

**Want to Eliminate Tracer Gas Costs and Supply Issues?
Switch to our Dual Tracer-Gas Leak Detector:**

MD-490S Dual Gas

User Selectable – Helium / Hydrogen Sniffer

With a touch of a button, this dual gas unit can detect either Helium or Hydrogen tracer gases, while using a single built-in dual purpose calibrated gas leak.



MD-490S Dual Gas Sniffer shown with Optional Remote Display and Vibra-Leak™ Probe

Features:

- Fastest response time in the industry (less than 0.5 seconds)
- Tracer gas background suppression
- Designed for use with 5% H₂ in N₂ gas mixture, or Helium (user selectable)
- Sensitivity to 10⁻⁷ Atm-cc/sec directread
- Less than 3 minutes total start-up time
- Fully interactive system diagnostics with multilingual displays
- Front panel key lock-out
- Includes standard sniffer probe
- Optional remote display and exclusive Vibra-Leak probe™
- Built-in dual purpose gas leak – 95% He / 5% H₂ for easy switch over



Vacuum Instruments Corporation, LLC

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vicleakdetection.com



MD-490S DUAL GAS — PERFORMANCE SPECIFICATIONS

Performance

Sensitivity: Smallest detectable leak rate 5×10^{-7} Atm-cc/second (atmospheric sniffer mode). Tuned for Mass 2.

Response Time: Approximately 0.5 seconds. Leak Rate Range: $10^{-3} \sim 10^{-7}$ Atm-cc/second direct reading of tracer gas leak rate (compensated for atmospheric sampling).

Startup Time: Less than 3 minutes; one-button automatic operation.

Electrical

Console: Microprocessor-based electronics incorporating 40-character alphanumeric prompting display; fully automatic operation including startup, shutdown, leak rate ranging, automatic zero, and diagnostics including operating and runtime parameters; contains 40 segment leak rate indicator and operator function buttons.

Mass Spectrometer

Miniaturized 90° deflection, fixed magnet design; all stainless steel construction; NW-40 flange for high vacuum connection; utilizes two non-burnout thoria coated iridium filaments.

Vacuum System

Pumps: 1.5 cfm mechanical rotary vane fore pump and 70-liter/second air-cooled molecular drag pump.

Inlet System: Interstage design incorporating integral mass separator high flow atmospheric inlet; standard sniffer probe hose length 10- feet; other lengths available.

Calibrated Leak: 150cc high pressure cylinder with low volume stainless steel leak element; traceable to N.I.S.T. with calibration certificate supplied; easily removable for recalibration.

Pressure Measurement: Probe blocked sensor (10^{-3} Torr); Turbopump speed characteristics for high vacuum (10^{-6} Torr).

Applications:

Air Conditioning and Refrigeration Systems

- coils • evaporators • condensers • compressors • hoses

Automotive Components

- radiators • air conditioning components • fuel tanks • fuel injection systems • air bags • heat exchangers • heater cores • pressure transducers • headlights • wheels • hoses

Appliance

- fire extinguishers • air conditioners • heat pumps • refrigerators • freezers • gas meters • gauges

Nuclear • containment vessels

Vacuum Systems • process gas lines • valves

Medical Products & related sub-assemblies

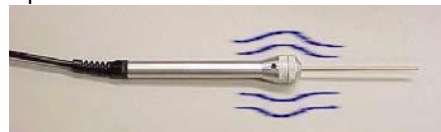
Packaging & related sub-assemblies

Aerospace Components & related sub-assemblies

Multilingual Alphanumeric Prompting Display



Optional Vibra-Leak™ Probe



Built-in Dual Gas Calibrated Leak



Power: 115/220 Volts AC, 60/50 Hz, 6/3 Amps; CE Compliant

Weight: 70 pounds (31.8 kilograms)

Dimensions: 13-9/16" (344mm) W x 15-9/16" (395mm) H x 24-5/16" (618mm) D

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Specifications subject to change without notice.

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