

BioLite⁺Air Sampling Pump and BioSampler



BioLite⁺ Air Sampling Pump

The SKC BioLite* Pump was specifically designed for use with the SKC BioSampler for sampling airborne biological hazards (e.g. fungal spores or bacteria) in the form of bioaerosols, and is an enhanced version of the SKC BioLite Pump. It has a high flow rate, up to 62 L/min and has a back pressure gauge which indicates when sonic flow has been achieved when used with a BioSampler. The BioLite+ pump allows you to sample onto a liquid medium.

- Ideal for sampling biological hazards (fungal spore or bacteria)
- High flow rate which built-in back pressure gauge
- Robust metal casing with integral handle
- Works in conjunction with a BioSampler
- Two mounting points allows two BioSamplers to be attached and operated simultaneously at a total flow rate of 25 L/min
- Simple flow adjustment



Sampling with the BioSampler/BioLite

Applications:

Indoor air quality testing
Infection control (e.g. hospitals and vets)
Infectious disease investigations
Animal and human exposure/risk investigations
Agriculture, horticulture, industry and environments, e.g. composting, storage areas (wood, waste, etc), manufacturing

Part Number	Description
228-9620	BioLite ⁺ Pump 0-62 l/min 230V (includes 3 pin UK and 2 pin EU Mains Leads)
228-9615	BioLite* Pump 0-62 l/min 120V (includes USA Mains Lead)

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BioSampler

While there is no standardised method for bioaerosol collection at this time, many organisations, including SKC, are researching improved measurement techniques. The patented[†] BioSampler® is a result of SKC's work with leading scientists at the University of Cincinnati.

- Allows use of non-evaporating collection liquids
- Patented swirling liquid collection method[†] minimises re-aerosolisation and particle bounce
- Preserves micro-organism integrity and viability
- Reusable can be autoclaved
- Maintains constant sampling efficiency up to 8 hours
- Collected bioaerosols can be analysed by a variety of methods
- Complete glass construction allows easy cleaning, sterilising, autoclaving and reuse
- Collection liquid easily transferred to agar plate for culturing



† U.S Patent No. 5,902,385 (device) ‡ U.S Patent No. 5,904,752 (method)

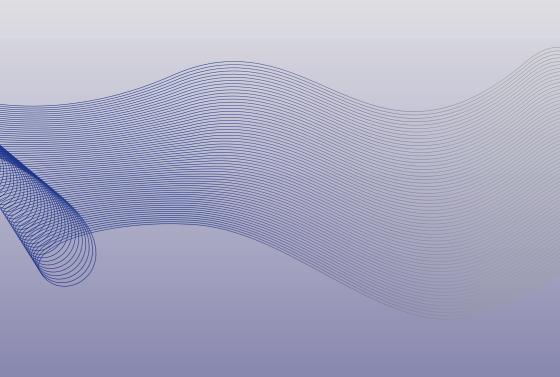
BioSampler Operation

The BioSampler® must be operated with a high volume sonic flow pump, such as the BioLite/BioLite+ Pump, that can maintain 15 inches mercury or 0.5 of an atmosphere of downstream pressure in the system.

The BioSampler's three tangential nozzles act as critical (sonic) orifices, each permitting 4.2 L/min of ambient air to pass through for a total flow rate of approximately 12.5 L/min. Collection liquid with a viscosity much higher than water, such as ViaTrap (special mineral oil), can be used with the BioSampler to provide constant collection efficiency over an 8 hour sampling period.

Part Number	Description
225-9595	20 ml BioSampler (Single), 3-piece glass, includes: inlet section, outlet section, and collection vessel (does not include ground joint cap). Inlet and outlet sections are a matched set
225-9595K4	20 ml BioSampler (Set of 4), 3-piece glass, includes: inlet section, outlet section, and collection vessel (does not include ground joint cap). Inlet and outlet sections are a matched set
225-9593	5 ml BioSampler, 3-piece glass, includes: inlet section, outlet section, and collection vessel (does not include ground joint cap). Inlet and outlet sections are a matched set

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SKC Ltd. 11 Sunrise Business Park, Higher Shaftesbury Road, Blandford Forum, Dorset DT11 8ST

T: 01258 480188

www.skcltd.com

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