

# We test, You produce

## MD-490S MPS-MULTI-POINT SNIFFER

The MD-490S Portable Dry Helium Leak Detector – Multi-Point Sniffer Model has a response time less than 0.5 second, sensitivity to  $10^{-8}$  direct reading Atm-cc/sec, and the ability to zero-out background, this is the most aggressive portable leak detector in the industry, with advanced features designed specifically for industrial use. This unit is multi-plexed into an automated PLC-controlled manifold that drives a sequence for test recipes of a Multi-port clamshell application for sniffing.

The Multi-Point model enables leak tests for up to ten locations.

### BENEFITS

- Capable of leak testing up to 10 locations simultaneously
- Response Time less than 0.5 seconds
- Ability to zero-out background
- Portable
- Password Protection prevents unauthorized access



### Applications

Coils & Hoses, Evaporators & Condensers, Compressors, Radiators  
Air conditioning components, Fuel Tanks, Fuel Rails injection systems  
Hoses, Heat exchangers, Heater cores, Pressure transducers, Headlights  
Wheels, Fire Extinguishers, Gas Meters, Heat Pumps



# MD-490S

## MPS-MULTI-POINT SNIFFER

### Performance

- **Sensitivity:** Smallest detectable helium leak rate  $5 \times 10^{-5}$  Atm-cc/second helium (atmospheric sniffer mode). Helium leak tested to  $1.0 \times 10^{-6}$  atm-cc/sec@600 psig
- **Response Time:** Approximately 0.5 seconds
- **Leak Rate Range:**  $10^{-3}$ ~ $10^{-5}$  Atm-cc/second direct reading of helium 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

### System Details

- **Mass Spectrometer:** Miniaturized 90 deflection, fixed magnet design, all stainless-steel construction, MW-40 flange for high vacuum connection, utilizes two non-burnout coated filaments
- **Vacuum Pumps:** Dry (oil-free) built-in diaphragm fore pump and 9,000-liter/min 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); turbo-pump speed characteristics for high vacuum ( $10^{-6}$  Torr)



### Main Features

- Recovery efficiencies up to 98%
- Fastest response time in the industry (less than 0.5 seconds)
- Helium background suppression
- Maintenance-free, dry pump
- Less than 3 minutes total start-up time
- Fully interactive system diagnostics
- Front panel key lock-out
- USB port
- Menu-driven LCD multi-lingual display
- Built-in calibrated gas leak
- Five-year warranty on major components
- Automatic startup and shutdown
- Auto-ranging
- Probe Blocked feature with alarm to ensure proper system performance

### Technical Specifications

Physical	Dimensions: 13-9/16"(344mm) (WxHxD) 15 9/16"(395mm) x 24-5/16"(618mm) Weight: 70 pounds (31.8 kilograms)
Electrical supply	115/220 Volts AC, 60/50 Hz, 6/3 Amps; CE Compliant
Software	Linx Data Capture



Specifications subject to change without notice. noncontractual photos. March 2024.



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