

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 bio-aerosols, 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 bacterial)
- 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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