LEAK TESTING SOLUTIONS for PRODUCTION APPLICATIONS

TITANTEST™ Production Series
Helium Mass Spectrometer Leak Detector
DEMAND THE BEST — TITANTEST

Quality products demand a comprehensive and dependable leak detection test solution — TITANTEST P-Series Helium Leak Detector is a robust, cost-effective solution for low-volume production leak testing applications. Meet the demands of your leak testing process with a feature-rich reliable design, and a comprehensive choice of options and accessories. Designed by the industry's most experienced team of leak testing engineers, LACO's TITANTEST provides both the tools and the expertise to ensure your success.

1. GRAPHICAL INTERFACE WITH POWERFUL PRODUCTION SOFTWARE
   AutoTest Features:
   • Test cycle timers
   • Pass/fail outputs
   • Programmable reject limits
   • Helium background verification
   • Built-in helium contamination protection

2. ENHANCED OIL MANAGEMENT FEATURES
   • High capacity oil mist eliminator with auto drainback
   • Quick oil change without need to remove cover

3. POWERFUL ALARM FEATURES
   • Audio alarm with variable pitch
   • Multiple reject limit settings
   • Alarm/fail output trigger

4. AUTO-CALIBRATION
   • Auto-calibration in all three test modes
   • Built-in helium calibrated leak standard
   • Auto-calibration with external calibrated leak

5. TEST MODES
   • Vacuum (gross, fine, and ultra)
   • Sniffer

6. HELIUM AND HYDROGEN BACKGROUND SUPPRESSION
   • Leak testing sensitivity optimization

7. COMPREHENSIVE I/O
   • Serial, discrete, and analog interface
   • External pump and valve control
   • Interface to TCM50 Communication Module or ATLAS Controller

User-friendly interface is easy to navigate allowing for quick set up of test parameters.

Software features include Mode Selection (vacuum, sniffing, auto), Auto Test, Calibration and System Utilities.

UNIQUE BENEFITS OF TITANTEST P-SERIES HELIUM LEAK DETECTOR

UNMATCHED PRODUCT WARRANTY*
• Leak Detector — 2 years
• Ion Source — 3 years
• Calibrated Leak Standard — Lifetime warranty

72-HOUR UPTIME GUARANTEE*
Keep your leak test process on track with our enhanced warranty exchange guarantee.
Temporary replacement leak detector ships within 72-hours, keeping your leak test process up and running.

24/7 PRODUCT SUPPORT PROGRAM*
Contact LACO any time (24 hours a day, seven days a week) to receive support when you need it.
By providing knowledgeable and responsive technical support we help increase your uptime!

FREE CALIBRATED LEAK EXCHANGE PROGRAM*
No charge annual calibrated leak standard exchange for the lifetime of your leak detector.
LACO will exchange your internal leak standard annually with a newly recalibrated leak standard, keeping your system performing efficiently.

* Contact LACO Technologies for a complete list of details.
Accompanied by its many accessories, the TITANTEST P-Series Helium Leak Detector is the complete solution for your production helium leak testing needs. With its powerful and full-featured software interface, integration of support peripherals such as the ATLASTM Leak Test Controller and the TCM50 Communication Module is seamless. When it comes to production leak testing solutions, TITANTEST is in a class all by itself!

**THE SOLUTION**

**TCM50 COMMUNICATION MODULE**
- DATA COLLECTION | REMOTE MONITORING
  - The perfect complimentary accessory to the TITANTEST, the TCM50 Communication Module provides:
    - Configurable data logging capabilities
    - Remote monitoring of system
    - Ethernet interface
    - Color touchscreen display
    - Ticket printer (optional)

**ATLAS LEAK TEST PROCESS CONTROLLER**
- HELIUM MANAGEMENT | TEST AUTOMATION
  - ATLAS* is a flexible tracer gas leak testing controller that allows for the following:
    - Remote control of TITANTEST to fully automate the leak test process
    - Air proof testing
    - Air gross leak testing
    - Helium charging
  - *Includes all TCM50 functionality

**TEST CHAMBERS & TOOLING**
- LACO’s engineers have extensive experience in designing tooling and test fixtures to guarantee test reliability and robust performance to meet your exacting needs.
  - Inlet test chambers
  - Custom test chambers
  - Custom tooling

**ADDITIONAL ACCESSORIES**
- Standard and custom carts for mobility and ergonomics
- Wired and wireless remote controls
- Calibrated leak standards
- Sniffer and Spray Probes
- High capacity oil-sealed and dry external vacuum pump and valve kits
- Stainless steel work surface
<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>WET PUMPING TECHNOLOGY</th>
<th>DRY PUMPING TECHNOLOGY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum Detectable Helium Leak Rate (ultra fine mode)</td>
<td>&lt;5 x 10^{-12} atm.cc/sec</td>
<td>5 x 10^{-8} atm.cc/sec</td>
</tr>
<tr>
<td>Minimum Detectable Helium Leak Rate (sniffing mode)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum Inlet Pressure</td>
<td></td>
<td>25 mbar</td>
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<tr>
<td>Inlet Helium Pumping Speed (ultra fine mode)</td>
<td></td>
<td>2.5 L/sec</td>
</tr>
<tr>
<td>Roughing Pump Capacity</td>
<td>3.5 CFM</td>
<td>8 CFM / 16 CFM</td>
</tr>
<tr>
<td>Inlet Test Port Configuration</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Detectable Gases</td>
<td>He4, He3, and H2</td>
<td></td>
</tr>
<tr>
<td>Start-up Time</td>
<td>Response Time</td>
<td>&lt;3 minutes</td>
</tr>
<tr>
<td>Ambient Operating Temperature</td>
<td></td>
<td>50° F to 96° F</td>
</tr>
<tr>
<td>Operating Voltage (single phase)</td>
<td>115/230 VAC, 50/60 Hz</td>
<td></td>
</tr>
<tr>
<td>Approximate Weight (bench-top)</td>
<td>100 lbs*</td>
<td>62.5 lbs**</td>
</tr>
<tr>
<td>Approximate Dimensions (bench-top model)</td>
<td>22&quot; L x 18&quot; W x 12&quot; H</td>
<td></td>
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| Interface                          | RS232 or RS485, Analog Output, Discrete I/O | }