## AirChek Essential Low Price, Simple Operation Sample



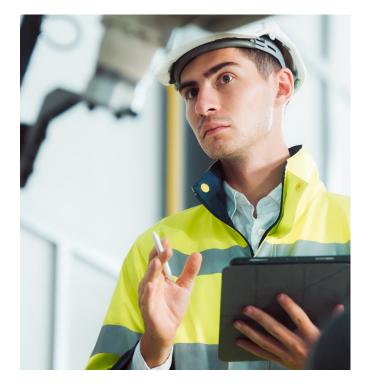
## **KEY FEATURES**

- 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





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.





# 2 | AirChek Essential

## PERFORMANCE PROFILE

| New test Flags Dages    |   |
|-------------------------|---|
| Nominal Flow Range      | • Constant flow from 1000 to 5000 ml/min (5 to 500 ml/min requires low flow holder)                         |
| Nominal Range of        | • 5000 ml/min at 20 inches water back pressure  |
| Pressure Drop           | 4000 ml/min at 30 inches water back pressure  |
|                         | <ul> <li>3000 ml/min at 40 inches water back pressure</li> </ul>  |
|                         | <ul> <li>2000 ml/min at 50 inches water back pressure</li> </ul>  |
|                         | • 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                | • Flow control: $\pm$ 5% of set point   |
|                         | • Atmospheric pressure: $\pm 0.3$ in Hg   |
|                         | • Temperature: <u>+</u> 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> <li>Intrinsic safety (SKC Cat. No. 220-3000 operated with SKC Battery Pack P75718) Class I,</li> </ul> |
| -                       | 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; UL22UKEX2351; 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   |
| LISTED                  | RoHS compliant  |
| E62011                  |   |
|                         |   |

\*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.

220-3000AirChek Essential Pump Only220-3000-SStarter Pump Kit220-3000-KSingle High Flow Pump Kit220-3000-K3D3-pack High/Low Flow Pump Kit220-3000-K55-pack High Flow Pump Kit

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

"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**<sup>+</sup>

| 375-0550   | chek-mate with UK standard traceable calibration certificate   |  |  |  |
|--|--|--|--|--|
| 375-0550N  | chek-mate with NIST standard traceable calibration certificate |  |  |  |
| <sup>*</sup> 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 <sup>*</sup> Connection with PC and Mobile                          |                   |                    |                    | •               |
| SmartWave Mobile App  |                   |                    |                    | •               |
| Compensates for Changes in Temperature and Atmospheric Pressure               | •                 | •                  | •                  | •               |
| Flow Fault/Auto-restart   | •                 | •                  | •                  | •               |
| CalChek <sup>*</sup> Automatic Flow Rate Verification/<br>Calibration Feature |                   |                    | •                  |                 |