

## 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...



# MD-490S

## HELIUM LEAK TEST INSTRUMENT FOR INDUSTRIAL QUALITY CONTROL

### Measurement Characteristics

- Sensitivity: Smallest detectable helium leak rate  $5 \times 10^{-8}$  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  $1.5 \times 10^{-5}$  to  $7.5 \times 10^{-5}$  atm cc/sec (150cc DOT rated cylinder, ISO 17025 and NIST traceable)

### Test Modes

- Flow units (cc/sec, oz/yr, Pa m<sup>3</sup>/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  $5 \times 10^{-8}$  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

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 Dual Gas (He/H<sub>2</sub>)



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

