

# Leland Legacy Sample Pump

MP1620 Rev 2023.02

## Area and Personal High Flows from 5 to 15 L/min

### 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 within specified back pressure range

### 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 or unattended ambient air sampling

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

### Highly accurate internal flow sensor acts as a secondary standard

### Flexible programming options

- Manual three-button programmability using the large built-in keypad
- PC programmability with DataTrac Software for Leland Legacy
  - 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 high flow chek-mate calibrator

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

### Rugged and convenient case design

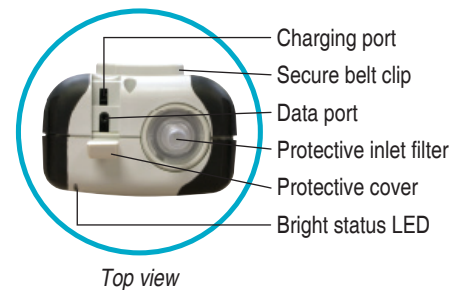
- Tough rubber overmolding protects the pump and provides a sure grip
- Anti-static thermoplastic material
- Inlet port with removable protective cover
- Easy-access computer interface and battery charging jack under protective cover

### Performance with Sioutas Impactor verified by EPA-ETV

### Featured in deployable sampler systems

### CE marked

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



Leland Legacy® is the perfect partner for the Sioutas Impactor

Learn more at [www.skcinc.com!](http://www.skcinc.com!)



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# Leland Legacy Sample Pump

## Quick View

Performance Profile	
Flow Rate Accuracy	± 5% of set-point after calibration to desired flow
Timing Accuracy	1 min/mo at 25 C
Atmospheric Pressure Accuracy	± 0.3 in Hg
Typical Run Time	<b>Battery:</b> 24 hrs at 9 L/min with Sioutas Impactor (approx. 13 in water back pressure) 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  <b>Using charger with AC power:</b> Extended run times
Charge Time <i>(varies with battery capacity and level of discharge)</i>	15 hrs with approved charger
Temperature Range	<b>Operating:</b> 32 to 104 F (0 to 40 C) <b>Storage:</b> -4 to 95 F (-20 to 35 C) <b>Charging:</b> 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 (2286 meters) above and 5000 feet (1524 meters) 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_FIO Error will appear on the LCD.
Noise Level	62.5 dBA <sup>‡</sup> - pump without case 52 dBA <sup>‡</sup> - 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, acting as a secondary standard, 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, 3/8-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 hard-sided carry case	100-240 V	100-3002K
5-pack Pump Kit*** includes 5 Leland Legacy pumps, Take Charge 5 Multi-charger, and DataTrac Software Cable (USB), in a deluxe hard-sided case	100-240 V	100-3002K5
Accessories		
High Flow chek-mate Calibrator, 5 to 30 L/min, includes a 9-volt alkaline battery, requires Pulsation Dampener Cat. No. 375-150 with NIST standard traceable calibration certificate with UK standard traceable calibration certificate <i>Calibrator available with ISO standard traceable calibration certificate. Contact SKC.</i>	375-50300N 375-50300	
Pulsation Dampener, required for use with chek-mate Calibrator Cat. Nos. 375-50300N and 375-50300 for calibration of high flow pumps and CalChek calibration of Leland Legacy pump	375-150	
High Flow chek-mate Kit with High Flow chek-mate Calibrator and Pulsation Dampener Cat. No. 375-150 with NIST standard traceable calibration certificate with ISO standard traceable calibration certificate	375-50300-KN 375-50300-KNS	
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 with chek-mate calibrator</i>	375-200	
Tubing Adapter, adapts 3/8-inch ID tubing to 1/4-inch ID tubing	P31211	
Replacement Parts		
Replacement Battery Pack,** Li-Ion <i>Replacing batteries with non-approved battery packs voids any warranty.</i>	P75692A	
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 are subject to special shipping regulations.

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
Intrinsic Safety	N/A
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, 10.4 Ah, and 77 Wh)
Battery Check	Yes
Tubing	Requires 3/8-inch ID tubing
Recommended Accessories	
Chargers	
Battery Charging Adapter Cat. No. 223-248	
CalChek Communication Cable Cat. No. 375-200	
Noise-reducing Case	
High Flow chek-mate Calibrator Cat. No. 375-50300N or 375-50300	
DataTrac Software Cable, for Leland Legacy, USB; software available as free download from <a href="http://www.skcinc.com">www.skcinc.com</a> Cat. No. 877-92	
Low-volume PUF Tube Holder Cat. No. 224-29P	
Tubing Adapter Cat. No. P31211	
Filter Holders	
Tubing	

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