## Air change rates in planes, trains and buildings

<table>
<thead>
<tr>
<th>Category</th>
<th>Air change per hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airplanes</td>
<td>20-30</td>
</tr>
<tr>
<td>Rail</td>
<td>10-15</td>
</tr>
<tr>
<td>Hospital delivery, operating rooms</td>
<td>25</td>
</tr>
<tr>
<td>Office buildings</td>
<td>4-10</td>
</tr>
</tbody>
</table>

**Total air change rate per hour (outside and filtered)**

- Airplanes: 20-30
- Rail: 10-15
- Hospital delivery, operating rooms: 25
- Office buildings: 4-10

**Outside air change rate per hour**

- Airplanes: 1-2.5