



Amendments to the Air Cleaner Regulation

Indoor Exposure Assessment Section
March 8, 2019 9:30-11:30 AM

Outline of Presentation

- Air Cleaner Regulation background
- Implementation of regulation (2008-2019)
- Amendment goals
- Timeline

Webcast participants can email questions/comments to:

SierraRM@CalEPA.ca.gov

Background

- Research shows that some air cleaners can produce harmful levels of ozone and impact public health
- AB 2276 (2006, Pavley) directed CARB to develop a regulation limiting ozone from air cleaners
- Board adopted regulation in 2007; effective in 2008

What are Indoor Air Cleaning Devices?

- Energy-using products that reduce airborne pollutants in an enclosed space
- Includes devices used in rooms, whole houses/buildings, motor vehicles, and on people



Regulation Requirements for Certification

- Indoor air cleaning devices sold or distributed in CA must be certified by CARB. The certification process requires:
 - Testing for ozone emissions concentrations from electronic portables (≤ 0.050 ppm)
 - Electrical safety testing
 - Application for certification submitted to CARB

Additional Regulatory Requirements

- Device packaging labeled “ARB Certified”
- Notification of distributors, retailers, and sellers about the regulation
- Recordkeeping by manufacturers, distributors, retailers, sellers, and test laboratories
- Advertisements for non-certified devices must display an advisory that they cannot be shipped to California

What Types of Devices Are Currently Exempted?

- In-duct devices
- Certain industrial use devices



What Industrial Uses Are Currently Exempted?

- Devices that are used primarily for sterilization and/or to remove odors
 - Certain agricultural processing applications (i.e., destruction of microbes on produce)
 - Chemical, electronics, pharmaceutical, biotech, pulp and paper industries
 - Hotel industry, fire/smoke/mold remediation
 - Motor vehicle reconditioning and detailing

Progress of Regulation

- Over 2,200 models certified, >300 manufacturers
- Online list of certified devices, widely used by consumers
- Harmful ozone-generators mostly removed from CA marketplace
- Heightened public awareness about health risks from ozone-generating devices

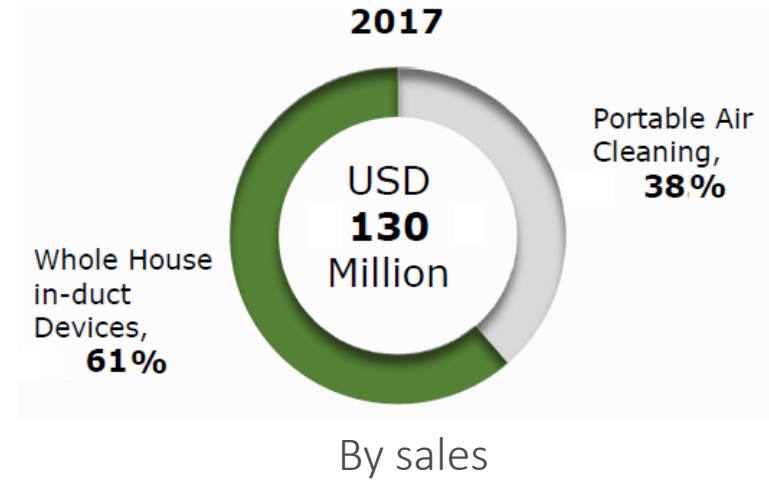
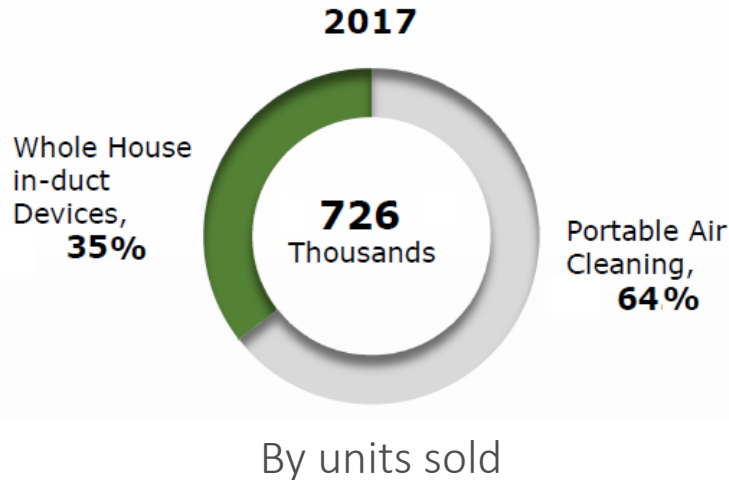
Changing Landscape for Air Cleaner Sales

- More online sales, lack of transparency
- Expanded marketing of in-duct devices
- Increasing number of dual function devices
- Demand due to increased wildfire smoke exposures



California Air Cleaner Market

- More portables by the number of units sold but in-duct units have a larger sales market share

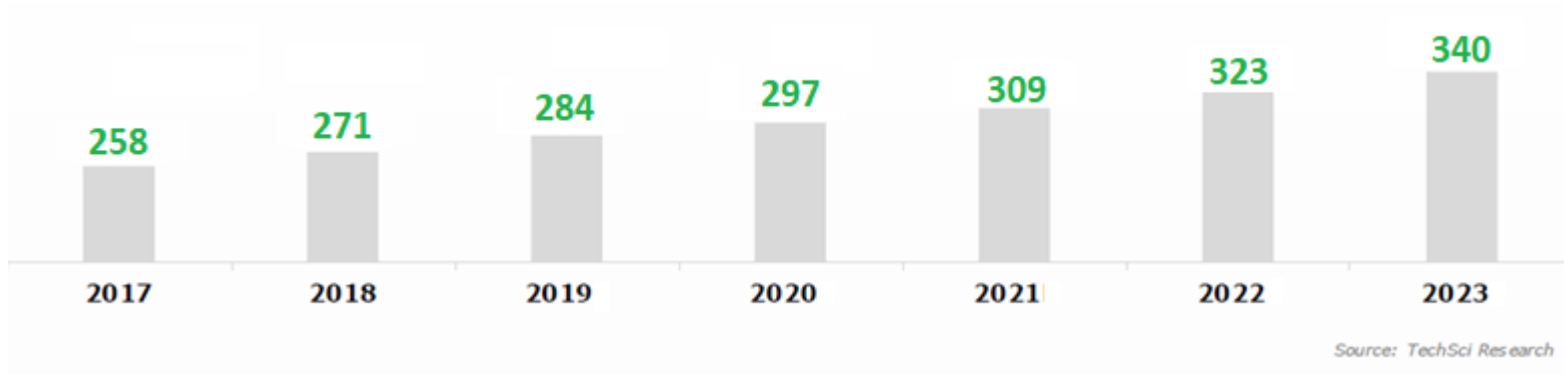


Source: TechSci Research

California In-duct Air Cleaner Market

- A 32% increase of units sold from 2017 to 2023

Thousands of units sold



Regulatory Amendment Goals

- Remove exemption for in-duct devices
- Clarify or eliminate other exemptions
- Streamline regulation implementation
- Update legal references and test methods



In-duct Air Cleaning Devices

- Propose requirement for certification of electronic in-duct devices
 - Test method available
 - Market data shows increasing number of Californians using ozone-producing devices



Update Industrial Use Exemptions

- Eliminate exemptions for certain currently-exempt devices
- Provide other refinements and clarifications, e.g., clarify that industrial-use exempted devices can not be used when people are present
- Any additional exemptions?



Streamline the Regulation

- Exempt mechanical devices with 254 nm UV bulbs that do not generate ozone from ozone testing requirement
- Reduce the application requirements for mechanical devices
- Eliminate CARB reporting requirement for notification documentation
- Clarify requirements for application and re-certification

Update Legal References and Requirements

- Update test standards and permissible laboratories
- Add electrical safety test standards for other dual purpose devices
- Clarify labeling requirement



Potential Benefits of Amendments

- Protect public from exposure to ozone from air cleaning devices in fast-growing sectors
- Streamline the certification application process for certain types of devices
- Shorten necessary processing and application review time

Next Steps in Development of Amendments

- Please submit comments by: March 30th
- Second public meeting: June 3rd
- Prepare rulemaking documents: June – September
- Board Hearing: December 2019

For questions, comments or meeting requests, contact Julia.Gress@arb.ca.gov or call (916) 445-0753.

Questions for Stakeholders

- Are there other commercial or industrial uses for ozone that should be exempted?
- Are there any improvements that you would like to see regarding the certification application process?
- What are the anticipated costs that you expect if some of the ideas presented today are implemented?

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