SKC Button Aerosol Sampler

Reusable 25 mm filter sampler for inhalable particles and bioaerosols, at 4 L/min



The Button Sampler holds a 25 mm filter just behind a curved, porous inlet of conductive stainless steel with many orifices. At 4 L/min it closely follows the ACGIH/ISO sampling criteria for inhalable particulate mass. The inlet reduces the oversampling of very large particles, electrostatic effects and the sensitivity to wind direction and velocity.

4 L/min	25 mm	Inhalable	Stainless steel
Flow rate	Filter diameter	Particle fraction	Sampling inlet

Performance

Flow rate [1]	4 L/min, with a sample pump capable of 4 L/min
Particle fraction	Inhalable dust, below 100 µm aerodynamic diameter, including bioaerosols for viable or non-viable analysis
Inlet design	Curved, multi-orifice inlet; reduces oversampling of very large particles and sensitivity to wind direction and velocity
Filter position	Filter close to the inlet; low transmission losses, even particle loading, low variation between samples
Use	Area or personal sampling; reusable

Mechanical

Sampling inlet	Conductive stainless steel, reduces electrostatic effects
Body	Aluminium
Support screen	Stainless steel
Clip	Stainless steel and nylon
O-rings	PTFE (inlet) and BUNA-N (body)
Filter	25 mm
Tubing	1/4" ID
Autoclaving	Up to approximately 273.2 °F (134 °C) Do not autoclave the collar clip and the BUNA-N O-ring

Analysis and filters

Inhalable dust	Gravimetric (GR)
Fungal spores	Epifluorescence microscopy, immunoassay or polymerase chain reaction (PCR)
Metals	X-ray fluorescence (XRF)
Non-viable bioaerosols	25 mm membrane filter such as MCE or PVC
Viable bioaerosols [3]	Gelatin filters help stress-sensitive microorganisms survive short sampling periods
Several bioaerosols	Polycarbonate filters

Operation

Loading	Unscrew the inlet section, remove the PTFE O-ring, place a conditioned and weighed filter on the support screen, refit both
Sampling	Clip the sampler to the worker's collar and the pump to the belt; sample for the required time
Parts	Cap, inlet section, PTFE O-ring, filter, support screen, BUNA-N O-ring, collar clip, body, outlet plug
Transport	Conductive plastic transport case for sending the filter samples to the laboratory

Sampler

Order code	Description
225-360	Button Sampler; needs a 25 mm filter
Ask Analyt-MTC	Button Sampler pump kit

Order from Analyt-MTC with the order codes.

Filters (25 mm) and accessories

Glass fibre filters, 500 per pack	225-702
Polyvinyl chloride (PVC) filters, 5.0 µm, 100 per pack	225-5-25
PTFE filters, PMP support ring, 3.0 µm, 50 per pack (note 2)	225-1711
Mixed cellulose ester (MCE) filters, 1.2 µm, 100 per pack	225-1912
Gelatin filters, sterilised, 50 per pack	225-9551
Polycarbonate filters, 0.8 µm, 100 per pack	225-1601
Button Sampler calibration adapter	225-361
Filter transport cases for 25 mm filters, conductive plastic, 10 per pack	225-67-10

Notes

1. The Button Sampler closely follows the ACGIH/ISO inhalability curve at 4 L/min.
2. Back pressure on PTFE filters can vary within the same lot.
3. Gelatin filters dissolve when placed on agar.

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