacement

#### ORDERING INFORMATION

Pilot Plus	710-202-G1
Vacuum gauge manifold	710-617-G1
Holster case	715-400-P1

#### Replacement Parts

Carrying case	710-600-G1
Spare filters	710-701-G1

# Whisper<sup>®</sup>

## Ultrasonic Leak Detector

### VERSATILITY AND FLEXIBILITY FOR A VARIETY OF APPLICATIONS



#### APPLICATIONS AT A GLANCE

- Refrigerant leaks
- Nitrogen leaks
- Locating worn bearings
- Leaks in pneumatic systems
- Leaks in compressed air systems
- Leaks in vacuum systems
- Diagnosing solenoid operations
- Steam traps
- Leaks in sealed areas (refrigerator cases, vehicles, etc.)
- Electrical arcing

See Whisper transmitter accessory on page 17.

Made in the USA

Do you have a non-traditional leak detection application that a gas detector, soap bubbles or dye injection system can't address? Ultrasonic frequencies are generated when the following common situations occur:

- leaks of any gas under pressure or vacuum
- electrical arcing
- worn bearings
- malfunctions in steam traps.

Whisper is ideal for detecting and locating these sources of ultrasonic sound through the use of a specialized receiver which detects frequencies in the 40.5 kHz range. Through sophisticated circuitry, Whisper locates the ultrasound's source while an Internal Noise Control ensures the instrument is unaffected by audible noise, making it a versatile tool which can even be used in noisy environments such as mechanical rooms. You can also use Whisper with its optional ultrasonic transmitter to leak-check seals in enclosed spaces such as freezer cases or vehicles.

Whisper now features heterodyne capability, which reduces the ultrasonic frequencies detected to a range that can be heard by the human ear. Variations can therefore be identified to easily pin-point the ultrasonic source. Heterodyne output is enabled when headphones (included) are plugged in to the detector. Sensitivity is adjusted through an innovative touch pad while multiple LEDs and an audible alarm register the leak.

#### SPECIFICATIONS

Base unit includes	(2) "D" alkaline batteries, rubber probe extension, headphones and storage case
Controls	Power button, sensitivity touch pad
Power source	(2) "D" alkaline batteries (included)
Battery life	165 hours
Weight with batteries	1.5 lbs (680 g)
Warranty	2-year replacement

#### ORDERING INFORMATION

Whisper	711-202-G1
Ultrasonic Transmitter	711-600-G1

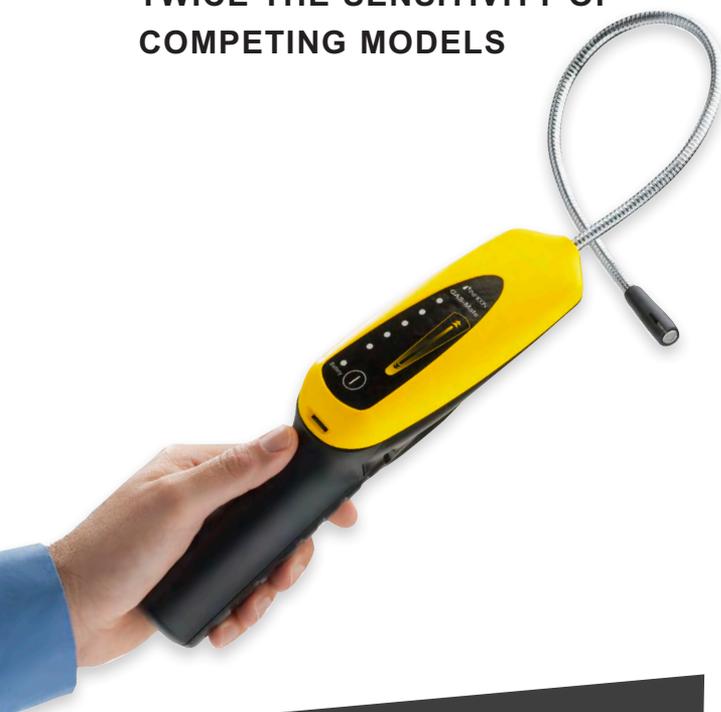
#### Replacement Parts

Headphones	032-0404
Storage case	711-701-G1

# GAS-Mate®

## Combustible Gas Leak Detector

### TWICE THE SENSITIVITY OF COMPETING MODELS



#### FEATURES AT A GLANCE

- Sensitive to 5 ppm methane (twice as sensitive as nearest competitor)
- Also detects natural gas, propane, butane, cyclopentane, ethane, ethanol, isobutane and ammonia
- Multiple LEDs, variable intensity audio alarm indicate leak strength
- Adjustable sensitivity helps pinpoint leaks fast
- Auto zeroing for ignoring background gas levels in leak test area
- Small sensor and probe tip permit leak checking in tighter places
- Certified intrinsically safe by MET Laboratories for use in combustible/explosive environments
- 3-year replacement warranty
- Made in the USA

INFICON raises the bar on combustible gas detectors with the next-generation GAS-Mate, the ideal tool for locating leaks in combustion appliances, such as natural gas or propane-fired heating systems, or gas valves, regulators and pipelines.

GAS-Mate outperforms other models with twice the sensitivity of the closest competitor - down to 5 ppm methane, the main component of natural gas. GAS-Mate also detects many other combustible gases, such as ammonia, propane, ethanol and hydrogen sulfide.

No calibration is required for GAS-Mate or its field-replaceable sensor. Simply turn the unit on, allow it to warm up for a few seconds and it is ready to quickly pinpoint any gas leaks present.

To prove that GAS-Mate has the performance and durability for your job, it carries an industry-leading, 3-year over-the-counter replacement warranty – three times what most other manufacturers offer.

#### SPECIFICATIONS

Base unit includes	Sensor, two D-size alkaline batteries, and a hard plastic carrying case
Sensitivity	5 ppm methane
Controls	Power button, sensitivity touch pad
Power source	2 D-size (1.5V) alkaline batteries, included (use Duracell® MN1300 to maintain intrinsically safe approval)
Battery life	40 hours
Probe	Chrome-plated flexible metal, approx. 17" (43 cm) long
Alarm indicators	Multiple LEDs, variable intensity audio alarm
Weight with batteries	1.54 lbs (700 g)
Certifications	Intrinsic Safety Testing Pending, CE
Warranty	3-year replacement

#### ORDERING INFORMATION

GAS-Mate	718-202-G1
<b>Replacement Parts</b>	
Sensor	706-700-G1
Storage case	718-701-G1

# CO Check<sup>®</sup>

## Carbon Monoxide Meter

### SUPERIOR ACCURACY FOR PEACE OF MIND



#### FEATURES AT A GLANCE

- Best-in-class accuracy for peace of mind
- Easy-to-use pushbuttons let you perform all functions with one hand
- Highly visible, intuitive “stoplight” LEDs give quick indication of CO hazard
- Large, easy-to-read LCD display for precise measurements
- Audible alarm
- Competitively priced
- Protective case with belt clip included
- Made in the USA



CO Check comes with protective holster case (see description on page 19)

CO Check is the convenient, dependable way to detect and measure dangerous carbon monoxide (CO)<sup>1</sup> in both residential and commercial/industrial applications.

The instrument combines superior accuracy and reliability with simple, one-hand operation. Intuitive “stoplight” LEDs and an audible alarm alert you to the danger level of CO present, while the large, easy-to-read LCD provides a precise readout of the exact CO level. A protective holster case with belt clip adds to your convenience.

CO Check is a natural companion for our GAS-Mate Combustible Gas Leak Detector, since both enhance heating system safety. For accurate, reliable CO detection in a convenient, affordable package that has all the features you need, CO Check is the tool for you.

#### SPECIFICATIONS

Base unit includes	9V battery, holster case
Range	1-999 ppm
Resolution	1 ppm increments
Accuracy	3% of reading, ± 1ppm
Battery life	200+ hours; low battery indicator
Auto shut-off	After 20 minutes, maintaining last reading when powered on again
Alarm indicators	Variable speed ticking, colored LEDs corresponding to increasing CO levels, LCD showing CO level in ppm
Controls	On/Off, MAX
Power source	9V alkaline battery (included)
Weight (with battery)	6.7 oz (190 g)
Warranty	2-year replacement

#### ORDERING INFORMATION

CO Check	715-202-G1
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#### Replacement Parts

Holster Case	715-400-P1
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#### <sup>1</sup> 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

# Manifold Gauge Sets

## Precise, Dependable Measurement



### UNPARALLELED PRECISION AND DEPENDABILITY

The patented gauge movement in our manifold gauges delivers pulse/vibration free measuring and gauges that can withstand 2 1/2 times over pressure without damaging the gauges. The large, easy-to-read gauge face is available in several configurations for your most demanding HVAC/R and automotive applications.

The manifold gauge sets come with a 2-year warranty, that's twice the warranty of any other manufacturer.

### MANIFOLD GAUGE SETS

Temperature Scale Ranges	Aluminum Manifold Gauge Sets 2-way w/Gauge Protectors	Aluminum Manifold Gauge Sets 4-way w/Gauge Protectors
R12, R134a Automotive	710-612-G11A	710-614-G11A
R22, R134a, R404A	710-612-G21	710-614-G21
R410A	710-612-G31	710-614-G31
R12, R22, R502	710-612-G41	710-614-G41
R22, R410A	710-612-G61	710-614-G61

### FEATURES AT A GLANCE

#### GAUGE

- Pulse/vibration free measuring
- 1% accuracy
- Withstands 2 1/2 times over pressure
- Large, 3", easy-to-read gauge face
- High and low set gauges
- Hanging hook

#### MANIFOLD

- Insertion valve for easier metering
- Large sightglass for visual contact of refrigerant flow
- Rebuildable valves, replacement seals available
- Durable metal knobs
- 1/4" SAE connections

## GET INCREASED PERFORMANCE FROM YOUR INFICON PRODUCTS THROUGH THE USE OF THESE SPECIALLY DESIGNED ACCESSORIES.

### **TEK-Check™ R134A REFERENCE LEAK – 703-080-G1**

Use this reference leak to verify the functionality of your D-TEK Select, Compass or TEK-Mate Refrigerant Leak Detector. Leak rate of 0.4 oz/yr of R-134a with a lifetime of approximately one year. Small, compact canister easily fits in your leak detector's carrying case.



### **Vortex AC OVERFILL PROTECTION DEVICE – 708-203-G1**

For use with the Vortex AC Refrigerant Recovery Machine. This kit provides an easily installed panel that fits in the front of the Vortex and connects to a cable (provided) that plugs into the refrigerant cylinder. This allows for easy, safe recovery of the refrigerant and automatic shut-off of Vortex AC when the refrigerant cylinder is 80% full. The cable uses a three pin Brad Harrison connector; refrigerant cylinders must be equipped with a refrigerant level tank float sensor. (Contact the cylinder manufacturer for more information.)



### **Pilot Plus VACUUM GAUGE MANIFOLD – 710-617-G1**

This one-valve manifold assembly comes with a 1/4" female flare swivel fitting on top to attach Pilot Plus (or other vacuum gauge) and connect your vacuum pump to the system under evacuation. The center valve isolates all ports and seals vacuum tight. Comes with a large hook so that you can easily hang the manifold in the right spot during use.



### **PROTECTIVE HOLSTER CASE – 715-400-P1**

Use this custom-molded holster case with the Pilot Plus Vacuum Gauge, Wey-TEK Scale handpiece, or CO Check Carbon Monoxide Meter to provide extra convenience and protection for your tools. The holsters belt clip allows you to keep your instrument handy, and buttons are accessible. The case's flexible material allows you to easily remove the instrument from the case, if you wish.



### **Whisper ULTRASONIC TRANSMITTER – 711-600-G1**

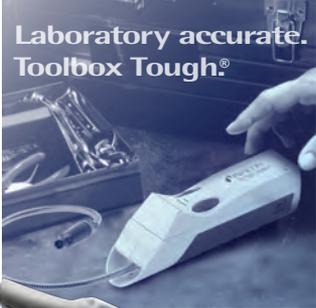
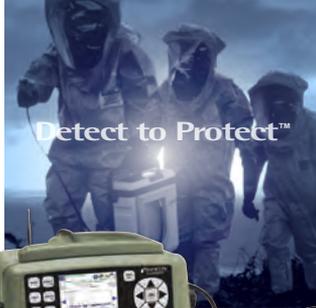
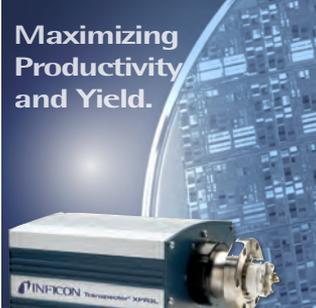
This ultrasonic transmitter for use with the Whisper Ultrasonic Leak Detector provides quick, accurate leak checking in walk-in coolers/freezers, wall and ceiling joints, around doors and windows, ducts, etc. Turn the transmitter on and place it in the enclosed system you need to leak check. If the Whisper detects the ultrasonic frequency generated by the transmitter, you will know the presence and location of the leak. Dimensions (L x W x H): 2 1/4" x 3 3/4" x 1"



# About INFICON

INFICON provides essential gas leak detection products for air conditioning/refrigeration manufacturing and repair, as well as toxic chemical analysis instrumentation for emergency response, security and environmental applications. INFICON products and expertise also provide process-intelligent information for timely decisions in the complex fabrication of semiconductors and thin film coatings for flat-panel displays, solar cells, magnetic and optical storage media, scientific and consumer optics, and architectural glass coatings.

INFICON has world-class manufacturing facilities in the United States and Europe and subsidiaries in China, France, Germany, Japan, Korea, Liechtenstein, Singapore, Switzerland, Taiwan, the United Kingdom and the United States. INFICON is an ISO 9001 registered company. For more information about INFICON and its products, please visit [www.inficon.com](http://www.inficon.com).

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 <p>Laboratory accurate. Toolbox Tough®</p>	 <p>Detect to Protect™</p>	 <p>Assuring quality with leak detection.</p>	 <p>Maximizing Productivity and Yield.</p>
			

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