The reusable SKC Button Aerosol Sampler is a filter sampler with a porous curved-surface inlet designed to improve the collection characteristics of inhalable dust (<100-μm aerodynamic diameter), including bioaerosols for viable or non-viable analysis. The curved, multi-orificed inlet, made of conductive stainless steel, reduces electrostatic effects and reduces sensitivity to wind direction and velocity. The proximity of the filter to the inlet minimizes transmission losses and provides equal distribution of particle loading and low intersample variation. The Button Sampler closely follows the ISO 7708/CEN sampling criteria for inhalable particulate mass at 4 L/min. A convenient conductive plastic transport case is available for shipping the filters to a laboratory for analysis.

Collection of Inhalable Bioaerosols
The SKC Button Aerosol Sampler provides superior collection of inhalable particles including bacteria and fungal spores. Use the Button Sampler with a 25-mm membrane filter such as MCE or PVC to collect bioaerosols for non-viable analysis. Using SKC gelatin filters with the Button Sampler helps to maintain survival of stress-sensitive microorganisms during short sampling periods for viable analysis. Polycarbonate filters are ideal for sampling multiple bioaerosols. The Button Sampler is used with a sample pump capable of 4 L/min for personal inhalable particulate sampling following the ISO 7708/CEN criteria.
**Button Aerosol Sampler**

For Low-level Inhalable PM Sampling

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**Performance Profile**

**Flow Rate:** 4 L/min

**Construction:**
- **Sampling inlet:** Conductive stainless steel
- **Body:** Aluminum
- **Support screen:** Stainless steel
- **Clip:** Stainless steel and nylon
- **O-rings:** PTFE (inlet) and BUNA-N (body)

**Filter:** 25 mm

**Analysis:**
- **Inhalable dust:** Gravimetric (GR)
- **Fungal spores:** Epifluorescence microscopy, immunoassay, or polymerase chain reaction (PCR)
- **Metals:** X-ray Fluorescence (XRF)

**Tubing:** 1/4-in ID

△ The Button Sampler closely follows the ISO 7708/CEN inhalability curve at 4 L/min. This provides optimum sampling.

**Operation**

The SKC Button Sampler is easy to operate. Simply unscrew the inlet section, remove the PTFE O-ring, place a conditioned and weighed 25-mm filter on the stainless steel support screen, replace the O-ring, and screw the inlet section back onto the sampler. Connect the Button Sampler to a personal sample pump; clip the sampler onto a worker’s collar and the pump to the worker’s belt. Sample for the appropriate time period.

An easy-to-use calibration adapter is available for the Button Sampler. Simply push the calibration adapter onto the Button Sampler inlet and connect the adapter inlet to a calibrator. Calibrate to 4 L/min.

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**Ordering Information**

**Description**

<table>
<thead>
<tr>
<th>Description</th>
<th>Cat. No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Button Sampler, requires a 25-mm filter, see below</td>
<td>225-360</td>
</tr>
<tr>
<td>Button Sampler Pump Kit includes Button Sampler, standard AirChek XR5000 Sample Pump, single charger with cable, 3 feet (0.9 meter) Tygon tubing, and calibration adapter; requires a 25-mm filter, see below</td>
<td>210-4121</td>
</tr>
</tbody>
</table>

**Accessories**

<table>
<thead>
<tr>
<th>Description</th>
<th>Cat. No.</th>
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</thead>
<tbody>
<tr>
<td>Button Sampler Calibration Adapter</td>
<td>225-361</td>
</tr>
<tr>
<td>Filter Transport Case, for 25-mm filters, conductive plastic</td>
<td>225-67</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Cat. No.</th>
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</thead>
<tbody>
<tr>
<td>Glass fiber, pk/500</td>
<td>225-702</td>
</tr>
<tr>
<td>Polyvinyl chloride (PVC), 5.0 μm, pk/100</td>
<td>225-5-25</td>
</tr>
<tr>
<td>PTFE** with PMP support ring, 3.0 μm, pk/50</td>
<td>225-1711</td>
</tr>
<tr>
<td>Mixed cellulose ester (MCE), 1.2 μm, pk/100</td>
<td>225-1912</td>
</tr>
<tr>
<td>Gelatin,† sterilized, pk/50</td>
<td>225-9551</td>
</tr>
<tr>
<td>Polycarbonate, 0.8 μm, pk/100</td>
<td>225-1601</td>
</tr>
</tbody>
</table>

† Gelatin filters dissolve when placed on agar.

‡ Back pressure on PTFE filters can vary within the same lot.

∞ Maximum operating temperature is 464 F (240 C) based on PMP support ring.

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**References**


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**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.