

AirChek Essential

Low Price, Simple Operation Sample



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
- Flow fault with auto-restart
- Displays elapsed time
- Easy touch screen control
- Tough no-slip anti-static case
- Ultra-quiet
- Small and lightweight
- Convenient, economical charging cradle
 - Chain up to 5 cradles
- Screen lock-out feature and protective cover



Intuitive touch keypad operation

CERTIFICATIONS

Intrinsic safety: UL913, CAN/CSA C22.2, ATEX, IECEX, UKEX

Other: CE, UKCA



The popular AirChek® Essential Sampling Pump is the basic pump with touch keypad and intrinsic safety you've been seeking. Choosing the AirChek Essential provides easy operation, long run times, high back pressure compensation, corrections for changes in temperature and atmospheric pressure, bright running LEDs, and economical charging with the new Lite Cradle to get the job done as economically as possible. Just like the rest of the AirChek Touch Series Sampling Pumps - AirChek Essential meets your sampling needs perfectly.

[More information](#)



SCIENCE. SERVING PEOPLE.®

www.skcinc.com | The Leader in Sampling Solutions and Expertise for OEHS Professionals

2 | AirChek Essential

PERFORMANCE PROFILE

Nominal Flow Range	• 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	• Removable rechargeable lithium-ion (Li-Ion) battery 7.4 V, 2.6 Ah, 19.2 Wh or AC using cradle
Operating Time	• 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 C
Display/Parameters	• B&W display, elapsed sampling time
User Interface	• Capacitive touch screen with locking option
Sound Level	• Average 51.7 dB at 3-ft (1-m) distance using a 37-mm, 0.8-µm MCE filter cassette
Case Material	• Polycarbonate; rubberized anti-static overmolding; ingress protection is IP6x-dust tight enclosure
Tubing	• Requires ¼-inch ID tubing
Dimensions/Weight	• 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 Ga; -20°C ≤ Ta ≤ 45°C; Ex II 1G; Exia IIC T4 Ga; IECEx UL 19.0100; UL220KEX2351; 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

"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)

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

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			•	