SKC Leland Legacy

Area or personal high flow sample pump, 5 to 15 L/min

The Leland Legacy gives the high flows and long run times of a vacuum-style pump in a compact, portable, battery-operated sampler. It runs 24 hours on one charge, also unattended. Its internal flow sensor acts as a secondary standard, and CalChek verifies the flow with a high flow chek-mate.



5–15	20 inH_2O	24 h	±5 %	99.4 Wh
Flow range, L/min	Back pressure held at 5 L/min	Run time on one charge	Flow control around the set point	Battery energy, Li-ion

Performance

Flow range	5–15 L/min
Flow control	Set point ±5 %
Flow sensor	Internal flow sensor that acts as a secondary standard
Flow rate verification	CalChek: direct, hands-free link to a high flow chek-mate Verifies one flow point or calibrates across a range of flows
Timing accuracy	1 min/month at 25 °C
Pressure reading accuracy	Atmospheric pressure: ±0.3 inHg
Applications [3]	Impactors, 8 L/min PPI samplers, spore traps, 37 mm filters, low-volume PUF tubes Asthma studies in schools; unattended 24-hour PM10 and PM2.5 ambient air sampling Higher flow respirable dust sampling with PPI samplers

Mechanical

Sound level [2]	Pump without case: 62.5 dBA Pump in the noise-reducing case 224-89: 52 dBA
Case	Tough rubber overmoulding over anti-static thermoplastic
Inlet	For 3/8" ID tubing; protective inlet filter and removable protective cover
Ports	Computer interface and charging jack under a protective cover; belt clip; status LED
Size and weight	8 × 3.9 × 2.6 in (20 × 10 × 7 cm), 36 oz (1 kg)

Electrical and communication

Battery	Removable, rechargeable Li-ion, 7.2 V, 13.8 Ah, 99.4 Wh
Charger	Charger/AC adapter, input 100–240 V AC
Run time [1]	24 hours on one charge; longer while attached to an approved charger
PC software	DataTrac Software for Leland Legacy programs running sequences, downloads the sampling history and generates exposure reports
Data logging	Interval adjustable from 3 s to 8 h with DataTrac Software

Compliance

Conformity	CE, UKCA

Display and operation

Display	Large LCD with battery status indicator and flow fault
Shown on screen	Serial number, software revision, flow rate, volume, temperature, atmospheric pressure, time of day, run time, pump status (Hold, Run, setup)
Control	3 large buttons for manual programming

Typical run time by sampler

Sioutas Impactor	24 h at 9 L/min (approx. 13 inH_2O back pressure)
IMPACT Sampler	24 h at 10 L/min
Low-volume PUF tube	24 h at 5 L/min
DPS Sampler (PM2.5 or PM10)	24 h at 10 L/min
Respirable PPI, 8 L/min model	24 h at 8 L/min

Back pressure held by flow rate

Flow rate, L/min	5	10	15
Back pressure held, inH_2O	20	12	5

Pump and kits

Order code	Description
100-3002	Pump only
Ask Analyt-MTC	Starter pump kit
100-3002K	Single pump kit
100-3002K5	5-pack pump kit

Order from Analyt-MTC with the order codes. The pump alone needs a charger.

Flowmeters and accessories

High flow chek-mate kit, pulsation dampener 375-100, UK traceable certificate	375-50300K
High flow chek-mate kit, pulsation dampener 375-150, NIST traceable certificate	375-50300-KN
High flow chek-mate kit, pulsation dampener 375-150, ISO traceable certificate	375-50300-KNS
CalChek communication cable	375-200
DataTrac software cable	Ask Analyt-MTC
Noise-reducing case	224-89

Notes

1. Run times were measured with a new pump and a new, fully charged battery; pump and battery performance may vary.
2. Measured 3 ft (1 m) from the pump running at 10 L/min against 12 inH_2O back pressure.
3. The Leland Legacy is not recommended for high back pressure applications such as asbestos clearance sampling.

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Sales, service and calibration

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