

## MD-490S

### DUAL TRACER GAS LEAK TEST INSTRUMENT FOR INDUSTRIAL QUALITY CONTROL

The **MD-490S DG** is a leader among portable tracer gas leak detectors. Everything has been designed to make industrial leak testing fast, safe and user friendly, while guaranteeing measurement performance and reliability.

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 sniffing helium/hydrogen leak detector in the industry, with advanced features designed specifically for industrial applications.

#### BENEFITS

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



#### 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  $5 \times 10^{-8}$  atm cc/sec
- Sensitivity: Smallest detectable hydrogen leak rate  $5 \times 10^{-7}$  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)
- Dual Purpose (95% He/5% H<sub>2</sub>) Internal Calibrated Gas Leak: Ateq model M05, range is  $1.5 \times 10^{-5}$  to  $7.5 \times 10^{-5}$  atm cc/sec helium and  $1.5 \times 10^{-6}$  to  $7.5 \times 10^{-6}$  atm cc/sec hydrogen (150cc DOT rated cylinder, ISO 17025 and NIST traceable)

### Test Modes

- Flow units (cc/sec, oz/yr, Pa m<sup>3</sup>/s)
- Helium or hydrogen 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)
- Tracer gas background suppression
- Less than 3 minutes total start-up time
- Fully automatic calibration sequence with built-in dual purpose gas leak
- User selectable between helium and hydrogen sniffer
- Front panel key lock-out
- Sealed membrane keypad
- Fully interactive system diagnostics with multilingual displays
- High output (110dB) adjustable audio alarm

### Technical Specifications

Electrical supply	115/220 Volts AC, 60/50 Hz 6/3 Amps; CE Compliant
Physical	Weight: 70 lbs/31.8 Kg
Dimensions	(WxHxD) 344 x 395 x 618 mm - 13.5" x 15.5" x 24.4" inch
Interface	40 Character alphanumeric, prompting display with intuitive menu-driven operator controls
Temperature	Operating: 32F to 115F / + 0°C to + 46°C Storage: 32F to 140F / + 0°C to + 60°C

### Other Formats

- MD-490S Helium Leak Detector



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

