



AirChek ESSENTIAL+

Everything Essential, Plus More!

5 to 5000 ml/min

Simple and intuitive—on/off pump, no calibration adjustment tools or manual needed

Graphic display and touch screen navigation

Lower cost

The essentials for simple, accurate air sampling



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Graphic LCD and easy navigation buttons

KEY FEATURES

- **Easy touch screen navigation – no guessing**
- **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
- **Corrects flow for changes in temperature and atmospheric pressure**
- **Li-Ion battery — over 40-hour run times**
- **Bright running and status LEDs**
- **Displays elapsed time and battery status**
- **Flow fault and auto-restart**
- **Tough no-slip anti-static case**
- **Small, lightweight, and ultra-quiet**
- **Convenient charging cradle**
 - Chain up to 5 cradles
- **Screen protection and security**
 - Protective cover
 - Screen lock-out feature

PERFORMANCE PROFILE

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)
Compensation Range (back pressure capability)	<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), 7.4 V, 2.6 Ah, 19.2 Wh or AC using cradle
Run 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 after calibration to desired flow • Atmospheric pressure: ± 0.3 inHg • Temperature: ± 1.0 C
Display/Parameters	<ul style="list-style-type: none"> • High-contrast backlit LCD/battery status and elapsed run time
User Interface	<ul style="list-style-type: none"> • Eight-area capacitive touch screen with auto lock 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
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. 220-3100 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; Exia IIC T4 Ga; IECEx UL 19.0100, UL220UKEX2351, UKCA 0843, DEMKO 19ATEX 2288, CE 0539 • Designed to meet ISO 13137:2022 • RoHS compliant



* Tested using 37-mm, 0.8-µm MCE filter with new pump and battery. Pump performance may vary.

ORDERING

Available as Cat. No.

220-3100 AirChek® Essential+ Pump only

Requires charging cradle and power supply (Cat. Nos. 220-800 and 220-600). See more at www.skcinc.com. Contact your SKC representative for information on AirChek Essential+ Kits.

Recommended Calibrator†

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

375-0550 chek-mate with UK 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 ordering details and additional accessories, visit www.skcinc.com.

Quick Selection Guide

AirChek	AirChek ESSENTIAL+	AirChek TOUCH	AirChek CONNECT
Intrinsically Safe	•	•	•
Operation	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	•	•	•
Automatic CalChek® Calibration		•	

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