



AirChek **ESSENTIAL**

Low Price, Simple Operation Sample Pump

No operating manual needed

5 to 5000 ml/min

Just what you need!

The Leader in Sampling Solutions and
Expertise for OEHS Professionals

www.skcinc.com



SCIENCE. SERVING PEOPLE.®



Intuitive touch keypad operation

KEY FEATURES

- **Flows from 5 to 5000 ml/min**
 - 5 to 500 ml/min with low flow holder accessory
 - Multiple-tube sampling with low flow accessories
- **High back pressure compensation**
 - Up to 50 inches water at 2 L/min
- **Li-Ion battery — over 40-hour run times**
- **Corrects flow for changes in temperature and atmospheric pressure**
- **Bright running and status LEDs**
- **Displays elapsed time**
- **Flow fault and auto-restart**
- **Tough no-slip anti-static case**
- **Ultra-quiet**
- **Small and lightweight**
- **Convenient, economical charging cradle**
 - Chain up to 5 cradles
- **Screen protection and security**
 - Protective cover
 - Screen lock-out feature

PERFORMANCE PROFILE

Nominal Flow Range	<ul style="list-style-type: none"> • Constant flow from 1000 to 5000 ml/min (5 to 500 ml/min requires low flow holder)
Nominal Range of Pressure Drop	<ul style="list-style-type: none"> • 5000 ml/min at 20 inches water back pressure • 4000 ml/min at 30 inches water back pressure • 3000 ml/min at 40 inches water back pressure • 2000 ml/min at 50 inches water back pressure • 1000 ml/min at 60 inches water back pressure
Power	<ul style="list-style-type: none"> • Removable rechargeable lithium-ion (Li-Ion) battery 7.4 V, 2.6 Ah, 19.2 Wh or AC using cradle
Operating Time	<ul style="list-style-type: none"> • 40+ hours at 2000 ml/min,* 15+ hours at 5000 ml/min,* Indefinite run from charging cradle
Accuracy	<ul style="list-style-type: none"> • Flow control: ± 5% of set-point • Atmospheric pressure: ± 0.3 in Hg • Temperature: ± 1.0 C
Display/Parameters	<ul style="list-style-type: none"> • B&W display, elapsed sampling time
User Interface	<ul style="list-style-type: none"> • Capacitive touch screen with locking option
Sound Level	<ul style="list-style-type: none"> • Average 51.7 dB at 3-ft (1-m) distance using a 37-mm, 0.8-µm MCE filter cassette
Tubing	<ul style="list-style-type: none"> • Requires ¼-inch ID tubing
Case Material	<ul style="list-style-type: none"> • Polycarbonate: rubberized anti-static overmolding; ingress protection is IP6x-dust tight enclosure
Dimensions/Weight	<ul style="list-style-type: none"> • 4.1 x 3.7 x 2.8 in (10.4 x 9.4 x 7.1 cm), 19.4 oz (550 gm)
Certifications/Markings	<ul style="list-style-type: none"> • Intrinsic safety (SKC Cat. No. 220-3000 operated with SKC Battery Pack P75718) Class I, Groups A, B, C, D; Class II, Groups E, F, G; Class III, T4; Class I, Zone 0, AExia IIC T4 Ga; Exia IIC T4 Ga; -20°C ≤ Ta ≤ 45°C; Ex II 1G Exia IIC T4 Ga; IECEx UL 19.0100, UL22UKEX2351, DEMKO 19ATEX 2288, CE 0539, UKCA 0843 • AirChek Essential is a type P pump for personal sampling of airborne particles and is designed to meet ISO 13137:2022 • RoHS compliant



* Results obtained using a new pump, new fully charged battery, and 37-mm, 0.8-µm MCE filter. Pump and battery performance may vary

ORDERING

Available as Cat. No.

220-3000	AirChek® Essential Pump only
220-3000-S	Starter Pump Kit
220-3000-K	Single High Flow Pump Kit
220-3000-K3D	3-pack High/Low Flow Pump Kit
220-3000-K5	5-pack High Flow Pump Kit

For details and additional kits and accessories, visit www.skcinc.com/touch-pumps.

"Pump only" requires a charging cradle and power supply. We recommend the Lite Charging Cradle and power supply (Cat. Nos. 220-850 and 220-600).

Recommended Flowmeter*

375-0550	chek-mate with UK standard traceable calibration certificate
375-0550N	chek-mate with NIST standard traceable calibration certificate

*Available with ISO standard traceable certificate. Contact SKC for details.

Recommended Accessories

210-500	Low Flow Adapter Kit
224-911	Protective Pouch



Selection Guide

AirChek	AirChek ESSENTIAL	AirChek ESSENTIAL+	AirChek TOUCH	AirChek CONNECT
Intrinsically Safe	•	•	•	•
Operation	Touch keypad	Touch screen	Color touch screen	Touch screen
Programmable			•	•
PC Compatible – Download History			•	•
Bluetooth® Connection with PC and Mobile				•
SmartWave Mobile App				•
Compensates for Changes in Temperature and Atmospheric Pressure	•	•	•	•
Flow Fault/Auto-restart	•	•	•	•
CalChek® Automatic Flow Rate Verification/Calibration Feature			•	