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

**FEATURES**

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

* Lifetime warranty

**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 7.0” 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/IEC 17025:2005 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>

**2 YEAR WARRANTY ON LEAK TESTER**

**LIFETIME WARRANTY ON CALIBRATED LEAK STANDARD**
AURA MULTI-TEST ACCESSORIES

DESCRIPTION | PART NUMBER
--- | ---
Bar Code Reader for AURA Multi-Test | TCM-BC
Ticket Printer for AURA Multi-Test | TCM-PT

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.)

PART NUMBER MATRIX

Prefix

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 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)

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

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

Channels
1 = One
2 = Two
4 = Four

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

Regulator Configuration
S = Single Manual
D = Dual Manual
L = Dual Manual with 2 Calibrated Leaks
E = Electronic

10-32 thread open-style leak standard

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 three inserts to accommodate three different part sizes), and a barcode reader for easy data collection.