



## AirChek Essential<sup>+</sup>

- 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

## PERFORMANCE PROFILE

Flow Range	<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>
Compensation Range (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>
Power	<ul style="list-style-type: none"> <li>Removable rechargeable lithium-ion (Li-Ion) at 7.4 V, 2.6 Ah, 19.2 Wh or AC using cradle</li> </ul>
Run Time	<ul style="list-style-type: none"> <li>40+ hours at 2000 ml/min,* 15+ hours</li> </ul>
Accuracy Display/Parameters	<ul style="list-style-type: none"> <li>5000 ml/min,* Indefinite run from charging cradle</li> <li>Flow control: <math>\pm 5\%</math> of set-point after calibration to desired flow</li> <li>Atmospheric pressure: <math>\pm 0.3</math> inHg</li> <li>Temperature: <math>\pm 1.0</math> C</li> </ul>
User Interface	<ul style="list-style-type: none"> <li>High-contrast backlit LCD/battery status and elapsed run time</li> </ul>
Sound Level	<ul style="list-style-type: none"> <li>Eight-area capacitive touch screen with auto lock option</li> </ul>
Tubing	<ul style="list-style-type: none"> <li>Average 51.7 dB at 3-ft (1-m) distance using a 37-mm, 0.8-<math>\mu</math>m MCE filter cassette</li> <li>Requires 1/4-inch ID tubing</li> </ul>
Dimensions/Weight	<ul style="list-style-type: none"> <li>10.4 x 9.4 x 7.1 cm, (4.1 x 3.7 x 2.8 in) 550 gm (19.4 oz)</li> </ul>
Certifications/Markings	<p>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 <math>\leq</math> Ta <math>\leq</math> 45°C Ex II 1G; Exia IIC T4 Ga; IECEx UL 19.0100, UL22UKEX2351, UKCA 0843, DEMKO 19ATEX 2288, CE 0539</p> <p>Designed to meet ISO 13137:2022</p> <p>RoHS compliant</p>

## 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



## ORDERING

Description	Part No:
AirChek® Essential+ Pump only.	220-3100
Charging Cable	220-800
Power Supply	220-600
Recommended Accessories	Part No:
chek-mate Calibrator (UK standard traceable calibration certificate)	375-0550
Low Flow Adaptor Kit	210-500
Protective Pouch	224-911