Retrofit Your Dental Operatory to Minimize the Impact of Covid-19

Increased air change rates and extraction of aerosolized contaminants directly at the source can help protect dentists and hygienists from exposure to any aerosols generated during dental procedures. Dental Operatory solutions from Price make use of engineering controls including high-volume extraction, HEPA filtration, and recirculated room air to improve indoor air quality while maximizing contamination control and system efficiency.
Room Requirements
The amount of time required for removal of airborne contaminants from a space varies based on the air change rate. As an example, increasing from 4 ACH, typical in many dental operatories, to 12 ACH reduces the time to remove 99.9% of airborne contaminants from 104 minutes to 35 minutes, a 66% reduction.

<table>
<thead>
<tr>
<th>Standard Room</th>
<th>Retrofit Room</th>
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<tbody>
<tr>
<td><strong>Air changes per hour</strong></td>
<td><strong>Required airflow</strong></td>
</tr>
<tr>
<td>4 ACH</td>
<td>200 cfm*</td>
</tr>
<tr>
<td>12 ACH</td>
<td>600 cfm*</td>
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Required Equipment
The retrofit solution for aerosol-generating dental procedure rooms shown on the previous page requires the following equipment.

New Equipment

- **Combination Exhaust and Recirculating Fan Filter Unit (Price FFU)**
  - Exhaust 50 cfm*. Recirculate 400 cfm*.

- **Recirculating Diffuser (Price SMD)**
  - Recirculates 400 cfm* from FFU.
  - SMD//I/18/18/36/3A/24/24/SR/12//B12

- **High-Volume Extraction Arm (by others)**
  - Exhaust 150 cfm*.

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