

# AirChek Essential+ Everything Essential, Plus More!



## 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
  - New economical Lite Cradle charger available
- Screen lock-out feature and protective cover



*Graphic LCD and easy navigation*

## CERTIFICATIONS

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

Other: CE, UKCA



The SKC AirChek® Essential+ is an on/off-style sampling pump with no-tool flow rate verification and the easiest touch screen operation available. When you choose AirChek Essential+ you get long run times, high back pressure compensation, corrections for changes in temperature and atmospheric pressure, bright running LEDs, economical charging with the new Lite Cradle, and a touch screen associated with higher model pumps. AirChek Essential+ puts the PLUS in easy operation and value. Just like the rest of the AirChek Touch Series Sampling Pumps - AirChek Essential+ meets your sampling needs perfectly.

[More information](#)



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## PERFORMANCE PROFILE

<b>Nominal Flow Range</b>	• Constant flow from 1000 to 5000 ml/min (5 to 500 ml/min requires low flow holder)
<b>Nominal Range of Pressure Drop</b>	<ul style="list-style-type: none"> <li>• 5000 ml/min at 20 inches water back pressure</li> <li>• 4000 ml/min at 30 inches water back pressure</li> <li>• 3000 ml/min at 40 inches water back pressure</li> <li>• 2000 ml/min at 50 inches water back pressure</li> <li>• 1000 ml/min at 60 inches water back pressure</li> </ul>
<b>Power</b>	• Removable rechargeable lithium-ion (Li-Ion) battery 7.4 V, 2.6 Ah, 19.2 Wh or AC using cradle
<b>Operating Time</b>	• 40+ hours at 2000 ml/min, * 15+ hours at 5000 ml/min,* indefinite run from charging cradle
<b>Accuracy</b>	<ul style="list-style-type: none"> <li>• Flow control: ± 5% of set point</li> <li>• Atmospheric pressure: ± 0.3 in Hg</li> <li>• Temperature: ± 1 C</li> </ul>
<b>Display/Parameters</b>	• High-contrast backlit LCD/battery status with elapsed time
<b>User Interface</b>	• Eight-area capacitive touch screen with auto lock option
<b>Sound Level</b>	• Average 51.7 dB at 3-ft (1-m) distance using a 37-mm, 0.8-µm MCE filter cassette
<b>Case Material</b>	• Polycarbonate; rubberized anti-static overmolding; ingress protection is IP6x-dust tight enclosure
<b>Tubing</b>	• Requires ¼-inch ID tubing
<b>Dimensions/Weight</b>	• 4.1 x 3.7 x 2.8 in (10.4 x 9.4 x 7.1 cm), 19.4 oz (550 gm)
<b>Certifications/Markings</b>	<ul style="list-style-type: none"> <li>• Intrinsic safety (SKC Cat. No. 220-3100 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; IECEx UL 19.0100; UL22UKEX2351; DEMKO 19ATEX 2288; CE 0539; UKCA 0843</li> <li>• AirChek Essential+ is a type P pump for personal sampling of airborne particles and is designed to meet ISO 13137:2022</li> <li>• RoHS compliant</li> </ul>



\*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.

220-3100	AirChek Essential+ Pump Only
220-3100-S	Starter Pump Kit
220-3100-K	Single High Flow Pump Kit
220-3100-K3D	3-pack High/Low Flow Pump Kit
220-3100-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](http://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 <b>ESSENTIAL</b>	AirChek <b>ESSENTIAL+</b>	AirChek <b>TOUCH</b>	AirChek <b>CONNECT</b>
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			•	