LACO’s AURA™ Multi-Test is an automated multi-functional air leak tester designed for your most demanding production leak testing applications. The standard model can be configured to one of five robust test methods with up to four channels testers for decay testing, and can easily integrate with required test fixtures and tooling. In applications where customization is needed, the AURA™ Multi-Test provides complete flexibility. The AURA™ Multi-Test can be customized with modified internal components, unique test sequences, and other software functionality to meet your specific test specifications.

**FEATURES**

- Five leak test methods: vacuum decay, pressure decay, differential pressure, mass flow, and mass flow differential
- Built-in, ISO 17025 certified/NIST traceable calibrated leak standard with lifetime warranty
- Two test acceptance methods: pressure drop or calibrated leak standard (for vacuum/pressure decay)
- Up to 100 customized test recipes
- 5.7” color touchscreen with live graphing
- Four channel testers available for decay testing
- Tooling, chambers, or software customization
- Automated part clamping / sealing

**OPTIONS & ACCESSORIES**

- Two test pressures and fast fill option
- Volume dump method for testing sealed (non-fillable) parts
- Customize to large flow or high pressure
- Combined force decay and pressure decay for testing flexible parts
- Bar code reader and ticket printer

**COMMUNICATION & DATA LOGGING**

- Ethernet interface and remote control (RS232)
- Enter test ID data manually or via optional bar code reader
- Test summary log to .csv file
- Retrieve data by SD card or Ethernet connection
- Data storage capacity of over 5 million test results via internal 8GB SD card

**SPECIFICATIONS**

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONTROL SYSTEM</td>
<td>Micro controller with 5.7” color touchscreen and illuminated start/stop buttons</td>
</tr>
<tr>
<td>COMMUNICATION</td>
<td>Ethernet and RS232 (for remote control and bar code)</td>
</tr>
<tr>
<td>TEST METHODS</td>
<td>Pressure and vacuum decay, differential pressure, mass flow, mass flow differential, and force decay (custom)</td>
</tr>
<tr>
<td>TEST PRESSURE</td>
<td>Up to 3,000 psig</td>
</tr>
<tr>
<td>LEAK TEST SENSITIVITY</td>
<td>&lt; 0.1 scc/m (time and part size dependent)</td>
</tr>
<tr>
<td>PRESSURE RESOLUTION</td>
<td>24 Bit A-D, 0.00001 psi resolution (0-100 psig full scale)</td>
</tr>
<tr>
<td>LEAK STANDARD</td>
<td>Includes, ISO 17025 certified/NIST traceable calibrated leak standard with lifetime warranty</td>
</tr>
<tr>
<td>PNEUMATICS</td>
<td>Compressed air required (70-120 psig)</td>
</tr>
<tr>
<td>DIMENSIONS</td>
<td>11”H x 16”W x 16”D (28 cm H x 41 cm x 41 cm D) with sloped front</td>
</tr>
<tr>
<td>MOUNTING</td>
<td>Table top box or system frame mount</td>
</tr>
<tr>
<td>ELECTRICAL</td>
<td>90-250 VAC, 50/60 Hz, 250 Watts, IEC C13 connection</td>
</tr>
<tr>
<td>CONTROL OPTIONS</td>
<td>Controller includes standard I/O for remote control and clamping plus spare I/O (digital and analog) to provide a customized solution</td>
</tr>
</tbody>
</table>
### AURA™ MULTI-TEST ACCESSORIES

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>PART NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bar Code Reader for AURA™ Multi-Test</td>
<td>LT-BC</td>
</tr>
<tr>
<td>Ticket Printer for AURA™ Multi-Test</td>
<td>LT-PT</td>
</tr>
</tbody>
</table>

### EXTERNAL OPEN-STYLE CALIBRATED LEAK STANDARDS FOR AURA™ MULTI-TEST

<table>
<thead>
<tr>
<th>GAS</th>
<th>LEAK RATE</th>
<th>INLET PRESSURE</th>
<th>CONNECTION</th>
<th>PART NUMBER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air</td>
<td>0.1 scc/m</td>
<td>25 psig</td>
<td>Straight, 10-32 Male</td>
<td>CM521.0-11009A0/3/25-2</td>
</tr>
<tr>
<td>Air</td>
<td>0.3 scc/m</td>
<td>25 psig</td>
<td>Straight, 10-32 Male</td>
<td>CM523.0-11009A0/3/25-2</td>
</tr>
<tr>
<td>Air</td>
<td>5 scc/m</td>
<td>25 psig</td>
<td>Straight, 10-32 Male</td>
<td>CM525.0-01009A0/3/25-2</td>
</tr>
<tr>
<td>Air</td>
<td>0.2 scc/m</td>
<td>25 psig</td>
<td>Straight, 10-32 Male</td>
<td>CM522.0-11009A0/3/25-2</td>
</tr>
</tbody>
</table>

(Many other leak standard configurations available including alternate leak rate values based on different pressure requirements. Quotes for custom configurations available upon request.)

### PART NUMBER MATRIX

#### Prefix
- 0 = High Vacuum (< 10 Torr)
- 1 = Vacuum (> 50 Torr)
- 2 = 0-10 PSIG
- 3 = 0-50 PSIG
- 4 = 0-100 PSIG
- 5 = 0-400/500 PSIG
- 6 = 0-1000 PSIG
- 7 = 0-1500 PSIG
- 8 = 0-3000 PSIG

#### Test Type
- V = Vacuum Decay
- C = Vacuum Decay - Chamber
- P = Pressure Decay
- E = Pressure Decay - Chamber
- D = Pressure Differential Decay
- M = Mass Flow Direct
- F = Mass Flow Differential (& Decay)

#### Channels
- 1 = One
- 2 = Two
- 4 = Four

#### Valve Flow
- L = Low (Small to Medium Part)
- M = Medium (Medium to Large Part)
- H = High (Very Large Part)

#### Pressure Range
- 0 = High Vacuum (< 10 Torr)
- 1 = Vacuum (> 50 Torr)
- 2 = 0-10 PSIG
- 3 = 0-50 PSIG
- 4 = 0-100 PSIG
- 5 = 0-400/500 PSIG
- 6 = 0-1000 PSIG
- 7 = 0-1500 PSIG
- 8 = 0-3000 PSIG

#### Mass Flow Range
- 0 = None
- 1 = 0-20 scc/m
- 2 = 0-100 scc/m
- 3 = 0-500 scc/m
- 4 = 0-1000 scc/m

#### Standard Options
- Leave Blank if No Option is Required
- BT = Inlet Buffer Tank & Regulator
- LV = 1000 CC Reference Volume
- MV = 500 CC Reference Volume
- SV = 150 CC Reference Volume
- CT = Deep Vacuum Cold Trap

Be sure to confirm the validity of part numbers with LACO’s sales team before placing an order.

Automated air vacuum decay leak testing system using the AURA™ Multi-Test leak tester, a LACO vacuum test chamber (with 3 inserts to accommodate 3 different part sizes), and a barcode reader for easy data collection.