

MD-490S

HELIUM LEAK TEST INSTRUMENT FOR INDUSTRIAL QUALITY CONTROL

The **MD-490S** is the leader among portable tracer gas leak detectors. With a response time less than 0.5 seconds, 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 applications. The **MD-490S** can be integrated with our **Smart Charge 5** evacuation and backfill station.

BENEFITS

- GRAPHICAL AND ALPHANUMERIC DISPLAYS
- MAXIMUM PERFORMANCE
- SIMPLIFIED SET-UP



Integrated solution for leak detection



Applications

Air Conditioning and Refrigeration Systems, Automotive Components and Appliances, Medical Products, Food Packaging, Aerospace Components...



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Measurement Characteristics

- Sensitivity: Smallest detectable helium leak rate 5×10^{-8} atm cc/sec
- Measuring Scale: 7 decades
- Response Time: less than 0.5 sec
- Pressure Measurement: Probe blocked sensor (10^{-3} Torr)
- Turbopump Speed characteristics for high vacuum (10^{-6} Torr)
- Internal Calibrated Gas Leak: ATEQ model M05, range is 1.5×10^{-5} to 7.5×10^{-5} atm cc/sec (150cc DOT rated cylinder, ISO 17025 and NIST traceable)

Test Modes

- Flow units (cc/sec, oz/yr, Pa m³/s)
- Helium sniffing test

Flexible Communication format

- Option Full duplex RS232 communication
- Option AC & DC PLC interfacing
- Option Analog outputs
- Option Data Link Software

Options

- ATEQ exclusive Vibrated-Probe w/built-in Auto Zero switch
- Remote Display
- Carrying Case
- Portable Cart

Accessories

- Test Booths and Fixturing
- Multi-point probes
- Robotic Sniffing
- Leak calibrator
- Master leak
- Connectors...

Main Features

- Fastest response time in the industry (less than 0.5 seconds)
- Helium background suppression
- Maintenance free, dry pump
- Sensitivity to 5×10^{-8} atm cc/sec
- Less than 3 minutes total start-up time
- Fully automatic calibration sequence with built-in 10^{-5} atm cc/sec gas leak
- Front panel key lock-out
- Sealed membrane keypad
- Fully interactive system diagnostics with multilingual displays
- High output (110dB) adjustable audio alarm

Technical Specifications

Physical	Weight: 31.8 Kg - 70.107 lbs
Dimensions	Dimensions: (W x H x D): 13.5 x 15.5 x 24.3 inch 34.4 x 39.5 x 61.8 cm
Interface	40 Character alphanumeric prompting display with intuitive menu-driven operator controls
Electrical supply	115/220 Volts AC, 60/50 Hz 6/3 Amps: CE Compliant
Temperature	Operating: 32F to 115F / + 0°C to + 46°C Storage: 32F to 140F / + 0°C to + 60°C

Other Formats & Integration

- SMART CHARGE 5



MD-490S can be fully integrated with our Smart Charge 5 evacuation and backfill station.

