

ATLAS CONTROLLER

Automate your helium filling and leak test process with LACO's Atlas™ Leak Test Process Controller. Atlas™ is a flexible controller that allows for helium charging, evacuation, air proof testing, and decay testing of products for tracer gas leak testing. The standard controller can be configured for automated hard vacuum, HATS™, sniffing, and accumulation helium leak testing methods. The Atlas™ can be integrated with LACO's TitanTest™ helium leak detector to create an automated leak testing system.

FEATURES

- Includes basic helium charging with part evacuation, air fill, and helium fill options
- Ability to remotely monitor TitanTest™ Leak Detector
- Comprehensive flow and pressure ranges available
- Fully automated testing with four helium leak testing methods: hard vacuum, HATS™, sniffing, and accumulation
- Complete part testing capabilities including system calibration with a calibrated leak standard
- Automated part clamping / sealing
- Up to 100 customized test recipes
- 5.7" color touchscreen
- Tooling, chambers, or software customization



OPTIONS & ACCESSORIES

- Customizable to meet customer requirements
- Remote data logging
- Electronic regulators
- Flow / occlusion test
- Control power to evacuate pump
- Bar code reader and ticket printer

COMMUNICATION & DATA LOGGING

- Ethernet interface and remote control (RS232)
- Enter test ID data manually or via bar code
- Test summary log or live data stream 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

COMPONENT	DESCRIPTION
CONTROL SYSTEM	Micro controller with 5.7" color touchscreen and illuminated start/stop buttons
COMMUNICATION	Ethernet, RS232 remote control, optional bar code serial port
INTEGRATION METHODS	Fill only, hard vacuum, HATS™, sniffing, and accumulation
TEST PRESSURE	< atmosphere up to 3000 psig
PNEUMATICS	Compressed air required (70-120 psig)
DIMENSIONS	11" H x 16" W x 16" D (28 cm H x 41 cm x 41 cm D) with sloped front
MOUNTING	Table top box or system frame mount
ELECTRICAL	90-250 VAC, 50/60 Hz, 500 Watts, IEC C13 connection
CONTROL OPTIONS	Controller includes spare I/O (digital and analog) to provide customized solution

ATLAS CONTROLLER

Helium Fill

- A = 0-15 PSIA Medium Flow
- B = 1-25 PSIG Medium Flow
- C = 2-125 PSIG Medium Flow
- D = 5-450 PSIG Medium Flow
- E = 5-1000 PSIG Medium Flow
- F = 25-3000 PSIG Medium Flow
- H = 0-15 PSIA High Flow
- J = 1-25 PSIG High Flow
- K = 2-125 PSIG High Flow
- L = 5-500 PSIG High Flow

PART NUMBER MATRIX

Part Evacuation

- X = None
- V = ~75 Torr, Venturi
- P = <1 Torr, 2-Stage Pump

Prefix

A T - C 1 A X X - R

Test Method

- C = Helium Charge
- V = Hard Vacuum
- H = HATS™*
- S = Sniffing
- A = Accumulation

Manifold

- 1 = Single

Air Fill

- X = None
- A = 0-15 PSIA Med Flow
- B = 1-25 PSIG Med Flow
- C = 2-125 PSIG Med Flow
- D = 5-450 PSIG Med Flow
- E = 5-1000 PSIG Med Flow
- F = 25-3000 PSIG Med Flow
- H = 0-15 PSIA High Flow
- J = 1-25 PSIG High Flow
- K = 2-125 PSIG High Flow
- L = 5-500 PSIG High Flow

Options

- R = Helium Exhaust Port
- C = Chamber Calibrated Leak
- F = Flow Test
- V = Deep Vacuum Testing/Gauge (Pirani)
- T = 2 Part/Tooling Pneumatic Outputs

**HATS™ is a patented (U.S. Pat. No. 7,905,132) helium leak test method for production leak testing which uses a permeable membrane to direct the leak to the mass spec while protecting it from contaminants. Contact us for more information.*



ATLAS™ ACCESSORIES

DESCRIPTION	PART NUMBER
Barcode Reader for Atlas™	TCM-BC

Automated helium hard vacuum leak testing system using a TitanTest™ leak detector, a LACO vacuum test chamber, and an Atlas™ leak test process controller with data logging.