

# Vacuum, gas tracer and pressurization units & Leak detectors

## D-TEK Select (Portable Leak Detector)

*Infrared leak detector portable version - for A1 and A2 refrigerant gas*



### D-TEK Select

This refrigerant leak detector uses an innovative infrared absorption sensing cell that is extremely sensitive to all refrigerants and is not sensitive to any other type of gases.

**D-TEK Select** Refrigerant Leak Detector maintains the 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. Additional enhancements include a charging status indicator, sensor failure indication, and rechargeable NiMH batteries.

### Specifications

Detection capabilities	R22, R134a, R404a, R410a, R448a, R507 (AZ-50), R32, HFO1234yf, SF6, and all other CFCs, HCFCs, HFCs, and HFOs
Minimum Sensitivity	3,0 g/year
Sensitivity according to EN14624 (R134a)	1,0 g/year
Operating Principle	Sniffer with evaluation of thermo-conductive sampled gas
Heating time / reaction time	~ 1 minute / 1 s
Leak detection method	Multiple LEDs, variable intensity audio alarm indicate leak strength
Probe length	38 cm
Autonomy	6,5 hours
Recharging time	8 hours (230 Vac battery charger)
Dimensions / Weight	220 x 65 x 30 mm / 0,45 kg
Standard content of the supply	Infrared cell, NiMH battery, spare filters, wall charger, 12 V car charger, hard plastic carrying case.

## GAS-Mate (Portable Leak Detector)

*safely detect flammable refrigerant and combustible A3 refrigerant leaks*



### 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. **GAS-Mate** outperforms other models with twice the sensitivity of many competitors - down to 5 ppm methane, the main component of natural gas. It also detects many other combustible gases, such as ammonia, propane, ethanol and hydrogen sulphide. No calibration is required for GAS-Mate or its field-replaceable sensor. Simply turn the unit on, allow it to warm up for two minutes and it is ready to quickly pinpoint any gas leaks present. When the **GAS-Mate** detects combustible gas, it emits an acoustic sound and the leak indicators flash. The faster emission of a sound or a fixed alarm indicates a higher concentration of gas.



### Specifications

Detection capabilities	R290, R600a, and R441a; Detects forming gas (95% Nitrogen, 5% Hydrogen)
Minimum Sensitivity	5 ppm: methane, R290 (propane), R600a (isobutane), hydrogen;
Operating Principle	Sniffer with evaluation of thermo-conductive sampled gas
Heating time / reaction time	~ 1 minute / 1 s
Leak detection method	Multiple LEDs, variable intensity audio alarm indicate leak strength
Probe length	38 cm
Autonomy	25 hours
Recharging time	8 hours (230 Vac battery charger)
Dimensions / Weight	220 x 65 x 30 mm / 0,45 kg
Standard content of the supply	Sensor, two "D" size alkaline batteries, hard plastic carrying case

Company Profile

Vacuum and Charging units

HC Refrigerants handling systems

Special units

Vacuum and Charging Injectors

Refrigerant transfer pump

Pressure test units leak detectors

Preliminary evacuation

Electrical and functional test

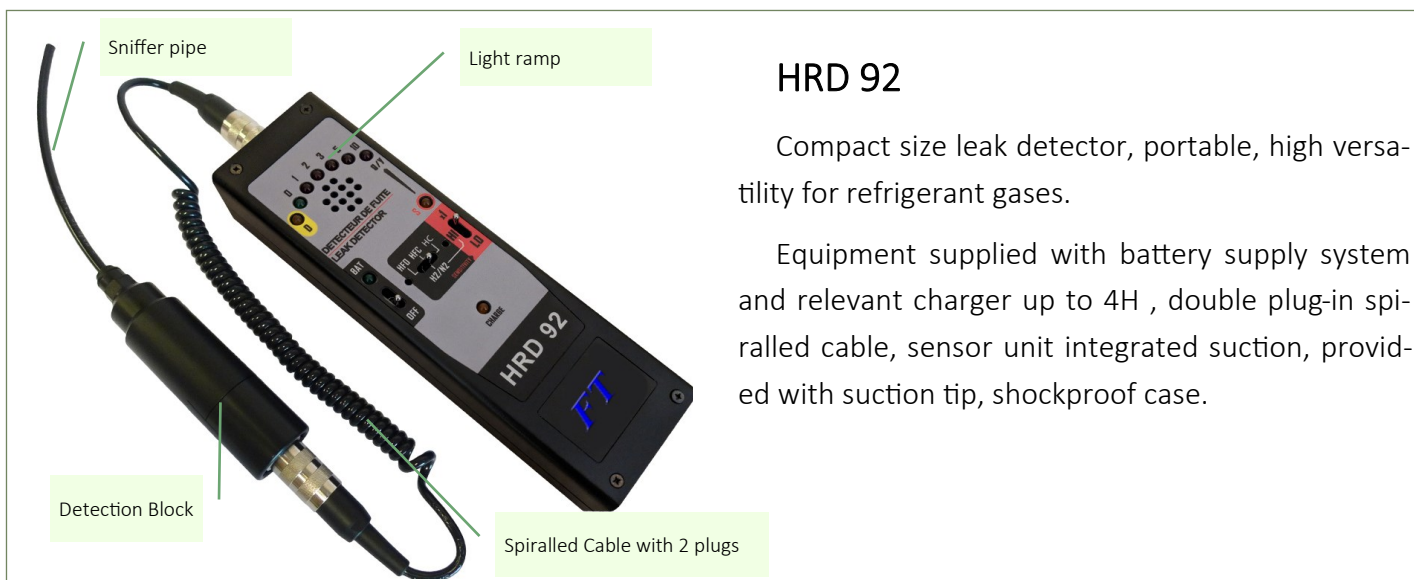
Ultrasonic tube sealers

IPCS & IPCS PLUS

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## HRD 92 (portable Leak Detector)

*Portable version - for refrigerant gas and tracers mixtures*



### HRD 92

Compact size leak detector, portable, high versatility for refrigerant gases.

Equipment supplied with battery supply system and relevant charger up to 4H , double plug-in spiralled cable, sensor unit integrated suction, provided with suction tip, shockproof case.

### Specifications

Available probes	All refrigerant gases detection block R1234ze, R134a, R404, R407, R410... R290, R600, NH3. Blends R1234ze & R134a Tracer mixture gases N2/H2 (5% H2)
Sensitivity probes for HFC and HC	from 0,3 to 30 g/year HFC, on three scales: 0,3 ÷ 3 g/year HFC, alarm @ 1 g/year 1 ÷ 10 g/year HFC, alarm @ 3 g/year 3 ÷ 30 g/year HFC, alarm @ 10 g/year  from 0,1 to 10 g/year HC, on three scales: 0,1 ÷ 1 g/year HC, alarm @ 0,3 g/year 0,3 ÷ 3 g/year HC, alarm @ 1 g/year 1 ÷ 10 g/year HC, alarm @ 10 g/year
Sensitivity probes for tracer mixtures N2/H2	from 2x10 <sup>-6</sup> to 2x10 <sup>-4</sup> cm <sup>3</sup> /s H2, on three scales: 2x10 <sup>-6</sup> ÷ 2x10 <sup>-4</sup> cm <sup>3</sup> /s H2, alarm @ 6x10 <sup>-6</sup> cm <sup>3</sup> /s 8x10 <sup>-6</sup> ÷ 8x10 <sup>-5</sup> cm <sup>3</sup> /s H2, alarm @ 2x10 <sup>-5</sup> cm <sup>3</sup> /s 2x10 <sup>-5</sup> ÷ 2x10 <sup>-4</sup> cm <sup>3</sup> /s H2, alarm @ 6x10 <sup>-5</sup> cm <sup>3</sup> /s
Operating Principle	Sniffer with evaluation of thermo-conductive sampled gas
Heating time / reaction time	~ 1 minute / 1 s
Reading display	Array of 6 LED alarm light and sound, self-diagnosis by means of LEDs indicating temporary malfunction or permanent as saturation, degassing, etc.
Probe length	1,5 m
Autonomy	4 hours
Recharging time	8 hours (230 Vac battery charger)
Dimensions / Weight	220 x 65 x 30 mm / 0,45 kg
Standard content of the supply	Charger, sensor with integrated suction unit, suction tip, shockproof case

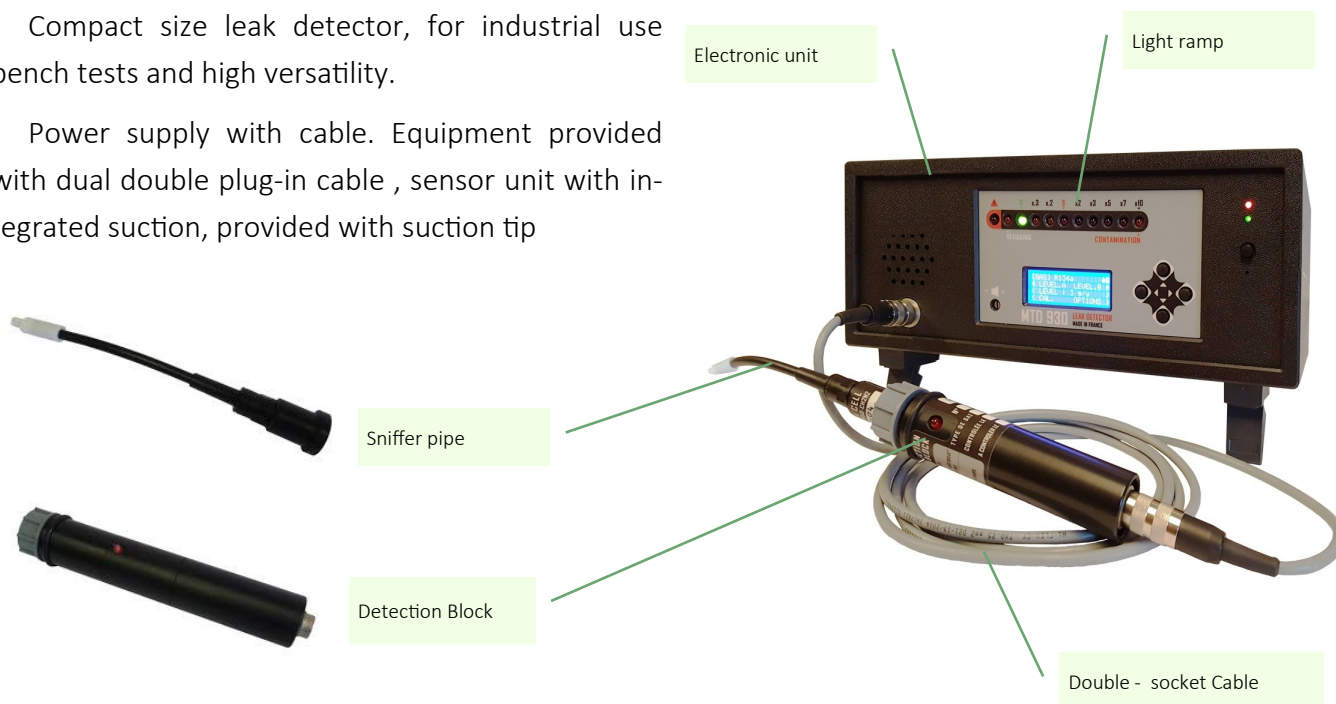
## MTD 930 (Industrial Leak Detector)

*industrial version - for refrigerant and HFO gas and tracers mixtures*

### MTD 930

Compact size leak detector, for industrial use bench tests and high versatility.

Power supply with cable. Equipment provided with dual double plug-in cable, sensor unit with integrated suction, provided with suction tip



### Specifications

Available Probe	R1234ze, R134a, R404, R407, R410a R290, R600 tracer mixture gases N2/H2 (5% H2)
Minimum Sensitivity for HFC, HC and HFO	H2/N2: 1 * 10 <sup>-5</sup> cc/s Equivalent R134a: 1 g/yr
Operating Principle	Sniffer with evaluation of thermo-conductive sampled gas
Reading display	4 lines LCD screen Light ramp with 3-tone sound signal Saturation indication with 10 times the set value Degassing Countdown timer Adjustable sound volume Indication of environmental contamination
Power supply / consumption	230/110 V, 50/60 Hz, 25 W
Cable length	1,5 m
Dimensions / Weight	300x 200 x 150 mm / 5 kg
Standard content of the supply	power supply cable, sensor with integrated suction unit, suction tip

Company Profile

Vacuum and Charging units

HC Refrigerants handling systems

Special Units

Vacuum and Charging Inletors

Refrigerant transfer pump

Pressure test units leak detectors

Preliminary evacuation

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Ultrasonic tube sealers

IPCS & IPCS PLUS

# Vacuum, gas tracer and pressurization units & Leak detectors

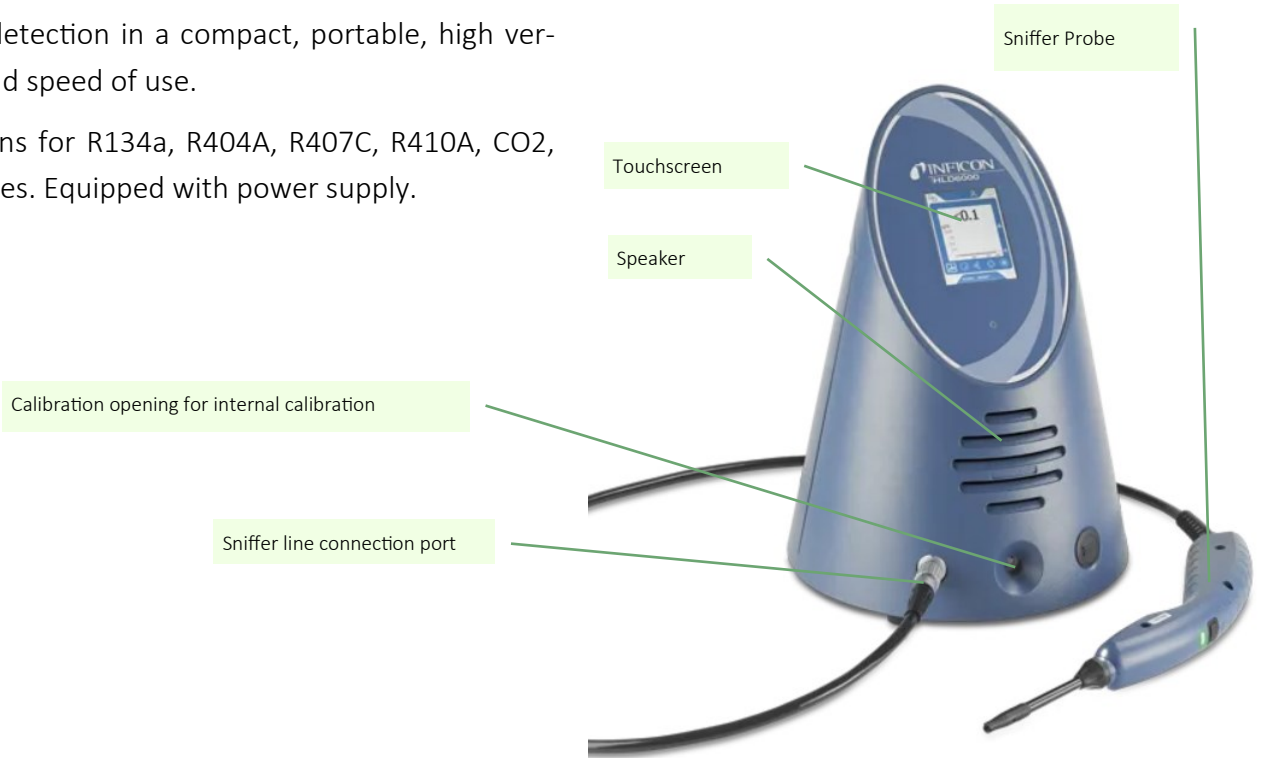
## HLD 6000 (industrial Leak Detector)

Infrared version - for Refrigerant Gas including HC

### HLD 6000

Leak detection in a compact, portable, high versatility and speed of use.

Versions for R134a, R404A, R407C, R410A, CO<sub>2</sub>, other gases. Equipped with power supply.



## Specifications

Detection capabilities	Version available for R134a, R404A, R407C, R410A, CO <sub>2</sub> and other gases
Sensitivity	1 ÷ 50 g/year
Signalling	Digital
Zero	Automatic, with self-compensation of environmental contamination
Reaction time	< 1 s
Calibration	Feasible within seconds by referring to internal calibrated leak
Probe length	4,8 m
Auto Test	available, aspirated gas flow 320 sccm
Working temperature	10 ÷ 50 °C
Dimensions (high x diameter)/ Weight	365 x 260 mm / 4,5 kg
Power supply / consumption	220/240 V - 50/60 Hz

## Ecotec E3000 (Industrial Leak Detector)

Mass spectrometer - for refrigerant gases and tracer mixtures

### Ecotec E3000

The Ecotec E3000 is a professional bench Leak detector with high functionality and versatility. Power is supplied by cable. Equipment provided with dual plug-in cable, sensor unit with integrated suction, suction tip. This device can be interfaced with the Pressurizing station **iAmiata**.



### Specifications

Detection capabilities	Gas CFC, HCFC, HFC, HC, He, etc.
Maximum Sensitivity	0,05 g/year 1x10 <sup>-6</sup> mbar l/s for He
Signalling	Digital by means of bar graph
Zero	Automatic, with self-compensation of environmental contamination
Number of detecting gases at the same time	Up to 4
Number of gas in the database	Over 100
Reaction time	<0,8 s
Calibration	Feasible within seconds by referring to internal certificated leak ECO. The operation can be done by external instruments.
Probe length	3 m
Auto Test	available, aspirated gas flow 160 sccm
Working temperature	10 ÷ 45 °C
Dimensions / Weight	610 x 370 x 265 mm / 34 kg
Power supply / consumption	220/240 V - 50/60 Hz

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HC Refrigerants handling systems

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## Protec P3000 (Industrial Leak Detector)

*Quartz window technology - for He tracer gas*

### Protec P3000

**Protec P3000** is a professional bench Leak detector with High versatility. The device can be connected to the **iAmiata** and **iFuji** units for a full data communication relevant to the leaks detection process.

Power supply with cable. Equipment provided with dual plug-in cable , sensor unit with integrated suction, suction tip.



Specifications	PROTEC P3000	PROTEC P3000 XL
Detection capabilities	Helium	
Maximum sensitivity / Range measure	1x10 <sup>-7</sup> mbar l/s / 5 decades	1x10 <sup>-7</sup> mbar l/s / 5 decades
Signalling	Digital by means of bar graph	
Zero	Automatic, with self-compensation of environmental pollution	
Reaction time	< 700 ms	< 450 ms
Calibration	Feasible within a few seconds referring to the calibrated leak certified PRO-Check integrated into the instrument	
Probe length	3 m, other length are available on request	
Auto Test	Available, gas flow aspirated 300 sccm	Available, gas flow aspirated 3000 sccm
Working temperature	10 ÷ 45 °C	
Dimensions / Weight	610 x 370 x 265 mm / 27 kg	
Power supply / consumption	220/240 V - 50/60 Hz	