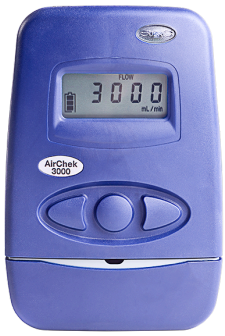
SKC AirChek 3000

Intrinsically safe personal air sampling pump, 5 to 3250 mL/min

The AirChek 3000 is an air sampling pump certified under ATEX, IECEx and UKEX for flammable dusts, gases and mines. Flow rate, run time and delayed start are set on its keypad, or from a PC with the optional DataTrac software. Its case is rated IP64.



1000–3250	5–500	8.7 kPa	±5 %	IP64
Constant flow, mL/min	Low flow with adapter, mL/min	Back pressure at 1000 mL/min	Flow control	Casing IP rating

Performance

Flow range	1000–3250 mL/min, constant flow operation 5–500 mL/min with adapter, constant pressure operation
Flow control	±5 % of set point, constant flow
Flow setting resolution	10 mL/min steps on the keypad
Flow fault	Fault longer than 15 seconds: the pump shuts down into HOLD Restarts every five minutes, up to 10 restarts
Accuracy	Timing: 1 minute per month at 25 °C Atmospheric pressure: ±10 mbar (±0.3 inHg) Temperature: ±5 % of reading

Operating conditions

Temperature	Operating: 0 °C to +40 °C (limited by intrinsic safety certification) Storage and charging: 0 °C to +45 °C
Operating humidity	0–95 % RH, non-condensing
Operating altitude	2285 m (7500 ft) maximum

Mechanical

Size and weight	133 × 90 × 59 mm (H × W × D); 580 g
Casing IP rating	IP64, dust-tight and protected against splashing water; not against water jets or immersion
Particulate trap	Built-in replaceable filter that keeps particles out of the pump mechanism
Tubing	1/4 in ID

Electrical and communication

Battery pack	NiMH rechargeable, 2.0 Ah, 4.8 V
Charging time	16 hours using the 223-260A single charger or the 223-119A five station charger
Mains power	Battery eliminator 223-330B (Euro 2-pin plug) or 223-330C (UK 3-pin plug); certification invalid while fitted, not for hazardous areas
Low battery shutdown	Automatic, before the battery over-discharges; the pump retains the run-time data
PC connectivity	Optional DataTrac USB adapter cable and PC software Timed runs, delayed starts, intermittent sampling; run-time data and history to the PC
DataTrac PC interface port	Maximum input voltage Um = 6 V; SELV or PELV circuit only, e.g. RS232 or USB of a PC

Compliance

Markings	II 1D Ex ia IIIC T120°C Da II 1G Ex ia IIC T4 Ga I M1 Ex ia I Ma Ta = 0 °C to +40 °C; IP64
ATEX	SIRA 11ATEX2121X; Directive 2014/34/EU; EN IEC 60079-0:2018 and EN 60079-11:2012
IECEx	IECEx SIR 11.0055X; IEC 60079-0:2017 and IEC 60079-11:2011
UKEX	CSAE 22UKEX1237X; UK 2016 No. 1107; EN IEC 60079-0:2018 and EN 60079-11:2012
Hazardous areas	Flammable dusts: zones 20, 21, 22; groups IIIA, IIIB, IIIC; T120°C; EPL Da, Db, Dc Gases, vapours, mists: zones 0, 1, 2; groups IIA, IIB, IIC; T1 to T4; EPL Ga, Gb, Gc Mines (firedamp and/or coal dust): group I; EPL Ma, Mb
Safety related device	Not assessed as a safety related device (Directive 2014/34/EU Annex II, clause 1.5)
Marks	CE and UKCA marked
ANZEx variant	For Australia and New Zealand only, not for the EU or UK Its components must not be interchanged with 210-3311 pumps

Pump features

LCD screen	Run-time data, operating and fault modes, battery charge state
Sample hold	Pauses and restarts the pump during a sample without loss of run-time data
Programming	Run time in minutes; at the end the pump shuts down and retains the run-time data Delayed start in hours and minutes Both set on the keypad
Automatic flow adjustment	With the optional chek-mate flowmeter and CalChek cable; adjusts and verifies the flow rate

Spare parts

Inlet	P210301: inlet filter cover / hose nipple P210308: inlet filter and O-ring, 3 of each P40011: inlet filter, pack of 50
Case and battery	P210303: DataTrac PC interface port cover P210304: belt clip and spacer P21030: battery pack, 4.8 V, 2.0 Ah, NiMH
Pump stack	P210305: stack assembly (without motor); P21273: stack gaskets, set of 2 P22417G: pump body; P22417HC: yoke and diaphragm assembly P210315: top valve plate assembly; P210316: bottom valve plate assembly
Tools	P210302: toolkit (2 mm A/F hex screwdriver)
Internal parts	The complete range goes only to the manufacturer's authorised service centres; for a part not listed, ask Analyt-MTC

Safe use

Hazardous locations	Do not charge, connect to the DataTrac port or disconnect the battery pack there Fit the battery pack to the pump only in a clean, dust-free environment Use only SKC approved chargers Non-SKC approved components may invalidate the intrinsic safety certification
Damage, cleaning, sunlight	Do not use a pump damaged in a way that could invalidate intrinsic safety or the IP rating Example: a cracked pump or battery pack enclosure that exposes internal components The LCD window can charge electrostatically if rubbed: clean it with a damp cloth only, above all in zone 0 Do not expose the pump to intense sunlight for long periods
Site suitability	If unsure whether the intrinsic safety rating suits your site, check with your site manager or responsible person before use
Charging socket	Mini-USB type but not a USB port: never connect it to a computer
Sampling care	Never run the pump long term without a tube or filter medium in place Long-term colour change tubes: use a tandem tube holder with trap tube Impingers: fit a trap before the pump inlet; set the flow below 1 L/min first

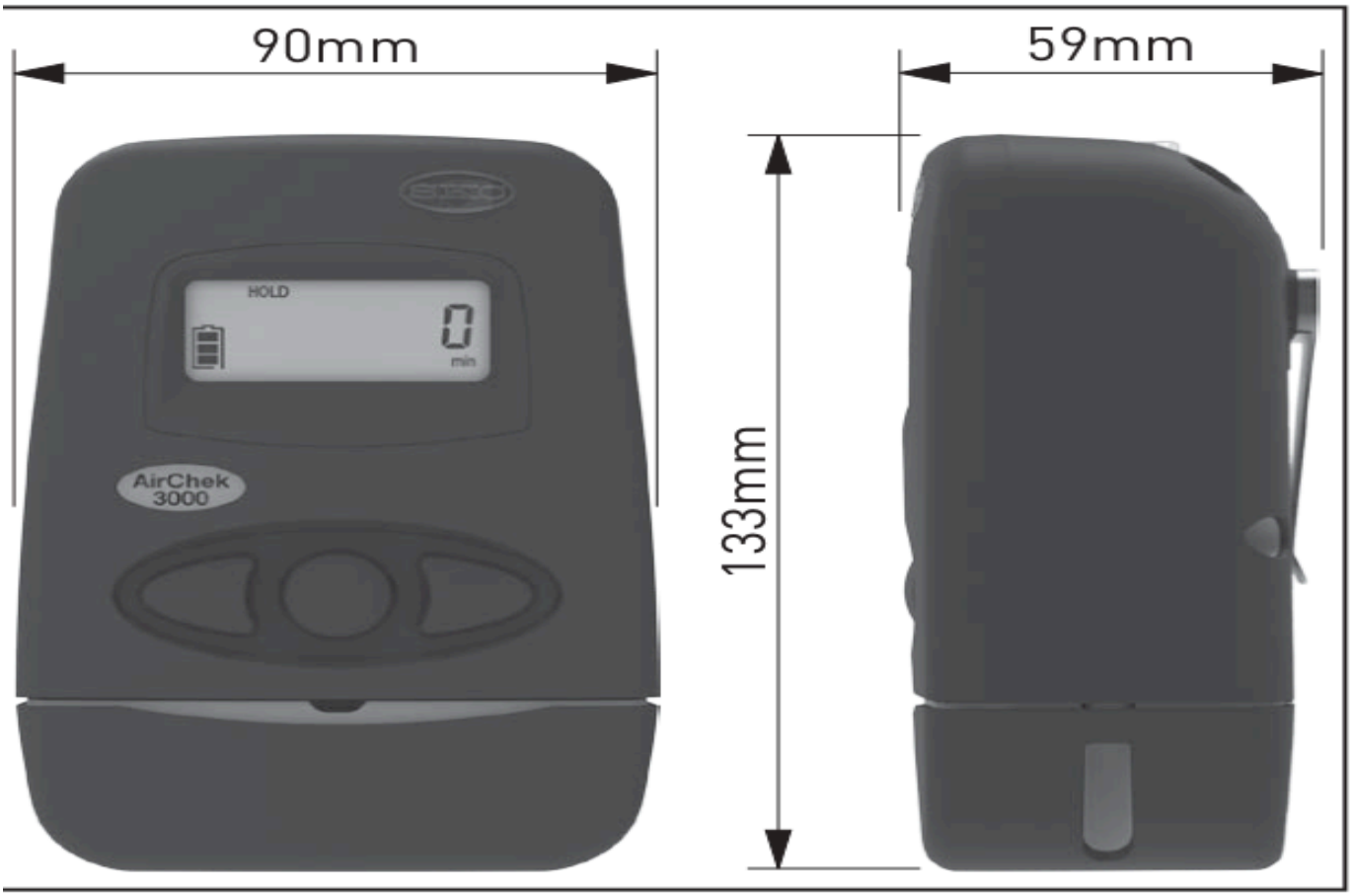
Compensation range

Flow rate (mL/min)	Back pressure (kPa)	Back pressure (inH_2O)
1000	0–8.7	0–35
1500	0–7.5	0–30
2000	0–7.5	0–30
2500	0–6.2	0–25
3000	0–5.0	0–20
3250	0–3.7	0–15

Typical run times, hours

Back pressure (kPa)	Back pressure (inH_2O)	1.0 L/min	1.5 L/min	2.0 L/min	2.5 L/min	3.0 L/min	3.25 L/min
1.2	5	28	24	20	18	16	15
2.5	10	19	17	14	14	13	12
3.7	15	15	14	12	11	11	10
5.0	20	12	11	10	10	9	–
6.2	25	10	10	9	8	–	–
7.5	30	9	9	8	–	–	–
8.7	35	8	–	–	–	–	–

New, fully charged battery; rounded down to the nearest full hour; increasing back pressure from filter loading not taken into account. Pump performance may vary.



Front and side views with the outer dimensions, from the manufacturer's operating instructions.

Pump and kits

Order code	Item	Pumps	Charger	Sampling accessories
210-3311	Pump with NiMH battery pack and toolkit	1	Order separately	–
210-3311K	Basic kit	1	Single	–
210-3311K5	Basic kit	5	Five station	–
210-3311KP	Dust sampling kit	1	Single	IOM sampler, 5 cassettes, foams, Calidaptor
210-3311K5P	Dust sampling kit	5	Five station	5 IOM samplers, 15 cassettes, foams, Calidaptor
210-3311KV	Vapour sampling kit	1	Single	All-in-One tube holder and CPC, type A cover, tube breaker
210-3311K5V	Vapour sampling kit	5	Five station	5 tube holders and CPCs, 5 covers, tube breaker
210-3311KC	Combined sampling kit	1	Single	Dust and vapour accessories as above
210-3311K5C	Combined sampling kit	5	Five station	Dust and vapour accessories as above, for 5 pumps

Order from Analyt-MTC with the order codes. Each kit adds tubing for each pump, a carry case and the Step by Step Guide.

Dust sampling accessories

Order code	Description
225-70A	IOM sampler, plastic, plastic cassette, clip
225-76A	IOM sampler, stainless steel, steel cassette, clip
225-79A	IOM sampler, plastic, stainless steel cassette, clip
225-71A	IOM plastic cassette with cap and clip
225-75A	IOM stainless steel cassette with cap and clip
391-01	Calidaptor flow calibration adapter for IOM
225-772	IOM foam plug, pack of 10

Order code	Description
225-772-50	IOM foam plug, pack of 50
225-69	Cyclone sampler, plastic, plastic cassette for 25 mm filters
225-69-37	Cyclone sampler, plastic, plastic cassette for 37 mm filters
225-62	Cyclone cassette, 25 mm filters, with clip
225-62-37	Cyclone cassette, 37 mm filters, with clip
225-67-10	Filter transport cassette, 25 mm, pack of 10

Gas and vapour sampling accessories

Order code	Description
210-500	Low flow adapter kit: CPC, tube holder, type A cover
224-26-CPC	Constant pressure controller (CPC), 20 inH_2O
224-26-01	Adjustable low flow tube holder, single
224-26-02	Adjustable low flow tube holder, double
224-26-03	Adjustable low flow tube holder, triple
224-26-04	Adjustable low flow tube holder, quadruple
224-29A	Protective cover type A, 6 mm × 70 mm

Order code	Description
224-29B	Protective cover type B, 8 mm × 110 mm
224-29C	Protective cover type C, 10 mm × 150 mm
224-29D	Protective cover type D, 10 mm × 220 mm
224-29P	Protective cover for low volume PUF tubes
224-29V	Tube holder for OVS tube
Ask Analyt-MTC	Tube tip breaker

Key accessories

Single battery charger, 100–240 V, UK/EU/US/AUS plugs	223-260A
Five station battery charger, 100–240 V, UK/EU/US/AUS plugs	223-119A
Battery eliminator, 230 V, EU 2-pin plug	223-330B
Battery eliminator, 230 V, UK 3-pin plug	223-330C
Protective pouch in black	224-88
High visibility protective pouch in red	224-96A
Noise reducing pouch in black	224-96C
chek-mate flowmeter, 20–500 mL/min, ±1 % of reading	375-00205
chek-mate flowmeter, 0.5–5.0 L/min, ±1 % of reading	375-0550
Pulsation dampener, for chek-mate 375-0550	375-100
CalChek communication cable, for chek-mate 375-0550	375-200
DataTrac software package: software, PC adapter and cable	877-91K

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