

# INFICON Service Tools

A Catalog For Service Professionals



WITH HELPFUL REFRIGERANT  
LEAK DETECTOR SELECTION GUIDE

# D-TEK<sup>®</sup> 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.

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.

### 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), HFO1234yf, and all CFCs, HCFCs and HFCs
- 1,000-hour infrared cell life for low cost of ownership
- Optional manual zeroing mode 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
- Easily serviced Infrared cell and NiMH battery ensures you are never down on the jobsite
- Enhanced filter design for superior filtration and resistance to contaminants
- Ability to run off AC power adapter
- Made in the USA

### HOW IT WORKS

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.

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, 115 V (ac) wall charger, 12 V (dc) car charger, 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	<ul style="list-style-type: none"> <li>▪ 115 V (ac) wall charger</li> <li>▪ 12 V (dc) car charger</li> </ul>
Weight with battery	1.19 lb. (539 g)
Probe	Rubber-coated flexible metal, approx. 15 in. (38 cm) long
Certifications	CE Marking Power Safety and EMC. SAEJ1627, EN 14624:2012
Warranty	Two-year replacement

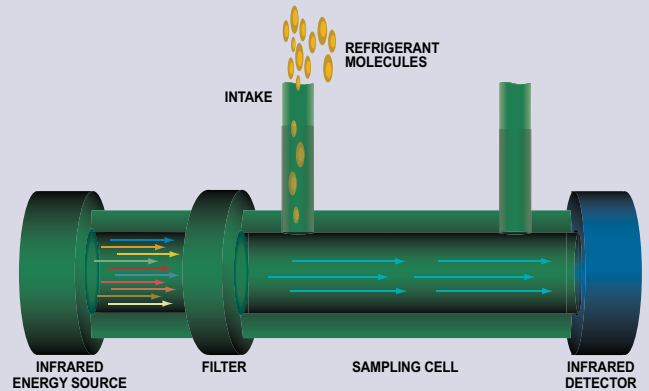
**ORDERING INFORMATION**

D-TEK Select (115 V)	712-202-G1
Headphones	032-0430
TEK-Check R134A reference leak	703-080-G10

**REPLACEMENT PARTS**

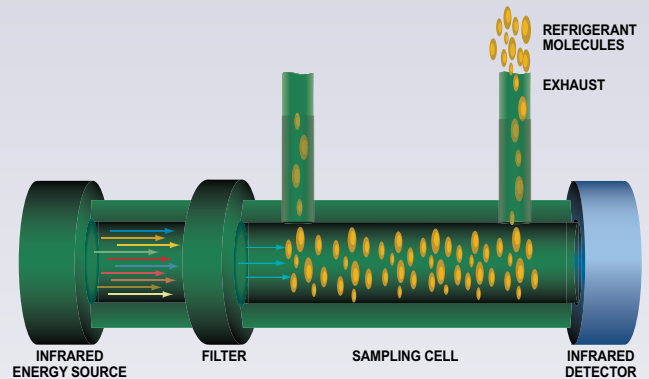
115 V (ac) wall charger	033-0019-G1
12 V (dc) car charger	703-055-P1
NiMH batteries	712-700-G1
Infrared cell	712-701-G1
Storage case	712-702-G1
Filter cap	712-705-G1
Filter cartridges	712-707-G1

**READY STATE**



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

**ALARM STATE**



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

HELPFUL REFRIGERANT LEAK DETECTOR SELECTION GUIDE ON PAGE 19

# 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.

#### SPECIFICATIONS

Base unit includes	Sensor, NiMH batteries, spare filters, 115 V (ac) wall charger, 12 V (dc) car charger, and a hard plastic carrying case.
Minimum sensitivity	0.15 oz. / yr. (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>▪ 115 V (ac) wall charger</li> <li>▪ 12 V (dc) car charger</li> </ul>
Weight with batteries	1.15 lb. (522 g)
Probe	Rubber coated flexible metal, approx. 15 in. (38 cm) long
Certifications	CE marking per Safety and EMC.
Warranty	Two-year replacement

#### ORDERING INFORMATION

Compass (115 V)	717-202-G1
Headphones	032-0430
TEK-Check R134A reference leak	703-080-G10
<b>REPLACEMENT PARTS</b>	
120 V (ac) wall charger	033-0019-G1
12 V (dc) car charger	703-055-P1
NiMH batteries	712-700-G1
Sensor	703-020-G1
Storage case	717-700-G1
Filters	717-701-G1

#### FEATURES AT A GLANCE

- Detects R22, R410A, R134A, HFO1234yf, 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

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# TEK-Mate®

## Refrigerant Leak Detector



### FEATURES AT A GLANCE

- Detects R22, R410A, R134A, HFO1234yf, and all other CFCs, HCFCs and HFCs
- Automatic background adjustment (“zeroing”)
- Rugged flexible rubber coated 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, two 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	Two D-size (1.5V) alkaline batteries (included)
Battery life	Approximately 16 hours
Weight with batteries	1.54 lb. (700 g)
Probe	Rubber coated flexible metal, approx. 15 in. (38 cm) long
Certifications	CE marking per Safety and EMC. SAEJ1627, EN 14624:2012.
Warranty	Two-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

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# Whisper<sup>®</sup>

## Ultrasonic Leak Detector

NOW WITH  
LASER  
POINTER!



### VERSATILITY AND FLEXIBILITY FOR A VARIETY OF APPLICATIONS

Do you have a non-traditional leak detection application that a gas detector, soap bubbles or dye injection system can't address? Whisper is ideal for detecting and locating ultrasonic frequencies generated when the following common situations occur:

- leaks of any gas under pressure or vacuum
- electrical arcing
- worn bearings and machinery
- malfunctions in steam traps
- leaking seals

The leak detector includes a specialized built-in receiver that 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. This makes Whisper a versatile tool which can even be used in noisy environments, such as mechanical rooms.

Whisper incorporates 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. Multiple LEDs and an audible alarm register the leak when heterodyne mode is not enabled.

For the ultimate in performance and versatility, consider the Whisper with accessory kit. Along with the leak detector, this kit gives you more accessories for more productivity. Use the contact probe to check machinery's function. Simply twist the metal probe onto the instrument and touch it to bearing housings, solenoids, pistons and other mechanical equipment to allow frequencies to travel into Whisper's ultrasonic transducer. Properly functioning machinery sounds smooth and clear, a sharp contrast to malfunctioning machinery.

### 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

MADE IN THE USA

Use Whisper Transmitter to test seals around any enclosed space, including doors, windows, ducts and refrigerator cases. Simply turn Whisper Transmitter on to generate its ultrasonic tone and place it in the area you wish to leak test. Trace around potential problem areas with Whisper to alert you to the transmitter’s ultrasonic frequencies “leaking” through poorly-sealed areas.

Whisper Transmitter, contact probe, and premium headphones are included in the accessory kit, or can be purchased separately for use with the standard package.

**SPECIFICATIONS**

Base unit includes	Headphones, rubber extension probe, two “D” alkaline batteries, hard plastic carrying case
Unit with accessory kit includes	Premium headphones, metal contact probe, rubber extension probe, Whisper Transmitter with 9V battery, two “D” alkaline batteries, hard plastic carrying case
Controls	Power button, sensitivity touch pad
Power source	Two “D” alkaline batteries (included)
Battery life	165 hours (laser pointer off) 115 hours (laser pointer on)
Weight with batteries	1.06 lb. (482 g)
Warranty	Two-year replacement

**ORDERING INFORMATION**

Whisper base unit	711-202-G1
Whisper with accessory kit	711-203-G1

**REPLACEMENT PARTS**

Headphones	032-0430
Premium Headphones	032-0427
Whisper Transmitter	711-600-G1
Contact Probe	711-316-G1



Whisper shown with contact probe (included with accessory kit).



Whisper Transmitter included with accessory kit (description on page 18).

# D-TEK<sup>®</sup> CO<sub>2</sub> Refrigerant Leak Detector



## FEATURES AT A GLANCE

- 5 g/a sensitivity
- 1,000-hour infrared cell life for low cost of ownership
- Consistent and accurate response because the infrared cell does not weaken over time
- Optional manual zeroing mode ignores user programmed refrigerant levels when activated
- 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

## CONSISTENT, ACCURATE RESPONSES TO NEXT GENERATION REFRIGERANT

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 CO<sub>2</sub> uses an innovative infrared absorption sensing cell which is extremely selective to carbon dioxide, yet its circuitry allows the instrument to equalize to the CO<sub>2</sub> present in the atmosphere, so there is minimal risk of false alarms. D-TEK CO<sub>2</sub> 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 and rechargeable NiMH (nickel metal hydride) batteries.

### SPECIFICATIONS

Base unit includes	Infrared cell, NiMH batteries, spare filters, 115 V (ac) wall charger, 12 V (dc) car charger, and a hard plastic carrying case.
Minimum sensitivity to CO <sub>2</sub> (R744)	5 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>■ 115 V (ac) wall charger</li> <li>■ 12 V (dc) car charger</li> </ul>
Weight with batteries	1.19 lb. (0.54 kg)
Probe length	15 in. (38 cm) long
Certifications	CE Marking Power Safety and EMC
Warranty	Two-year replacement

### ORDERING INFORMATION

D-TEK CO <sub>2</sub> (115 V)	716-202-G1
Headphones	032-0430

### REPLACEMENT PARTS

115 V (ac) wall charger	033-0019-G1
12 V (dc) car charger	703-055-P1
NiMH batteries	712-700-G1
Infrared cell for CO <sub>2</sub>	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 lb., 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.



#### SPECIFICATIONS

Base unit includes	Weighing platform, control handpiece, communication cable, one 9V battery, plastic carrying case.
Weighing capacity	220 lb. (100 kg)
Accuracy	±0.25 oz. (10 g)
Resolution	0.25 oz. (10 g)
Controls	On/Off, Zero Units selection (English/metric)
Display	LCD visible in direct sunlight; Units: lb./oz. or kg/g or decimal lb.; 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)	9 lb. (4.08 kg)
Warranty	Two-year replacement

#### ORDERING INFORMATION

Wey-TEK scale	713-202-G1
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#### REPLACEMENT PARTS

Weighing platform	713-700-G1
Control handpiece	713-701-G1
Case for Wey-TEK	713-703-G1

#### FEATURES AT A GLANCE

- Durable weighing platform
- Measures in lb./oz., kg/g or decimal lb.
- 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
- Two-year replacement warranty

# Wey-TEK HD Wireless™

## Refrigerant Charging Scale

### MOST ADVANCED TECHNOLOGY IN REFRIGERANT SCALES

Building on the proven performance of Wey-TEK, the Wey-TEK HD Wireless Refrigerant Charging Scale sets a new standard for versatility, durability and accuracy in a 250 lb. capacity scale.

For maximum flexibility on the jobsite, Wey-TEK HD Wireless is available in two different models: an industry first wireless platform that communicates with and displays through your smartphone or tablet using a free downloadable app (on the App Store<sup>SM</sup> or on Google Play<sup>TM</sup>)\* and a wireless platform with optional handpiece.

Both models incorporate an innovative alarm mode which beeps when a programmed target refrigerant charge amount is reached. The optional handpiece features a large, full color display that is easy to read, even in direct sunlight. Though the weighing platform communicates with one smartphone or wireless handpiece at a time, it is easily paired with these devices so multiple users can have the app or a handpiece and interchange with the base, as needed.

The Base model includes a "job log" feature to track refrigerant transferred over multiple jobs and this data can be sent using the smartphone's e-mail.

### SPECIFICATIONS

#### WEY-TEK HD WIRELESS BASE MODEL

Base unit includes	Weighing platform, four "AA" batteries, plastic carrying case
Weighing capacity	250 lb. (115 kg)
Accuracy	±0.06% of reading, ±0.25 oz. (10 g)
Resolution	0.25 oz. (10 g)
Controls	Menus and buttons in app interface / touch screen
Display	User-provided smartphone*
Power source	Four "AA" batteries (included) in platform
Battery life	Approximately 80 hours
Wireless range	30 ft. (10 m) *
Weight in case	8 lb. (3.62 kg)
Warranty	Two-year replacement

\*Results may vary depending on phone model and operating system



\* Compatible with iPhone® 4s and above.  
Compatible with Android™ 2.2 and above.

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**SPECIFICATIONS**

**WEY-TEK HD WIRELESS BASE WITH OPTIONAL HANDPIECE**

Base unit includes	Weighing platform, control handpiece, eight "AA" batteries, plastic carrying case
Weighing capacity	250 lb. (115 kg)
Accuracy	±0.06% of reading, ±0.25 oz. (10 g)
Resolution	0.25 oz. (10 g)
Controls	Changeable soft keys; on/off, units selection, tare
Display	Full-color graphical display
Power source	Eight "AA" batteries (included), four in handpiece, four in platform
Battery life	Approximately 80 hours (platform) and 100 hours (handpiece)
Wireless range	30 ft. (10 m)
Weight in case	9 lb. (4.08 kg)
Warranty	Two-year replacement

**ORDERING INFORMATION**

Wey-TEK HD Wireless Base Model	719-202-G1
Wey-TEK HD Wireless Base with Optional Handpiece	719-203-G1
Handpiece only	719-715-G1

**FEATURES AT A GLANCE**

**Wey-TEK HD Wireless Base model (operated via app)**

- Communicates and displays through downloadable free app on your smartphone or tablet
- Bluetooth transmission
- Range of 30 ft. (10 m)
- Measures in pounds / ounces, kilograms / grams, decimal pounds, and ounces-only
- Large durable weighing platform
- Industry-first alarm mode indicated when a programmed target refrigerant charge has been reached
- Job log function tracks refrigerant transferred; file can be e-mailed from your smartphone for analysis or record keeping
- Heavy-duty, anti-skid rubber mat on weighing platform
- High accuracy load cell won't drift
- Hard plastic carrying case included
- Two-year replacement warranty

**FEATURES AT A GLANCE**

**Wey-TEK HD Wireless Base with Optional Handpiece**

Includes all the above features plus:

- Can be used in lieu of smartphone via Bluetooth transmission
- Large vivid color display is easy to read, even in direct sunlight
- Auto-shutoff and screen dimming in user-selectable intervals to preserve battery life
- Magnet on handpiece for placing on a tank or other nearby objects for easily accessible display



Wey-TEK HD Wireless with optional handpiece features a large, full color display that is easy to read, even in direct sunlight.

# Vortex<sup>®</sup> 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 over-the-counter warranty. Vortex Dual is Laboratory Accurate. Toolbox Tough.<sup>®</sup>

THREE-YEAR  
WARRANTY

### FEATURES AT A GLANCE

- 1 HP dual piston compressor provides industry-leading recovery rates
- Micro-channel condenser provides exceptional heat exchange allowing Vortex Dual to maintain recovery rates throughout the entire recovery cycle
- Oversize fan provides exceptional cooling
- Simple two valve operation
- Full size protected gauges for both suction and tank pressure
- Self-purge without the need to change hoses
- Filter / dryer included
- Noise absorbing blow molded case
- Three-year over-the-counter replacement warranty



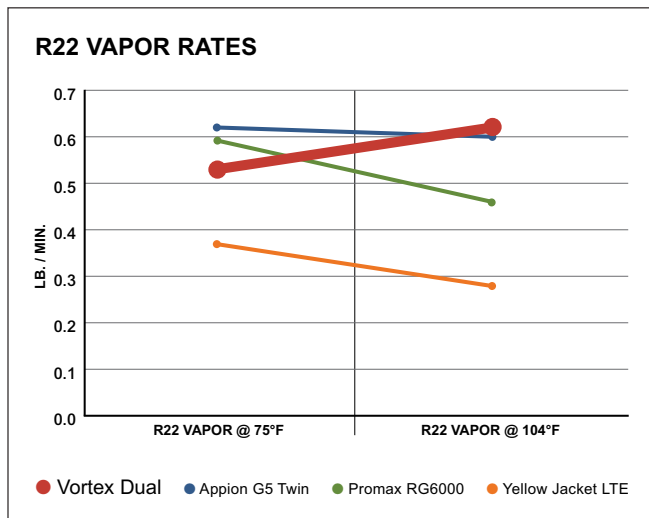
- 1 Shoulder strap (included) connecting point
- 2 Easy to read gauges
- 3 Durable metal knobs
- 4 Inlet with lots of clearance
- 5 Filter/dryer included
- 6 Micro-channel condenser
- 7 Oversize fan

**VORTEX DUAL EXCELS UNDER REAL-WORLD CONDITIONS**

INDEPENDENTLY TESTED RATES Rates in lb./min. (kg/min.)

	Liquid (R410a)	Vapor 75°F (R410a)	Vapor 104°F (R410a)	Vapor 104°F (R22)
<b>Vortex Dual</b>	<b>10.60 (4.81)</b>	<b>0.55 (0.25)</b>	<b>0.93 (0.42)</b>	<b>0.62 (0.28)</b>
Appion G5 Twin	17.20 (7.8) *	0.55 (0.25) *	N/A	0.42 (0.27) *
Promax RG6000	7.67 (3.48)	0.37 (0.17)	N/A	0.22 (0.21)
CPS TR600	8.07 (3.66) *	0.7 (0.32) *	0.82 (0.37) *	0.39 (0.18) *
Yellow Jacket LTE	9.26 (4.2)	0.35 (0.16)	N/A	0.28 (0.13)

\* Test performed using large diameter hoses and filter/dryer removed



**SPECIFICATIONS**

Unit includes	Shoulder strap, filter/dryer, 6 ft. (1.8 m) detachable power cord
Compatible refrigerants	Recovers commonly used CFCs, HCFCs, and HFCs including blends such as R410A, 12, 22, 134a, 404, 407C, 500, 502, and other Class III, IV and V refrigerants
Weight	29.75 lb. (13.5 kg)
Dimensions (L x W x H)	16.7 x 9.2 x 14.2 in. (42.4 x 23.4 x 36.1 cm)
Compressor	1 HP oil-less, dual piston, AC motor drive
High-pressure shut-off	550 psi
Power source	115 V (ac), 60 Hz, 15A or 230 V (ac), 50/60 Hz, 10A (depending on model)
Warranty	Three-year over-the-counter replacement

**CERTIFICATIONS**

INFICON 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	0.62 (0.28)	0.93 (0.42)
Vapor rate	0.47 (0.21)	0.55 (0.25)	0.55 (0.25)
Liquid rate	5.1 (2.29)	8.0 (3.60)	10.60 (4.77)
Push-pull rate	11.64 (5.24)	15.01 (6.75)	17.39 (7.82)

Rates are in lb./min. (kg/min.) and are independently tested

**ORDERING INFORMATION**

Vortex Dual 115V	714-202-G1
Vortex Dual 230V with CE	714-202-G11
<b>Replacement Parts</b>	
Power cord (115 V)	068-0684
Power cord (230 V)	068-0685



# 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, two-year replacement warranty.

#### SPECIFICATIONS

Base unit includes	Power cord, one bottle of oil
Free air displacement	5 cfm (142 l/m)
Motor	½ HP AC
Oil capacity	12.5 oz. (370 ml)
Weight	24 lb. (10.89 kg)
Power source	115/230 V dual voltage operation
Warranty	Two-year replacement

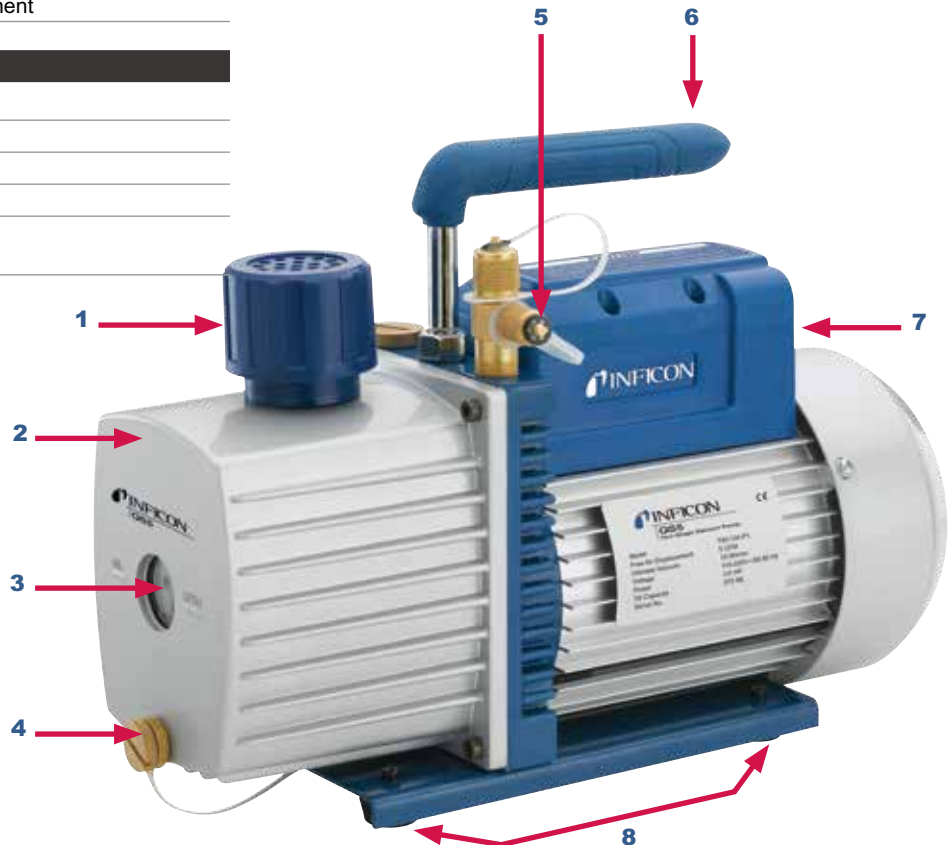
#### ORDERING INFORMATION

QS5 pump (115 V)	700-100-P1
QS5 pump (230 V)	700-100-P10

#### REPLACEMENT PARTS

Oil (6 qt. / case)	071-0730
Replacement power cord	068-0391

- 1 Oil trapping exhaust/demister
- 2 Gas ballast (not shown)
- 3 Large sightglass to monitor oil level
- 4 Easy access oil drain with tethered cap
- 5 Rubber handle stays cool and provides no-slip grip
- 6 3/8 in. and 1/4 in. male flare inlets
- 7 Recessed power switch can't be accidentally tripped
- 8 Rugged metal base with rubber feet keeps pump stable



### FEATURES AT A GLANCE

- 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
- Tethered caps on oil drain and inlets so you won't drop or lose them
- Fan directs airflow for maximum heat transfer, keeping pump cooler
- Wide stance and solid base provides greater stability and less chance of the pump tipping over
- Thermally protected motor ensures safe operation
- Dual voltage operation via external switch
- Removable power cord
- Two-year replacement warranty

# Pilot® Plus Vacuum Gauge

## ACCURATELY MEASURES THE ENTIRE VACUUM CYCLE

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.

## 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
- Low battery indicator
- Auto shut-off after 60 minutes to conserve battery
- Plastic storage case included
- Large, easy-to-read LCD display
- One-year replacement warranty
- Made in the USA



## SPECIFICATIONS

Base unit includes	9V battery, filters, storage case
Battery life	45 hours
Power source	9V alkaline battery (included)
Refrigeration fitting	¼ in. 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	0 to 200 micron: 10 micron >200 micron: ±10% 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	One-year replacement

## ORDERING INFORMATION

Pilot Plus	710-202-G1
Holster case	715-400-P1
<b>REPLACEMENT PARTS</b>	
Carrying case	710-600-G1
Spare filters	710-701-G1

# GAS-Mate®

## Combustible Gas Leak Detector



### FEATURES AT A GLANCE

- Sensitive to 5 ppm methane
- Great for flammable refrigerants like R290, R600a, and R441a!
- Also detects natural gas, hydrogen, propane, butane, cyclopentane, ethane, ethanol, isobutane, ammonia and forming gas (95% nitrogen, 5% hydrogen)
- 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 combustive/explosive environments
- Three-year replacement warranty
- Made in the USA

### SAFELY DETECT FLAMMABLE REFRIGERANT AND COMBUSTIBLE GAS LEAKS

INFICON raises the bar on combustible gas detectors with the next-generation GAS-Mate, the ideal tool for locating leaks in forming gas, flammable refrigerant, or combustible heating and appliance applications. GAS-Mate is also intrinsically safe, so you can leak check with confidence in potentially hazardous environments.

GAS-Mate outperforms other models with twice the sensitivity of many competitors—down to 5 ppm methane, the main component of natural gas. GAS-Mate also detects many other combustible gases, such as forming gas, 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, three-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	Two D-size (1.5V) alkaline batteries, included (use Duracell® MN1300 to maintain intrinsically safe approval)
Battery life	25 hours
Probe	Rubber-coated flexible metal, approx. 15 in. (38 cm) long
Alarm indicators	Multiple LEDs, variable intensity audio alarm
Weight with batteries	1.54 lb. (700 g)
Certifications	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
Warranty	Three-year replacement

### ORDERING INFORMATION

GAS-Mate	718-202-G1
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### REPLACEMENT PARTS

Sensor	706-700-G1
Storage case	718-701-G1

# CO Check<sup>®</sup>

## Carbon Monoxide Meter



CO Check comes with protective holster case (see description on page 18)

### 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

### SUPERIOR ACCURACY FOR PEACE OF MIND

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, ±1 ppm
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	Two-year replacement

### ORDERING INFORMATION

CO Check 715-202-G1

### REPLACEMENT PARTS

Holster case 715-400-P1

### 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

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



**TEK-CHECK™ R134A REFERENCE LEAK – 703-080-G10**

Use this reference leak to verify the functionality of your D-TEK Select, Compass or TEK-Mate Refrigerant Leak Detector. Leak rate of 0.175 to 0.315 oz./yr (5 to 9 g/a) (depending on environmental conditions) of R-134a with a lifetime of approximately one year. Small, compact canister easily fits in your leak detector's carrying case.



**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 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 Whisper Transmitter on and place it in the enclosed system you need to leak check. If Whisper detects the ultrasonic frequency generated by the Whisper Transmitter, you will know the presence and location of the leak. Dimensions (L x W x H): 2¼ x 3¾ x 1 in. (5.7 x 9.5 x 2.5 cm).



# 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 two-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 and refrigeration (medium-heavy use)	Commercial, residential, and automotive A/C (light-medium use)	Residential A/C and 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	\$\$\$	\$\$	\$
Grip/handle material	Rubber-coated plastic	Rubber-coated plastic	Plastic
Leak indicators	Seven LEDs, variable intensity audible alarm	Five LEDs, variable intensity audible alarm	One LED, variable intensity audible alarm
Power source	Rechargeable NiMH battery	Rechargeable NiMH battery	Two "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

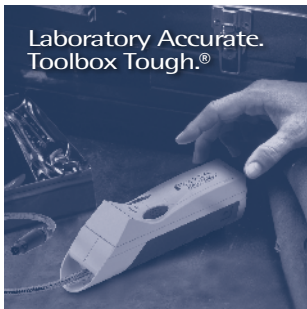
**IF YOU NEED MORE HELP, PLEASE CALL US AT 1-800-344-3304  
AND WE'LL HELP YOU PICK THE RIGHT INSTRUMENT FOR YOUR NEEDS.**

# 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](http://www.inficon.com).

## MARKETS WE SERVE:



HVAC, Refrigeration  
and Automotive Service



Emergency/Security/  
Environmental/  
Alternative Energy/  
Petrochemical



Air Conditioning/  
Refrigeration/Automotive



Solar/Semiconductor/  
Vacuum Coating Processes/  
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