

# LACO TECHNOLOGIES

## Ti TAN<sup>TEST</sup> LEAK DETECTOR

LACO's TitanTest™ leak detector brings you powerful solutions that target the unique challenges of today's production leak testing applications. Meet the demands of your leak testing process with a feature-rich design and an unparalleled choice of options and accessories. Designed by the industry's most experienced team of leak testing engineers, TitanTest™ provides both the tools and the expertise to ensure your success.



### FEATURES

- Three vacuum test modes: gross, fine, and ultra
- Auto-calibration with built-in helium calibrated leak
- Helium and hydrogen background suppression
- Audio alarm with variable pitch
- Flexible I/O to interface with external vacuum pumps and helium charge system
- Powerful software for semi-automatic and fully automatic test (AutoTest) modes
- Long-life yttria coated iridium filament

2-YEAR WARRANTY ON LEAK DETECTOR • 3-YEAR WARRANTY ON ION SOURCE • LIFETIME WARRANTY ON CALIBRATED LEAK STANDARD

	SPECIFICATIONS	
	WET PUMPING TECHNOLOGY	DRY PUMPING TECHNOLOGY
Minimum detectable helium leak rate (ultra fine vacuum mode)	<5 x 10 <sup>-12</sup> atm.cc/sec	
Minimum detectable helium leak rate (sniffing mode)	5 x 10 <sup>-8</sup> atm.cc/sec	
Maximum inlet pressure	25 mbar	
Inlet helium pumping speed (ultra fine mode)	2.5 L/sec	
Roughing pump capacity	3.5 CFM / 14 CFM* / 28 CFM*	8 CFM** / 16 CFM**
Inlet test port configuration	NW25	
Detectable gases	He4, He3, and H2	
Start-up time	< 3 minutes	
Response time	< 0.5 seconds	
Ambient operating temperature	50° F to 96° F	
Operating voltage (single phase)	115/230 VAC, 50/60 Hz	
Approx. weight (bench-top model)	100 lbs.*	62.5 lbs.**
Approx. dimensions (bench-top model)	22" L x 18" W x 12" H*	22" L x 18" W x 12" H**
Interface	RS232 or RS 485, Analog Output, Discrete I/O	

### AUTOTEST FEATURES

- Test cycle timers
- Programmable reject limits
- Helium background verification
- Built in helium contamination protection
- Pass/Fail outputs
- Optional integration with external helium gas charging module

\*Wet pump options larger than 3.5 CFM mounted externally. Weight and dimensions available upon request.

\*\*Dry pump weight and dimensions do not include roughing pump. Dry pump mounted externally.

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EXTERNAL VACUUM PUMP KITS	
DESCRIPTION	PART NUMBER
Rotary Vane Pump, 14 CFM, NW25, Oil Mist Eliminator, Cart Vibration Mount	T102599-14C
Rotary Vane Pump, 14 CFM, NW25, Oil Mist Eliminator, Benchtop	T102599-14B
Rotary Vane Pump, 28 CFM, NW25, Oil Mist Eliminator, Cart Vibration Mount	T102599-28C
Rotary Vane Pump, 28 CFM, NW25, Oil Mist Eliminator, Benchtop	T102599-28B
Dry Scroll Pump, 8 CFM, NW25, Cart Vibration Mount	T102599-08C
Dry Scroll Pump, 8 CFM, NW25, Benchtop	T102599-08B
Dry Scroll Pump, 16 CFM, NW25, Cart Vibration Mount	T102599-16C
Dry Scroll Pump, 16 CFM, NW25, Benchtop	T102599-16B

COMMUNICATION MODULE	
DESCRIPTION	PART NUMBER
TitanTest™ Communication Module with Data Logging / Ethernet	TCM50
TitanTest™ Communication Module with Data Logging / Ethernet / Printer	TCM50-PT
Barcode Reader for TitanTest™ Communication Module	TCM-BC
WiFi Adapter for TitanTest™ Communication Module	TCM-WIFI

HELIUM CHARGE SYSTEM	
DESCRIPTION	PART NUMBER
Helium Charge System with Data Logging / Ethernet (Various Pressures and Configurations Available)	HCS-TCM50

LEAK TESTING ACCESSORIES	
DESCRIPTION	PART NUMBER
Sniffer Probe - 10 ft (3 m)	LSP-01N-10
Sniffer Probe - 33 ft (10 m)	LSP-01N-33
Enhanced Sniffer Probe - 10 ft (3 m), Pass/Fail + Zero Function, Rigid Tip	T2003
Enhanced Sniffer Probe - 33 ft (10 m), Pass/Fail + Zero Function, Rigid Tip	T2010
Helium Spray Probe - 10 ft (3 m) Poly tube	LHSP-01
Helium Spray Probe - 10 ft (3 m) Poly tube with Regulator	LHSP-04
Helium Spray Probe - 10 ft (3 m) Poly tube with Regulator and 620cc Reservoir Bottle	LHSP-07

FILTERS	
DESCRIPTION	PART NUMBER
Inline NW25 Filter Housing with 40 Micron Sintered Bronze Element	LVF-E-NW25-40-10

EXTERNAL PUMP VALVE KITS	
DESCRIPTION	PART NUMBER
<b>Vacuum Operated Valve</b>	
Kit for Cart Configuration	T102587-EC
Kit for Benchtop Configuration	T102587-EB
<b>Pneumatic Operated Valve</b>	
Kit for Cart Configuration	T102587-PC
Kit for Benchtop Configuration	T102587-PB

(All kits include: Valve, Hose, Manifold, Connection Cable, Solenoid Valve, Electrical Connections. Pneumatic kit includes regulator.)

CART OPTIONS (COMPATIBLE WITH ALL OFFERED EXTERNAL PUMPS)	
DESCRIPTION	PART NUMBER
Cart	T102378-NC
Cart with Power Module	T102378-PC
Power Module	T102166
Shelf for TitanTest™ Communication Module	T102745
Shelf for Helium Charge System	T102746
Stainless Steel Work Surface	T102607

REMOTE CONTROL	
DESCRIPTION	PART NUMBER
Wired Remote Control RC 800, 13 ft (4 m) Cable Included	TR100
Wireless Remote Control RC 800 WL, Up to 330 ft (100 m)	TR101

CALIBRATED LEAK STANDARDS	
DESCRIPTION	PART NUMBER
Internal Helium Leak Standard for TitanTest™, Low 10 <sup>-7</sup> mbarL/sec	CM102492
External Helium Leak Standard, Low 10 <sup>-7</sup> mbarL/sec, NW25, Manual Isolation Valve	CM51L-71111V0/4
Sniffer Helium Leak Standard, 5 x 10 <sup>-4</sup> mbarL/sec, Sniffer Adaptor, Pressure Gauge, Refill Valve	CM515.0-4102DAG/4