



## Industrial Refrigerant Leak Detector H25-IR PRO

### FEATURES

Exclusive NDIR Sensor Technology

Equipped with Advanced Leak Quantification (ALQ) Technology

Infrared Technology

Automatic calculation of leak rate regardless of flow rate

Assortment of various sized probes

Data logging and comprehensive diagnostics

### BENEFITS

Fast response to leaks - **Under 1 second** Detects leaks as small as **0.03 oz/yr (0.9 g/yr)**

Saves time by eliminating the need for periodic adjustments to a calibrated reference leak source

Quickly and accurately pinpoint leaks. Extend sensor life and minimize false alarms.

Quickly provides numeric leak rate display

Fits specific applications

Keep track of system parameters

### QUICK, ACCURATE DETECTION AND ANALYSIS OF REFRIGERANTS FOR HIGH PRODUCTION OPERATIONS

Bacharach's H25-IR PRO is an industrial-grade refrigerant leak detector and gas analyzer that uses proprietary leak quantification technology for accurate and reliable operation. Capable of detecting over 40 commonly used refrigerants and halogen gases, the H25-IR PRO even detects R600a and R-290. Used to locate and quantify gas leaks, the H25-IR PRO can also summate a group of leaks in a system. A new menu system simplifies set up and operation while preserving digital numeric leak rate display.



ADVANCED LEAK QUANTIFICATION TECHNOLOGY

LS-25 LEAK SOURCE



### ORDERING INFORMATION

P/N	DESCRIPTION
3016-1311	H25-IR PRO, CFC/HCFC sensor, 6 ft Smart Probe, US power cord
3016-1321	H25-IR PRO, CFC/HCFC sensor, 12 ft Smart Probe, US power cord
3016-1211	H25-IR PRO, CFC/HCFC sensor, 6 ft LED Button Probe, US power cord
3016-1221	H25-IR PRO, CFC/HCFC sensor, 12 ft LED Button Probe, US power cord
3016-1111	H25-IR PRO, CFC/HCFC sensor, 6 ft Std. Probe, US power cord
3016-1121	H25-IR PRO, CFC/HCFC sensor, 12 ft Std. Probe, US power cord
3016-3211	H25-IR PRO, R600a sensor, 6 ft Smart Probe, US power cord
3016-1322	H25-IR PRO, CFC/HCFC sensor, 12 ft Smart Probe, "G" type power cord
3016-1323	H25-IR PRO, CFC/HCFC sensor, 12 ft Smart Probe, "I" type power cord

#### HOW TO CONTACT US:

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[www.mybacharach.com](http://www.mybacharach.com)

For more information about the H25-IR PRO and other Bacharach products scan here.





INDUSTRIAL



REFRIGERATION

## TECHNICAL DATA

PRODUCTS ATTRIBUTES	DESCRIPTION
Detectable Gases	FA188, FC72, H1211, H1401, H2402, HFO1233zd, HFO1233ze, HFO1234yf, HFP, N1230, N4710, N7100, N7200, N7300, N7600, R-113, R-114, R-123, R-124, R-125, R-134a, R-21, R-22, R-227, R-23, R-236fa, R-32, R-401A, R-402A, R-402B, R-404A, R-407A, R-407C, R-407F, R-408A, R-409A, R-410A, R-422A, R-422D, R-424A, R-426A, R-427A, R-438A, R-448A, R-449A, R-452A, R-452B, R-500, R-502, R-503, R-507, R-508B, R-513A, R-514A, R-12, R-245fa
Optional Gases Detected	R-600a, R-290, SF <sub>6</sub> * (Optionals require an alternate NDIR bench installation in the H25-IR PRO)
Detection Method / Sensor	Non-Dispersive Infrared (NDIR)
Measurement Units	oz/yr, g/yr, mL/s, PaM <sup>3</sup> /s, ppm
Measurement Range	0.03 to 5.00 oz/yr, 0.85 to 142 g/yr, 0 to 1,000 ppm, 0.08 x 10 <sup>-5</sup> to 100 x 10 <sup>-5</sup> PaM <sup>3</sup> /s, 0.08 x 10 <sup>-5</sup> to 100 x 10 <sup>-5</sup> mL/s
Warm-Up Time	60 seconds to begin use
Measurement Adjustment	Possible with Bacharach's optional external leak source unit of a known gas type and leak rate
Operating Modes	<b>Search:</b> Detects presence and location of gas leaks <b>Measure:</b> Calculates and displays leak rate
Response Time	Less than 1 second, typical (dependent on probe-hose length)
Sensitivity	0.03 oz/yr (0.9 g/yr) for most gases
Resolution	0.1 leak units
PPM Accuracy	±10% of reading (or ±1% if recalibrated using a known concentration of most gases)
Temperature Drift	±0.3% of reading per °C
Relays	Four SPDT relays rated at 2A at 250 VAC (inductive) 5 A at 250 VAC (resistive) Programmable to energize under 11 different operating conditions
Audio Speaker	Audible indication of leak level
Operating Temperature	32° to 122° F (0 to 50° C)
Storage Temperature	-4° to 122° F (-20 to 50° C)
Ambient Humidity	5 to 90% RH, non-condensing
AC Power	100 to 240 VAC, 50/60 Hz
Dimensions	4.00 x 10.75 x 15.50 in (101.6 x 273.1 x 292.7 mm)
Weight	18 lbs (8.2 kg)
Warranty	2-year full warranty on instrument
Approvals	CE Mark, EN 50270:2015, EN 55011:2009/A1:2010, EN 61010-1 / IEC 61010-1, UL 61010-1 / CSA 61010-1

\* The H25-IR PRO is not designed or certified for intrinsic safety and may not be suitable for use in certain environments

### H25-IR PRO PROBE OPTIONS

#### Smart Probe

Features an LCD display to show leak rate and an LED indicator to signal the leak rate frequency or a defined threshold. Most functions, setups and features can be accessed via the probe's keypad.



#### LED + Button Probe

Features a button to zero the unit or switch between search and measure modes. The LED provides visual feedback of the leak rate frequency or a defined threshold.



#### Standard Probe

Features a flexible hose to pinpoint leaks. Does not provide visual feedback or allow user input.



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