

Air Sampling



SKC Pocket Pump

Small and lightweight, the Pocket Pump fits easily into a shirt pocket. It operates in either constant flow mode for single sorbent tube applications, or constant pressure mode for multiple tube sampling, with flows from 20 to 225 ml/min. A security code prevents tampering to maintain sample validity.



SKC AirChek 2000

The AirChek 2000 allows the user to programme a desired flow rate from 5 to 3250 ml/min with an accuracy of $\pm 5\%$ using the three button keypad or a PC with optional software. The flow setting is automatically maintained by direct flow control system using built-in sensors that compensate for differences in temperature and atmospheric pressure during sampling.



SKC AirChek 52

Small, lightweight and economical, the AirChek52 is designed for rugged industrial use at flows from 5 to 3000ml/min. Ideal for on-worker applications, it is suitable for short-term or full-shift sampling with sorbent tubes, impingers, size selective samplers or filter cassettes.



SKC AirLite

AirLite is a simple solution when a sample pump is needed for abatement projects, indoor air sampling and emergency response in environments that do not require intrinsic safety approvals. Powered by economical AA alkaline batteries, AirLite provides run times greater than 10 hours in the 5 to 3000ml/min flow range with full back pressure compensation.



Universal XR Samplers

The SKC Universal range offers constant flow pumps suited for a broad range of applications. With an operating range of 5 to 5000 ml/min these pumps, designed for on-worker and fenceline applications, are ideal for industrial hygiene studies as well as environmental testing.



Leland Legacy Pump

Leland Legacy provides the high flows up to 15L/min and long run times of a vacuum-style pump in a compact, portable and battery operated sampler. Longer runs at higher flows provide more sample for the enhanced sensitivity required for measuring low concentrations, particularly in indoor air environments.



AirChek XR5000

AirChek XR5000 provides the constant flows needed for industrial hygiene methods and specialty high-flow applications. It can sample with up to four sample tubes simultaneously, each at different flow rates with the low flow adapter kit. Options include a Li-Ion battery for long run times. Available 2007.



PowerFlex Chargers

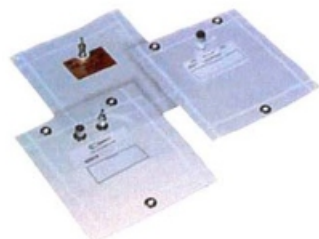
The PowerFlex battery charging system can be used with all SKC personal sample pumps that use a NiCad or NiMH battery. Up to five different models can be charged simultaneously on the PowerFlex five-station charger. Reflex charging minimises battery damage and maximises battery life.

Pump Guide

	Pocket Pump	AirChek 2000	AirChek 52	AirLite	Universal XR Samplers	Leland Legacy	AirChek XR5000
Flow Ranges (ml/min)	20 - 225	5 - 3250*	5 - 3000*	5 - 3000*	5 - 5000*	5 to 15 (L/min)	5 to 5000*
Back Pressure (inches water)	20 at 200ml	30 at 2L	25 at 2L	20 at 2L	40 at 2L	12 at 10L	65 at 2L 30 at 4L

*5 to 500ml/min requires adapter accessory

Air Sampling Accessories



Sample Bags

FlexFilm sample bags are made from SKC proprietary material ideally suited for collecting air samples. When FlexFilm is combined with the SKC patented lightweight polypropylene bag fitting, the result is a sample bag with the lowest background levels, lowest price and greatest ease of use.



Filters

SKC offers a wide range of filters to meet a variety of methods and specifications. As filter cassettes are small and lightweight, they allow convenient personal sampling of reactive compounds. A range of coated filters makes sampling easier and safer as there are no liquids to evaporate or spill and no glass to break.



Sorbent Tubes

Advanced sorbent technology used in SKC tubes ensures optimum sampling and reliable results. SKC sorbent tubes offer desorption efficiencies and tube backup sections to detect breakthrough and provide an indication of sample validity. A wide selection of tubes are available for sampling hundreds of chemicals.



PUF Tubes

PUF tubes contain polyurethane foam (PUF) or PUF/sorbent combinations. Low-volume tubes are suitable for indoor and ambient air sampling methods for pesticides in homes, public buildings and offices. High-volume tubes are designed for high flow sampling of organochlorine pesticides, polychlorinated biphenyls and polyaromatic hydrocarbons in ambient air.



Size Selective Samplers

SKC has a range of size-selective sampling devices to meet various applications for inhalable, thoracic and respirable dust collection. Designed to meet sampling criteria for particulate matter and inhalable dusts as per AS3640 -2004 SKC samplers measure a worker's exposure to airborne particulates.



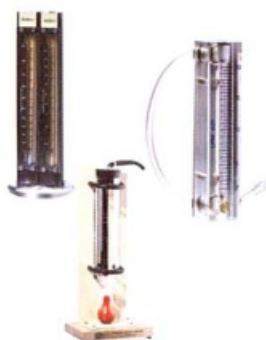
Passive Samplers

SKC passive samplers are ready to use and provide a reliable and economical method for air sampling. Available for personal and area sampling SKC offers samplers for a wide variety of chemical hazards including VOCs, formaldehyde, ethylene oxide and inorganic mercury.



DC-Lite Primary Flowmeters

The DryCal DC-Lite offers primary, high-speed volumetric calibrations in a compact, field-portable instrument. Its hands-free operation and quick accurate measurements reduce calibration time, which increases application effectiveness.



Flowmeters

Flowmeters are available in various volumes to allow for quick and accurate flow determinations at specified flow rates. Rotameters are portable flowmeters. They are easy to use, rugged and lightweight and available in different flow ranges to cover a wide range of sampling applications.

Common Sampling Pitfalls

1. Failure to use the sampling media specified in the method
2. Use of area samples to assess personal exposures
3. Failure to collect enough samples
4. Failure to calibrate a pump properly
5. Failure to calibrate with recommended sampling media in place
6. Reusing plastic filter cassettes
7. Failure to account for the presence of interfering compounds
8. Failure to collect the recommended air volume or to sample at the recommended flow rate
9. Failure to inspect the filter during the sampling period
10. Failure to store samples properly after collection

From "50 Common Pitfalls Hazardous to the credibility of you and your sampling reports" by Debbie Dietrich of SKC Inc and George A Dwiggins