

# HLD5000

## with R600a Probe

### Refrigerant Leak Detector



## THE ECONOMICAL CHOICE FOR HYDROCARBONS

The HLD5000 with R600a Probe is the cost-efficient option for testing RAC components and assemblies filled with R600a, R290 or other hydrocarbon gases. It uses innovative infrared technology to find leaks quickly and reliably, with dramatically fewer alarms.

### PROTECTS AGAINST FALSE ALARMS

The R600a Probe uses the same proven technology used in the INFICON HLD5000 Refrigerant Leak Detector probes. The HLD5000 with R600a Probe features the unique background compensation system of the dual gas inlet, enabling the HLD5000 to prevent false alarms due to background contamination. While very sensitive to hydrocarbons, the infrared sensor also effectively eliminates false alarms due to other refrigerants and non-refrigerant substances, such as water, human breath, that can cause false alarms with other sensor technologies.

### EASY TO USE

All programming is done via the front panel with direct alpha-numeric input. Menus are easy to use and are available in several languages, including Chinese and Japanese. Lamps on the front-panel display respond like a bar graph to show the relative leak rate level.

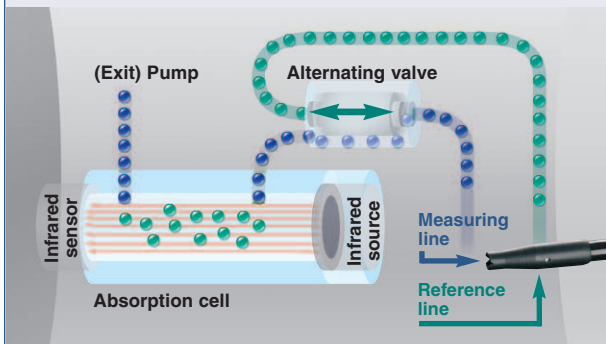
An alarm sounds when the leak is exceeded and provides a variable pitch tone for leak location. An LED on the probe handle changes color to provide additional confirmation when trigger level is exceeded. With the press of a button on the probe handle, you can immediately switch the unit to its maximum sensitivity to isolate the smallest leak. A search mode provides for fast scanning without missing leaks.

### LOW COST OF OWNERSHIP

The HLD5000 with R600a Probe is designed for maximum productivity.

- Unique infrared absorption sensor does not wear out.
- Sniffer probe can survive the abuses of the manufacturing environment.
- Simple and robust pump provides years of trouble-free sniffing.
- To conserve filter life, automatic standby stops the needless intake of contaminants into the sniffer probe while the unit is idle. Operation automatically resumes when the operator picks up the probe handle.
- 3-year warranty

## Basic Operating Principle



## How it works

The gas sample is drawn from a switching valve into an absorption cell. Infrared light is directed through the cell. When refrigerant is present in the flow, the sensor absorbs some of the infrared light and the amplitude drop is detected. INFICON is the only company to use this unique patented sensor and sampling system in a refrigerant leak detector.



## SPECIFICATIONS

Smallest detectable leak rate	0.5 g/a (0.02 oz/yr)
Measuring scale	0.5 – 50 g/a (0.02 – 1.76 oz/yr)
Response time	< 1s
Leak rate units	g/a; oz/yr; lb/yr; mbar l/s; Pa m <sup>3</sup> /s
Warm-up time	30 s
Detectable refrigerant	R600a, R290
Interfaces	RS232
Software available in	English, German, Spanish, French, Chinese, Japanese (Katakana)
Warranty	3 years

## ORDERING INFORMATION

	Cat.No.
HLD5000 with R600a probe and sniffer tip (100 mm, 3.9 in.)	510-018
R600a probe (for use with existing base unit)	511-038
Extra sniffer tip, 100 mm (3.9 in.), rigid	511-021
Extra sniffer tip, 400 mm (15.7 in.), flexible	511-024
Extra extension, 400 mm (15.7 in.), for sniffer tip	511-020
Extra extension, 500 mm (19.7 in.), for sniffer tip, 45° offset	511-029
Set of filter holders (20 pcs)	511-027
Set of filter cartridges (20 pcs)	511-018
Sniffer test leak for R600a, 2-5 g/a	12221
Sniffer test leak for R290, 2-5 g/a	12231
Sniffer test leak for R600a, 10-14 g/a	12241



### GLOBAL HEADQUARTERS:

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Due to our continuing program of product improvements, specifications are subject to change without notice.  
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