SKC AirLite

Personal air sampling pump on 3 AA alkaline batteries, 1000 to 3000 mL/min

The AirLite is a small, battery-powered pump for abatement projects, indoor air sampling and emergency response. It holds the set flow as back pressure rises and corrects it for temperature. Three AA alkaline batteries power it, so there is nothing to charge. It is not intrinsically safe and must not be used in hazardous or explosive locations.



1000–3000	5–500	9.5–30+ h	12 oz	30 inH_2O
Compensated flow range, mL/min	Low flow with tube holder, mL/min	Run time on new batteries	Weight with batteries	Back pressure held at 1000 mL/min

Performance

Flow range [1]	Compensated: 1000–3000 mL/min Low flow: 5–500 mL/min with a low flow accessory
Flow control	Holds constant flow to ±5 % of the set point
Back pressure held [2]	1000 mL/min: 30 inH_2O 2000 mL/min: 20 inH_2O 3000 mL/min: 10 inH_2O
Temperature compensation	41–122 °F (5–50 °C)
Protection	Pump stops and an indicator shows on low battery or flow fault

Operating conditions

Operating temperature	32–104 °F (0–40 °C)
Storage temperature	−4 to 113 °F (−20 to 45 °C)
Humidity	0–95 % RH, non-condensing
Outdoor use	Protect the pump from the weather

Mechanical

Size	4.6 × 3 × 1.75 in (11.7 × 7.6 × 4.4 cm), with inlet and belt clip
Weight	12 oz (340 g), with batteries
Case	Plastic, RFI/EMI-shielded
Controls	Flow adjustment, status LED, protective cover, belt clip
Inlet	For 1/4" ID tubing

Electrical and communication

Batteries	3 standard AA alkaline cells, in an easy-access compartment
Run time [3]	9.5 to over 30 h with new batteries, by battery model, flow and back pressure
Rechargeable cells	AA NiMH, 1.2 V, can be used; about half the run time

Compliance

Conformity [4]	CE and UKCA marked; not intrinsically safe

Low flow accessories

Low flow adapter kit	110-500: All-in-One adjustable tube holder and Type A protective tube cover, for one tube
Constant pressure controller (CPC)	224-26-CPC: required for the adjustable low flow tube holders
Adjustable low flow tube holders	Dual: 224-26-02 Tri: 224-26-03 Quad: 224-26-04
Protective covers for sorbent tubes	Type A, 6 mm OD × 70 mm long: 224-29A Type B, 8 mm OD × 110 mm long: 224-29B Type C, 10 mm OD × 150 mm long: 224-29C Type D, 10 mm OD × 220 mm long: 224-29D

Flow ranges

Mode	Flow range, mL/min	Needs
Compensated flow	1000–3000	–
Low flow	5–500	Low flow accessories

Pump and kits

Order code	Contents	Pumps	Sampling accessories
110-100	Pump only	1	–
110-100-T	Pump only, with timer	1	–
110-100K	Basic kit	1	–
110-100K5	Basic kit (5-pack high flow pump kit)	5	–
110-100-TK5	5-pack high flow pump kit, with timer	5	–
Ask Analyt-MTC	5-pack high/low pump kit	5	–
Ask Analyt-MTC	5-pack high/low pump kit, with timer	5	–
110-100KP	Dust sampling kit	1	IOM sampler, 5 cassettes, foams, Calidaptor
110-100K5P	Dust sampling kit	5	5 IOM samplers, 15 cassettes, foams, Calidaptor
110-100KV	Vapour sampling kit	1	Tube holder, constant pressure controller, tube cover, tube breaker
110-100K5V	Vapour sampling kit	5	5 tube holders, 5 controllers, 5 tube covers, tube breaker
110-100KC	Combined kit	1	Dust and vapour accessories as above
110-100K5C	Combined kit	5	Dust and vapour accessories as above, for 5 pumps

Order from Analyt-MTC with the order codes. Pump: 3 AA alkaline batteries, screwdriver set, manual. Kits add tubing for each pump, a carry case and Step-by-Step Guides.

Accessories

chek-mate flowmeter, NIST standard traceable certificate	Ask Analyt-MTC
chek-mate flowmeter, UK standard traceable certificate	375-0550
Filter cassette holder	225-1
Protective nylon pouch	224-902
Waist strap	224-12
Carry case for 1 pump	224-98
Carry case for 5 pumps	224-97B
Hard-sided watertight case for 1 pump	224-901
Screwdriver set (included with the pump)	Ask Analyt-MTC

Notes

1. Low flow: 5–500 mL/min needs a low flow accessory, such as the All-in-One adjustable tube holder. Full back pressure compensation is specified from 1000 to 3000 mL/min.
2. Back pressure values are those the pump holds for at least 8 h of operation.
3. Run time was specified for new batteries; it depends on the battery model, the flow rate and the back pressure of the sampling media.
4. Not intrinsically safe. Do not operate the AirLite in hazardous or explosive locations. Use it only where intrinsic safety is not required.
5. There is also a chek-mate with an ISO standard traceable certificate; ask Analyt‑MTC.

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Sales, service and calibration

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