



Designers and Manufacturers of Mobile Health Clinics

ADI Technical Bulletin #17

Negative Airflow & COVID-19

Recently ADI has been receiving many inquiries regarding negative airflow and what can be done in a mobile clinic to simulate this environment. As a result, ADI is providing the following information and recommendations.

Negative airflow results from an isolation technique named “negative room pressure”, which is used mostly in highly controlled hospital and medical center isolation rooms. For more information on what “negative room pressure” entails visit this link: https://en.wikipedia.org/wiki/Negative_room_pressure. A room must be virtually airtight for a ventilation system to successfully generate and maintain negative pressure. Under current conditions an airtight room in a mobile clinic setting is not feasible. Mobile Clinics, and vehicles in general, have too many potential sources for air leakage including but not limited to: windows, entrance doors, light fixtures, vacuum, compressor, and the A/C units.

ADI Recommendations

ADI recommends that you follow these steps to ensure your Mobile Clinic is as safe as possible for your patients and staff:

1. Add HEPA air purifiers to the lab and operatory areas. The HEPA filter must include an interior UVC light which works with Titanium Dioxide to kill airborne bacteria, viruses, germs, etc. ADI recommends the Germ Guardian AC4100 HEPA Filter for each room/area:
<https://www.guardiantechnologies.com/air-purifiers-with-uv-hepa-filters/air-purifiers-table-top/ac4100-3-in-1-air-cleaning-system-with-hepa-uv-c-sanitizer-and-odor-reduction-table-top-by-germguardian.html>
2. Clean and/or change the air conditioner filters regularly. One of the most common sources of bad air in a mobile clinic is from old and dirty air filters. ADI recommends that the filters be cleaned at least once every two weeks, and be replaced at least once a year or when cleaning is no longer effective. (Filter part #8330A3961)
3. Add one or two ceiling vent fans to the mobile clinic. Most Mobile Dental Clinics already have a ceiling vent in the lab/sterilization area. Adding a second vent allows you to set one to bring air into the clinic, and one to exhaust air to the outside. This creates better air flow and allows for more air exchanges per hour.
4. Clean and sanitize all surfaces regularly.
5. If you have privacy curtains take down and wash your curtains on a daily basis. It would be beneficial to order another set of curtains to make things easier. The curtain fabric should be 100% polyester, wipeable and machine washable. Curtains can be ordered from ADI that include an antimicrobial if necessary.

Questions? Give us a call or send us an email at sales@adi-mobilehealth.com

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