

# AirChek 52 Sample Pump

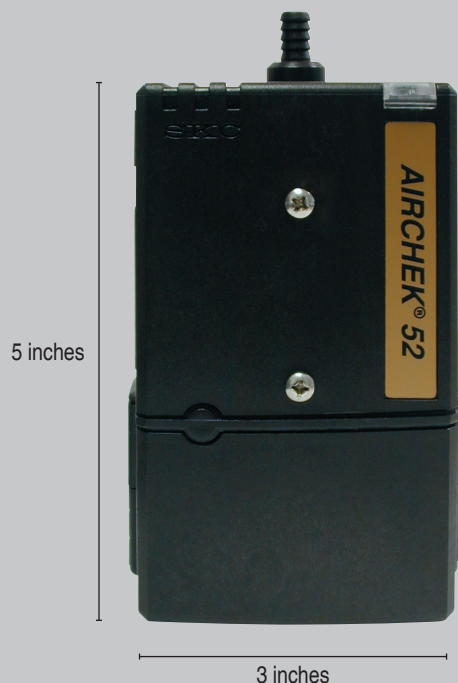
**Rugged, Simple, and Reliable**

**Flows: 5 to 3000 ml/min**

## Certifications

**Intrinsic safety:** UL913, CAN/CSA C22.2  
ATEX models available; contact SKC.

**Other:** CE, UKCA



Top view



AirChek 52 in low flow train



### Wide flow range

- Constant high flows from 1000 to 3000 ml/min
- Low flows from 5 to 500 ml/min with All-in-One adjustable tube holder with built-in CPC

### Full-shift run times

- Provides 12+ hours at 2000 ml/min, 25 inches water back pressure

### Simple design

- Impact-resistant case is easy to clean and decontaminate
- Easy On/Off button and flow control
- Quick-change battery pack mounted on bottom of pump

### Small, compact, and lightweight

- Only 20 ounces (567 grams)!
- 5 x 3 x 1.75 inches (12.7 x 7.6 x 4.4 cm)

### Intrinsically safe and RFI/EMI shielded

- UL Listed for intrinsic safety
- Protected from EMI and RFI (27 to 1000 MHz)
- CE marked
- Model that meets ATEX Directive 94/9/EC available

### Highly accurate display

- Digital time display tracks sample time in minutes up to 99,999 minutes
- Indicates low battery and flow fault without losing sample run time
- Attempts auto-restart up to 5 times from flow fault

### Multiple-tube sampling saves time and uses fewer pumps

- Use multi-tube sampling accessories to sample with up to four sorbent tubes simultaneously, each at the same or a different flow rate from 5 to 500 ml/min (*dependent on back pressure*)

### Flow fault protects sample integrity

- If pump is unable to compensate for > 15 seconds, a flow fault icon appears on the LCD, the pump shuts down, and run time is retained

SCIENCE.  
SERVING PEOPLE.



## AirChek 52 Sample Pump

### Performance Profile

<b>Flow Control Accuracy</b>	± 5% of set-point after calibration
<b>Typical Run Time</b>	<b>Battery Pack:</b> 12+ hrs at 2000 ml/min and up to 25 inches water back pressure; dependent on sample media used <b>Battery Eliminator:</b> pump provides extended runs
<b>Charge Time</b> (varies with battery capacity and level of discharge)	6 to 8.5 hrs using PowerFlex charger
<b>Temperature Range</b>	<b>Operating:</b> 32 to 104 F (0 to 40 C) <b>Storage:</b> -4 to 113 F (-20 to 45 C) <b>Charging:</b> 50 to 113 F (10 to 45 C)
<b>Display</b>	LCD always remains on. Displays elapsed pump run time in minutes up to 99,999 This display resets when pump is started. <b>Note:</b> Older pump models display elapsed time up to three digits (999) and then roll back to zero.
<b>Noise Level</b>	62.5 dBA* - pump without case 55 dBA* - pump housed in noise-reducing case (optional accessory)
<b>Flow Fault</b>	After 15 sec, pump stops; LCD remains on to display elapsed time and flow fault icon. Auto-restart is attempted up to 5 times. Elapsed time information will be lost on restart.
<b>Low Battery Fault</b>	LCD displays low battery icon and pump shuts down. LCD remains on.
<b>Weight</b>	20 oz (567 gm)

\* Measured 3 feet (1 meter) distance from pump operating at 2 L/min with a 37-mm, 0.8-µm MCE filter cassette

### Ordering Information

AirChek 52 Pumps require 1/4-inch ID tubing.

Pump and Single Kit		Cat. No.
<b>AirChek 52 Sample Pump</b> includes NiMH battery pack and screwdriver set, <i>requires charger</i>		<b>224-52</b>
<b>Starter Kit</b> includes pump as described above, single PowerFlex charger with cable, Tygon tubing (3 feet, 1/4-inch ID), and collar clip with cable tie	<b>100-240 V</b>	<b>224-52-S</b>
<b>Single High Flow Sampling</b> includes pump as described above, single PowerFlex charger with cable, filter cassette holder, screwdriver set, and soft-sided nylon carry case†	<b>100-240 V</b>	<b>224-52K</b>
<b>5-pack Pump Kits</b>		
<b>High Flow Sampling</b> includes 5 each: pumps as described above, filter cassette holders, and screwdriver sets and one 5-station PowerFlex charger with 5 cables, in a hard-sided case	<b>100-240 V</b>	<b>224-52K5</b>
<b>Low and High Flow Sampling</b> includes 5 each: pumps as described above, filter cassette holders, screwdriver sets, All-in-One adjustable tube holders, and Type A protective tube covers and one 5-station PowerFlex charger with 5 cables, in a hard-sided case	<b>100-240 V</b>	<b>224-52K5D</b>
<b>Accessories</b>		
<b>Low Flow Adapter Kit (5 to 500 ml/min)</b> includes All-in-One adjustable tube holder and Type A protective tube cover		<b>210-500</b>
<b>Battery Eliminator</b> , connects pump to line power for extended sampling	<b>115 V</b>	<b>223-300</b>
<b>Replacement Battery Pack†</b>	<b>NiMH</b>	<b>P78011AMH†</b>
<b>Kit Cases,</b>		
<b>Single</b> , Nylon with shoulder strap		<b>224-903</b>
<b>Single</b> , hard-sided		<b>224-901</b>
<b>5-pack</b> , hard-sided, on wheels for easy transport		<b>224-907</b>
<b>5-pack</b> , hard-sided, deluxe, on wheels for easy transport		<b>224-910</b>

† Replacing batteries with non-approved battery packs voids any warranty and UL Listing for intrinsic safety.

‡ Single pump kit is also available in hard-sided case. Contact SKC.

## Quick View

<b>Flow Rate (ml/min)</b>	
5 to 3000	
<b>Weight in Ounces (grams)</b>	
20 (567)	
<b>Compensation Range (inches water)</b>	
Up to 25 at 2 L	
<b>Built-in Timer/Clock</b>	
Timer	
<b>Constant Flow</b>	
Yes	
<b>Programmable</b>	
N/A	
<b>PC-compatible</b>	
N/A	
<b>Multi-tube Sampling</b>	
Yes	
<b>Flow Fault Feature</b>	
Yes	
<b>RF/EMI Shielded</b>	
Yes	
<b>Intrinsically Safe — UL Listed</b>	
Yes	
<b>MSHA-approved Models Available</b>	
N/A	
<b>ATEX Models Available</b>	
Yes	
<b>CE Marked</b>	
Yes	
<b>Corrects for Changes in Atmospheric Pressure</b>	
N/A	
<b>Corrects for Changes in Temperature</b>	
N/A	
<b>Battery Type</b>	
NiMH (4.8 V, 3.3 Ah)	
<b>Battery Check</b>	
Yes	
<b>Tubing</b>	
<i>Requires 1/4-inch ID tubing</i>	
<b>Recommended Accessories</b>	
Chargers	
Battery Eliminator	
Low Flow Kit Cat. No. 210-500	
Adjustable Tube Holders	
Filter Holders	
Tubing	
Cases/Pouches	