

Leland Legacy Sample Pump

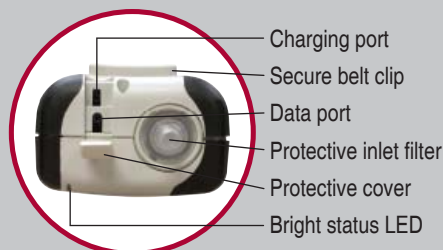
High Flows, Long Runs Enhance Measurement Sensitivity!

Flows: 5 to 15 L/min

Certifications

CE

ET ✓
performance
verified



Top view



Leland Legacy® in CalChek calibration train

High flows — 5 to 15 L/min

- Provides the high flows and long run times of a vacuum-style pump in a compact, portable, battery-operated sampler

Designed for use with impactors, spore traps, 37-mm filters, low-volume PUF tubes, and other low-pressure applications†

Long 24-hour runs on one charge with Li-Ion battery

- Suitable for unattended ambient air sampling

Low noise, size, and weight

- Ideal for indoor air studies

Longer runs + Higher flows = Enhanced sensitivity for measuring low concentrations

Patented* highly accurate isothermal flow control system

Flexible programming options

- Manual three-button programmability using the large built-in keypad
- PC programmability with DataTrac for Leland Legacy Software
 - Create complete running sequences, download sampling history, and generate exposure reports for ISO 9000 or quality programs

Large easy-to-read LCD

- Displays battery status indicator, flow fault, run time data, and sampling parameters

CalChek automatic calibration feature

- Provides hands-free direct communication to a Defender primary standard calibrator

Adjustable datalogging interval from 3 seconds to 8 hours with DataTrac Software

Rugged and convenient case design

- Tough rubber overmolding protects the pump and provides a sure grip
- Anti-static thermoplastic material
- Inlet port with removable protective cover
- Easy-access computer interface and battery charging jack under protective cover

Performance with Sioutas Impactor verified by EPA-ETV

Featured in deployable sampler systems

CE marked

* U.S. Patent No. 5,892,160

† Leland Legacy is not recommended for high back pressure applications such as asbestos clearance sampling.



Quick View

Leland Legacy Sample Pump

Performance Profile	
Flow Rate Accuracy	± 5% of set-point after calibration
Timing Accuracy	1 min/mo at 25 C
Atmospheric Pressure Accuracy	± 3% in Hg
Typical Run Time	Battery: 24 hrs at 9 L/min with Sioutas Impactor (approx. 13 in water back pressure) 24 hrs at 10 L/min with PEM and 37-mm, 2.0 µm PTFE filter 24 hrs at 5 L/min with low-volume PUF tube 24 hrs at 10 L/min with IMPACT Sampler in DPS System 24 hrs at 8 L/min with 8 L/min Respirable PPI Using charger with AC power: Extended run times
Charge Time <i>(varies with battery capacity and level of discharge)</i>	15 hrs with approved charger
Temperature Range	Operating: 32 to 113 F (0 to 45 C) Storage: -4 to 95 F (-20 to 35 C) Charging: 32 to 113 F (0 to 45 C)
Altitude	The pump can apply correction to volumetric flow during sampling for weather-related or altitude variations from the atmospheric pressure established at calibration up to at least 7500 feet above and 5000 feet below sea level.
Timer Display Range	1 to 99999 min (69 days); if run time exceeds 69 days, timer display rolls over
Time Display	Time of day in hours and minutes (12 or 24-hr clock) with AM and PM indicators
Volume Display	Continually updated based on corrected flow rate multiplied by sampling time When volume exceeds 99,999 liters, the pump will continue to run normally but an O_FLO Error will appear on the LCD.
Noise Level	62.5 dBA [‡] - pump without case 52 dBA [‡] - pump housed in noise-reducing case (optional accessory)
Flow Fault	After 15 sec, pump goes into Hold, retains accumulated run time and historical data, and displays fault icon. Auto-restart is attempted every 20 sec up to 10 times (adjustable with DataTrac Software)
Flow Control	An internal isothermal flow sensor measures flow directly and continuously. Sensor readings are used in a flow monitoring algorithm to maintain calibrated volumetric flow. In addition, built-in atmospheric temperature and pressure sensors provide readings to correct volumetric flow for these parameters when they vary from point of calibration.
Weight	36 oz (1 kg)

[‡] Measured 3 feet (1 meter) from pump operating at 10 L/min and 12 inches water back pressure

Ordering Information

Leland Legacy requires 3/8-inch ID tubing.

Pump and Kits	Cat. No.	
Leland Legacy Pump** with Li-Ion battery pack and screwdriver set, <i>requires charger</i>		100-3002
Starter Kit includes pump, single charger, Tygon tubing (3 feet, 1/4-inch ID), and collar clip with cable tie	100-240 V	100-3002-S
Single Pump Kit*** includes Leland Legacy pump and single charger, in a Pelican carry case	100-240 V	100-3002K
5-pack Pump Kit*** includes 5 Leland Legacy pumps, Take Charge 5 Multi-charger, and DataTrac Software, in a deluxe Pelican case	100-240 V	100-3002K5
Single CalChek Kit*** includes items in a single pump kit, a CalChek Communication cable, and a Defender Calibrator with charger	100-240 V	100-3002DFK
5-pack CalChek Kit*** includes items in 5-pack pump kit, a CalChek Communication cable, and a Defender Calibrator with charger	100-240 V	100-3002DFK5
Accessories		
Chargers		
Single	100-240 V	223-241
Take Charge 5 Multi-charger	100-240 V	223-441
CalChek Communication Cable, <i>required for CalChek calibration, included in CalChek kits above</i>	210-502	
Replacement Parts		
Replacement Battery Pack,** Li-Ion <i>Replacing batteries with non-approved battery packs voids any warranty.</i>	P75692	
Replacement Filter/O-ring Set, 5 filters and 1 O-ring	P40021B	
Replacement Inlet Filters, pk/50	P40021A	

** Leland Legacy pumps contain Li-Ion batteries and may be subject to special shipping regulations.

SKC Limited Warranty and Return Policy

SKC products are subject to the SKC Limited Warranty and Return Policy, which provides SKC's sole liability and the buyer's exclusive remedy. To view the complete SKC Limited Warranty and Return Policy, go to <http://www.skccinc.com/warranty.asp>.

Flow Rate (ml/min)
5 to 15 (L/min)
Weight in Ounces (grams)
36 (1000)
Compensation Range (inches water)
Up to 12 at 10 L
Built-in Timer/Clock
Clock
Constant Flow
Yes
Programmable
Yes
PC-compatible
Yes
Multi-tube Sampling
N/A
Flow Fault Feature
Yes
RF/EMI Shielded
Yes
MSHA-approved Models Available
N/A
ATEX Models Available
N/A
CE Marked
Yes
Corrects for Changes in Atmospheric Pressure
Yes
Corrects for Changes in Temperature
Yes
Battery Type
Li-Ion (7.4 V, 12 Ah, 88.8 Wh)
Battery Check
Yes
Tubing
Requires 3/8-inch ID tubing

Recommended Accessories
Chargers
Defender Calibrator Cat. No. 717-510H
Battery Charging Adapter Cat. No. 223-248
CalChek Communication Cable Cat. No. 210-502
Noise-reducing Case
DataTrac for Leland Legacy Software Cat. No. 877-92
Low-volume PUF Tube Holder Cat. No. 224-29P
Filter Holders
Tubing