How to Choose a Safe & Effective Air Cleaner

Air cleaners, sometimes called air purifiers, can help clear out wildfire smoke particles and improve indoor air quality. However, air cleaners and replacement filters are expensive. Regional air districts, Medi-Cal managed care plans, local health departments, asthma programs, and others can help community residents reduce their exposure to wildfire smoke by giving them portable air cleaners.

What type of air cleaner is best?
Mechanical air cleaners with High-Efficiency Particulate Air (HEPA) filters or filters rated MERV-13 and higher are best. Electronic air cleaners may produce ozone or other byproducts in the air that can be harmful to health. You can avoid electronic air cleaners by avoiding products that use terms like: ionizer, electrostatic precipitator, plasma, photocatalytic oxidation, hydroxyl generator, or UV light. Some air cleaners have both a HEPA filter and an electronic component, such as an ionizer. If your air cleaner has both, we recommend turning the ionizer function off.

Why is room size important?
Air cleaners are made to clean different sized rooms. It is important to use one that is powerful enough to clean the amount of air in the room where it will be used. The clean air delivery rate (CADR) tells you how much air the air cleaner cleans hourly. This is measured in cubic feet per minute (cfm). Use an air cleaner with a CADR up to 200 cfm for a small room, 200-300 cfm for a medium-sized room, and more than 300 cfm for a large room.

Is it CARB certified?
All air cleaners sold in California must be certified by the California Air Resources Board (CARB) and you can check their list [here](#). Even if you don’t live in California, your healthiest choice will likely be a CARB-certified air cleaner. CARB certifies both mechanical and electronic air cleaners. We recommend choosing mechanical air cleaners.

When choosing an air cleaner, make sure:

- It is a mechanical air cleaner with a HEPA filter
- It is the right size for the room where it will be used
- It is CARB certified
Never purchase an ozone generator—Ozone generators, which are portable “air cleaners” that intentionally create ozone, should never be used in homes, schools, or any space where people may be present. There are companies that try to sell the idea that breathing ozone is actually healthy, but even low concentrations of ozone are harmful to health. It is well-documented that ozone can cause respiratory tract irritation and inflammation, serious breathing difficulty including asthma, permanent lung damage, and cardiovascular effects. Ozone generators are illegal for most uses in California. There are some limited legal uses of these devices under controlled conditions in vacant spaces to kill pathogens and neutralize odors, but they should never be used in any space where people may be present.

Other things to consider:

**Cost:** Air cleaners and replacement filters are expensive, so we encourage agencies and organizations to provide air cleaners to community members when possible. If your program is unable to buy air cleaners, you can inform clients about less expensive options like the DIY box fan. [Here’s a construction guide](#) for a Corsi-Rosenthal Cube. There are very effective air cleaners for $250 or less.

**Energy efficiency:** The Energy Star label means that the product uses energy efficiently. This saves money and helps the environment.

**Noise level:** Air cleaners work best at their highest fan speed. However, they may also be loud. During a poor air quality day, the cleaner should be on the highest setting for best results. Air cleaners that are above 55 decibels (dB) are quite noisy and will be unpleasant for most people.

**Independent testing:** Association of Home Appliance Manufacturers (AHAM) certification means that the product is independently tested & rated for its ability to clean the air. Manufacturers pay for AHAM to evaluate their products, so an air cleaner may still be good even if it is not certified by AHAM.

Additional Resources

Examples of Air Cleaners that meet these criteria

Videos on how to use and maintain an air cleaner in [English](#) and [Spanish](#).