

# AirChek 2000 Sample Pump

**PC Compatible for Easy Scheduling and Record Keeping**

**Flows: 5 to 3250 ml/min**



Certifications		
 US LISTED intrinsically safe		ATEX and IECEx certified model available; contact SKC



AirChek® 2000 in CalChek calibration train

◎ **Wide 5 to 3250 ml/min flow range for multiple applications**

- Low flows from 5 to 500 ml/min with low flow accessories

◎ **Flexible operation**

- Operate from the large 3-button keypad on the front of the pump
- Combine with a PC and DataTrac 2000 Software to operate pump from PC or program for multiple sample schedules

◎ **Patented\* isothermal flow control system**

- Accurately and directly measures flow and acts as a secondary standard to maintain set flow
- Sensors automatically correct for changes in temperature and atmospheric pressure

◎ **12+ hour run times with new NiMH battery**

◎ **Continuous sample volume calculations**

- Flow rate, run time, volume, and flow fault are continuously recorded for accurate sample recording

◎ **Battery status display**

- Full, mid, low charge and low battery fault

◎ **Compact and lightweight**

- Only 22 ounces (624 grams)!

◎ **Rugged impact-resistant case**

- Protected from EMI and RFI
- CE marked

◎ **Large easy-to-read LCD**

◎ **Save time and pumps with multiple-tube sampling**

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

◎ **Protective features ensure safety and sample integrity**

- Covers protect charge and data ports
- UL Listed for intrinsic safety
- Auto shut-off at low battery
- Automatic flow fault shutdown and restart with data retention

◎ **CalChek automatic hands-free calibration**

- Combine with a Defender primary standard calibrator and CalChek Communication Cable for single-point or multiple-point calibration
- Highly accurate, fast, and easy
- Partner with DataTrac 2000 Software for complete documentation of calibration

◎ **DataTrac 2000 Software**

- Pump operation/programming
- Pump history download
- Data import into software
- Worker exposure profiles for complete reporting
- Documented calibration with CalChek

\* U.S. Patent No. 5,892,160



## Quick View

### AirChek 2000 Sample Pump

Performance Profile	
Flow Rate Accuracy	± 5% of set-point after calibration
Timing Accuracy	1 min/mo at 25 C
Atmospheric Pressure Accuracy	± 0.3 in Hg
Typical Run Time	<b>Battery Pack:</b> 12 hrs at 2000 ml/min and up to 30 inches water back pressure; dependent on sample media used <b>Battery Eliminator:</b> pump provides extended runs
Charge Time <i>(varies with battery capacity and level of discharge)</i>	6 to 8.5 hrs using PowerFlex charger
Temperature Range	<b>Operating:</b> 32 to 113 F (0 to 45 C) <b>Storage:</b> -4 to 113 F (-20 to 45 C) <b>Charging:</b> 50 to 113 F (10 to 45 C)
Altitude	The pump can apply correction to volumetric flow during sampling for weather-related or altitude variations from the atmospheric pressure established at calibration up to at least 7500 feet above and 5000 feet below sea level.
Time Display	Time of day in hrs and min (12 or 24-hr clock) with AM and PM indicators
Volume Display	Continually updated based on corrected flow rate multiplied by sampling time
Sampling Time Setting	Pump can be set up to 999 min from its keypad or up to 30 days (43,200 min) from a PC using DataTrac 2000 Software. If run time is longer than 9999 min (6.8 days), display will roll over to 1.
Flow Fault	After 15 sec, pump goes into Hold, retains accumulated run time display, and displays fault icon. After 5 min in fault, auto-restart is attempted every 5 minutes up to 10 times.
Flow Control	An internal isothermal flow sensor measures flow directly and continuously. Sensor readings are used in a flow monitoring algorithm to maintain calibrated volumetric flow. In addition, built-in atmospheric temperature and pressure sensors provide readings to correct volumetric flow for these parameters when they vary from point of calibration.

### Ordering Information

AirChek 2000 Pumps require 1/4-inch ID tubing.

Pump and Kits		Cat. No.
AirChek 2000 Pump with NiMH battery pack and screwdriver set, <i>requires charger</i>		210-2002
<b>AirChek 2000 Pump Kits</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	100-240 V	210-2002-S
<b>Single High Flow Sampling</b> includes pump as described above, single PowerFlex charger with cable, filter cassette holder, and soft-side nylon carry case†	100-240 V	210-2002K
<b>5-pack High Flow Sampling</b> includes 5 pumps as described above and filter cassette holders and one 5-station PowerFlex charger with 5 cables, in a Pelican case	100-240 V	210-2002K5
<b>5-pack High and Low Flow Sampling</b> includes the above items, 5 adjustable low flow holders, 5 constant pressure controllers, and 5 Type A protective tube covers	100-240 V	210-2002K5D
<b>CalChek Pump Kits</b>		
<b>Single CalChek Kit (High Flow)</b> includes items in Single High Flow Kit, CalChek Communication cable, Defender calibrator with charger, and Pelican case	100-240 V	210-2DF1H
<b>5-pack CalChek Kit (High Flow)</b> includes items in 5-pack High Flow Kit, a CalChek Communication cable, and a Defender calibrator with charger	100-240 V	210-2DF5
<b>Replacement Parts and Accessories</b>		
<b>Battery Eliminator</b> , connects pump to line power for extended sampling	115 V 230 V	223-320 223-320B
<b>CalChek Communication Cable</b> , <i>required for CalChek calibration, included in CalChek kits above</i>		210-502
<b>Low Flow (5 to 500 ml/min) Adapter Kit</b> includes constant pressure controller, single adjustable low flow holder, and Type A tube cover		210-500
<b>Replacement Battery Pack</b>	NiMH NiCad	P20136MH** P20136**

\*\* Replacing batteries with non-approved battery packs voids any warranty and UL listing for intrinsic safety.

† Single pump kit is available in hard-sided Pelican case. Contact SKC.

### SKC Limited Warranty and Return Policy

SKC products are subject to the SKC Limited Warranty and Return Policy, which provides SKC's sole liability and the buyer's exclusive remedy. To view the complete SKC Limited Warranty and Return Policy, go to <http://www.skcinc.com/warranty.asp>.



<b>Flow Rate (ml/min)</b>	5 to 3250
<b>Weight in Ounces (grams)</b>	22 (624)
<b>Compensation Range (inches water)</b>	Up to 30 at 2 L
<b>Built-in Timer/Clock</b>	Clock
<b>Constant Flow</b>	Yes
<b>Programmable</b>	Yes
<b>PC-compatible</b>	Yes
<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>	Cat. No. 210-3311
<b>ANZEx Models Available</b>	Cat. No. 210-3311AZ
<b>CE Marked</b>	Yes
<b>Corrects for Changes in Atmospheric Pressure</b>	Yes
<b>Corrects for Changes in Temperature</b>	Yes
<b>Battery Type</b>	NiMH (4.8 V, 3.5 Ah)
<b>Battery Check</b>	Yes
<b>Tubing</b>	Requires 1/4-inch ID tubing

Recommended Accessories	
Chargers	
Battery Eliminator	
Defender Calibrator	Cat. No. 717-510M
CalChek Communication Cable	Cat. No. 210-502
DataTrac 2000 Software	Cat. No. 877-91
Low Flow Adapter Kit	Cat. No. 210-500
Adjustable Low Flow Tube Holders	
Filter Holders	
Tubing	
Cases/Pouches	