



# 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](http://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

<b>Flow Range</b>	<ul style="list-style-type: none"> <li>• Constant flow from 1000 to 5000 ml/min (5 to 500 ml/min requires low flow holder)</li> </ul>
<b>Compensation Range</b> (back pressure capability)	<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>	<ul style="list-style-type: none"> <li>• Removable rechargeable lithium-ion (Li-Ion), 7.4 V, 2.6 Ah, 19.2 Wh or AC using cradle</li> </ul>
<b>Run Time</b>	<ul style="list-style-type: none"> <li>• 40+ hours at 2000 ml/min,* 15+ hours at 5000 ml/min,* Indefinite run from charging cradle</li> </ul>
<b>Accuracy</b>	<ul style="list-style-type: none"> <li>• Flow control: ± 5% of set-point after flow rate verification to desired flow</li> <li>• Atmospheric pressure: ± 0.3 in Hg</li> <li>• Temperature: ± 1.0 C</li> </ul>
<b>Display/Parameters</b>	<ul style="list-style-type: none"> <li>• B&amp;W display, elapsed sampling time</li> </ul>
<b>User Interface</b>	<ul style="list-style-type: none"> <li>• Capacitive touch screen with locking option</li> </ul>
<b>Sound Level</b>	<ul style="list-style-type: none"> <li>• Average 51.7 dB at 3-ft (1-m) distance using a 37-mm, 0.8-µm MCE filter cassette</li> </ul>
<b>Tubing</b>	<ul style="list-style-type: none"> <li>• Requires ¼-inch ID tubing</li> </ul>
<b>Dimensions/Weight</b>	<ul style="list-style-type: none"> <li>• 4.1 x 3.7 x 2.8 in (10.4 x 9.4 x 7.1 cm), 19.4 oz (550 gm)</li> </ul>
<b>Certifications/Markings</b>	<ul style="list-style-type: none"> <li>• 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, UKCA 0843, DEMKO 19ATEX 2288, CE 0539</li> <li>• Designed to meet ISO 13137:2022</li> <li>• RoHS compliant</li> </ul>



\* Tested using 37-mm, 0.8-µm MCE filter with new pump and battery. Pump 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).

### 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

For details and additional kits and accessories, visit [www.skcinc.com/touch-pumps](http://www.skcinc.com/touch-pumps).

### 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			•	