Liquid Handling Station
Pipetting Robot with Laminar FlowBox

The benchtop clean-room for your samples.
Laminar air flow protects samples in your work area against particles and microorganisms.
Meets requirements of ISO 14 644-1 (Class 5) and GMP Annex 1 (Class A).
Liquid Handling Station flow

The Liquid Handling Station flow is BRAND®’s pipetting robot for applications where samples must be protected from particles and microorganisms. Its brand new FlowBox directs the filtered air flow in laminar, horizontal layers across the consumables, such as plates\(^1\). With the door closed, the air volume inside the cabinet is replaced 260 times per hour, and exits through openings in the front door.

Maximize product protection

A microprocessor-controlled horizontal, laminar air flow safely covers the entire working area. The air drawn in from the environment passes through an H14 HEPA filter (99.995% efficiency). The filtered air is then directed across the working area in a laminar flow pattern.

Key applications include pipetting of liquids\(^2\) in a particle and microorganism-free environment, such as PCR, qPCR, sample preparation, packaging of media and buffers, microbiological analyses in the presence of non-pathogenic microorganisms in food analytics QA applications, etc.

<table>
<thead>
<tr>
<th></th>
<th>Door closed</th>
<th>Door open</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Noise level</strong></td>
<td>60 dBA</td>
<td>67 dBA</td>
</tr>
<tr>
<td><strong>Speed of air</strong></td>
<td>0.4 m/s</td>
<td>0.5 m/s</td>
</tr>
<tr>
<td><strong>Volumetric flow</strong></td>
<td>22 m(^3)/h</td>
<td>29 m(^3)/h</td>
</tr>
<tr>
<td><strong>Air exchange</strong></td>
<td>260 times</td>
<td>330 times</td>
</tr>
<tr>
<td><strong>Filter</strong></td>
<td>HEPA 14 acc. to DIN EN 1822</td>
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</tbody>
</table>

1) Patent pending
2) Particle sizes: 0.5 µm, 0.7 µm, 1 µm, 3 µm and 5 µm
Detection method: LIGHTHOUSE Handheld 5016 laser-type airborne particle counter, sample volume: 0.1 cf/min (2.83 l/min)
3) Operation with FlowBox function not suitable for samples harboring a health risk when spread by the laminar air flow (e.g. Risk Group 2 (RG2)) and higher biological substances.

Particle-free conditions in a matter of minutes

Three minutes after switching on the FlowBox, no particles\(^2\) are detectable inside.

Liquid Handling Station flow

Included: FlowBox filtration unit, motor control unit, control software, USB cable, power cable, and operating manual. On-site training for putting into operation.

Cat. No. 7094 02

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Subject to technical modification without notice. Errors excepted.

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