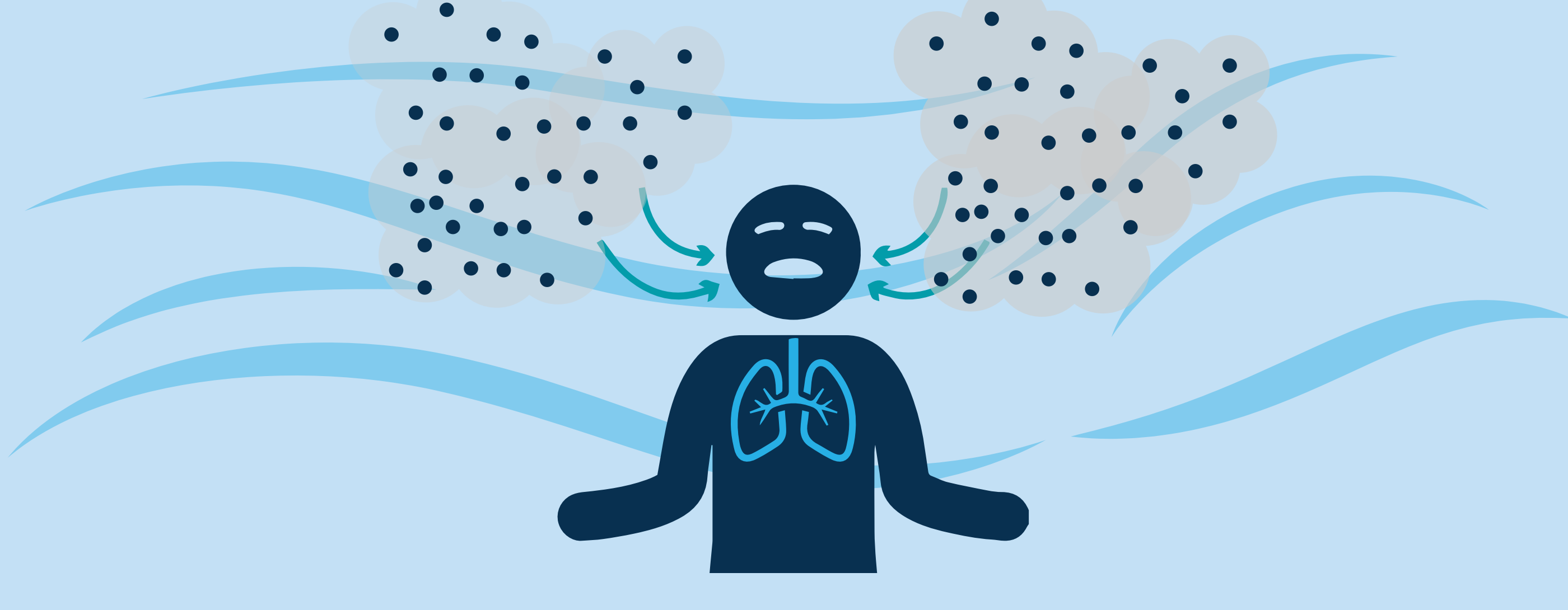


Risky business

Unhealthy dental lab air and what you can do about it

According to the US Department of Labor, five of the ten most unhealthy—and therefore dangerous—professions are in the dental industry, with the fourth most unhealthy profession being dental lab technicians.¹ In the case of dental labs, one major cause is the ever-present dust:



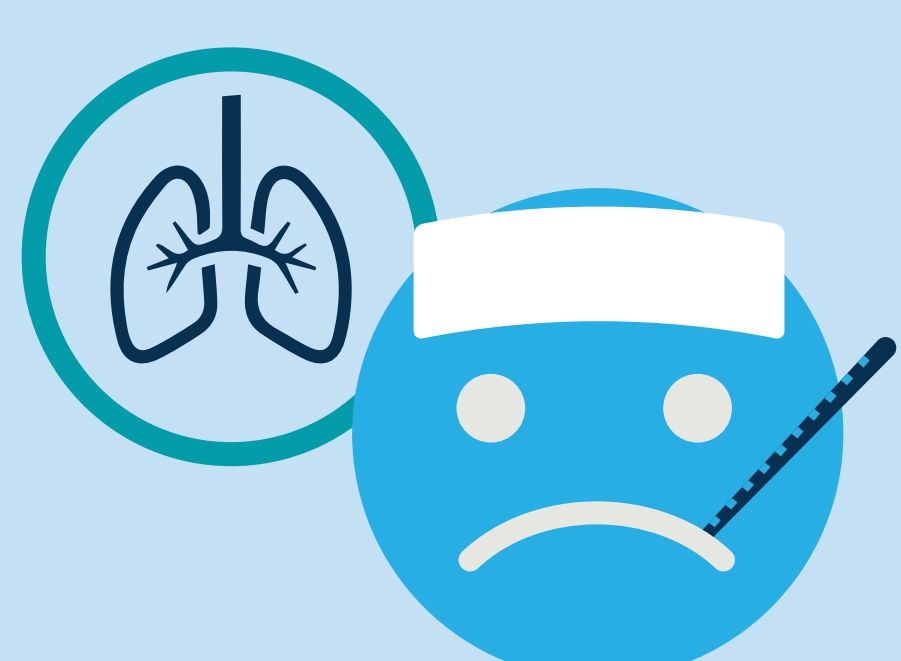
54-70%

The amount of dust particles present in a dental lab that is actually breathable by workers³



30%

The amount of dust in the air that is made up of silica, which is dangerous when breathed consistently



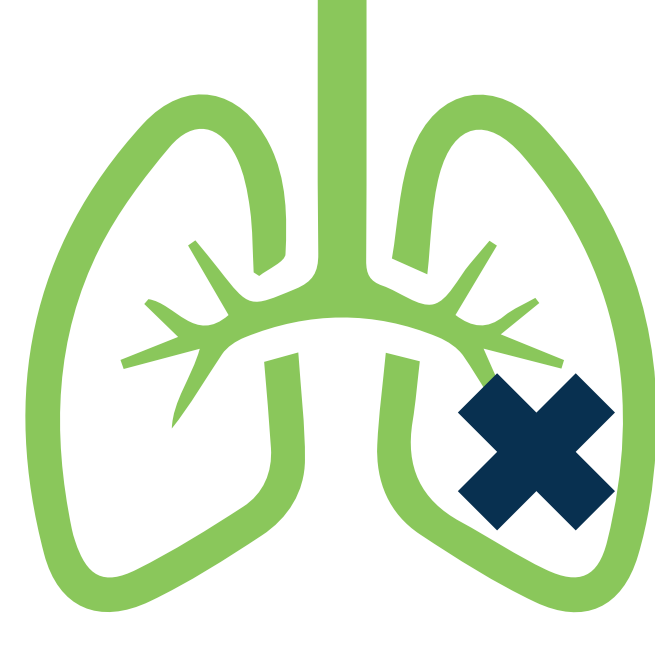
Serious Silicosis

Silicosis is an occupational lung disease that is caused by inhaling respirable crystalline silica dust. The disease is typically found in quarry and mine workers, but...



The Centers for Disease Control

have found a spike in silicosis cases among dental technicians and lab workers⁵



Scarred lungs

Exposure to dust with high silica concentrations and cobalt-chromium-molybdenum alloys presents a greater risk of developing pneumoconiosis,⁶ which can lead to lung scarring and diminished lung capacity.

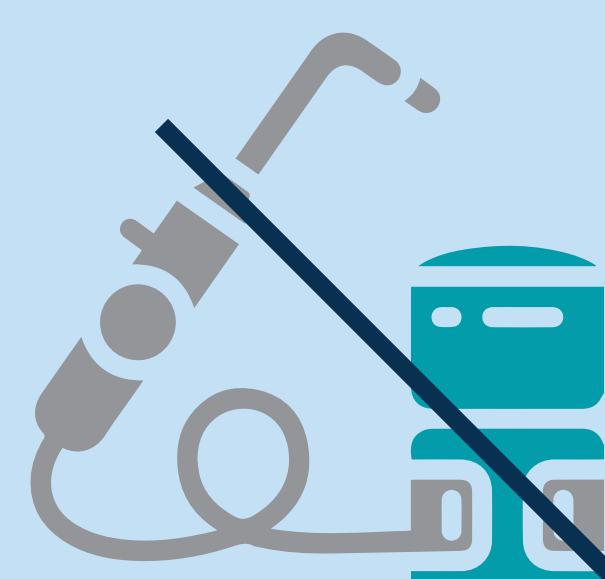
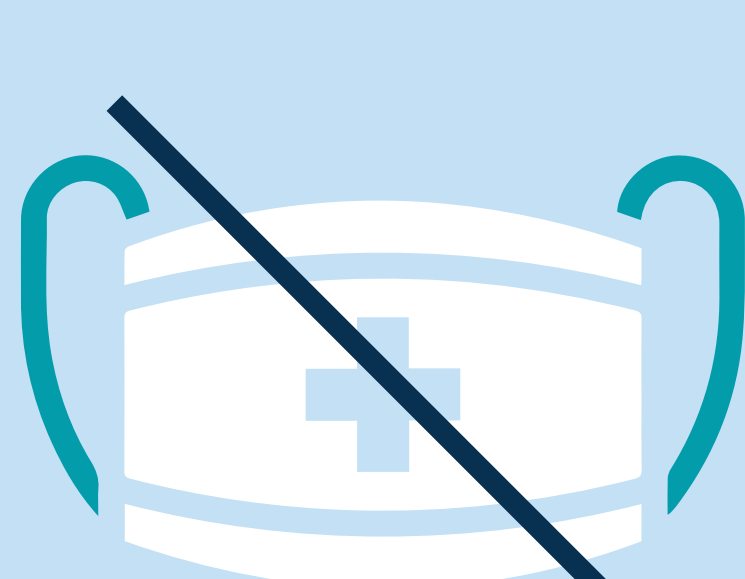


More than just dust

Solvents, mineral acids, gases and vapors are emitted during polymerization, metal casting, mold-making and porcelain baking, filling dental lab air.

Butylene glycol, hexane, ethyl acetate, nitrocellulose, glutaraldehyde, benzoyl peroxide, hydroquinone, corundum, bisphenol-A, kaolin, oxides of titanium, iron and boron⁷

Just some of the chemicals and minerals dispersed into the air during dental appliance development processes



SOLVING THE PROBLEM

There's a simple way to eliminate the risks in your dental lab: clean the air. While surgical masks can lessen the effect of bad air, dust can still creep into the sides of the mask. And suction machines only remove dust from the immediate area around the grinding surface of an appliance.

So: Clean. The. Air.

Clean the entirety of air in enclosed lab areas with AeraMax Professional commercial grade air purifiers. We think they're the best solution in the fight to make dental labs safe.

AeraMax Professional air purifiers:



- ✓ Are the preferred dust elimination solution by leading dental labs around the globe
- ✓ Remove 99.97% of airborne contaminants from enclosed spaces.
- ✓ Drastically reduce dust—as well as odors, VOCs, allergens, germs and other pollutants—providing fresh, cleaner air
- ✓ Feature a four-stage filtration system to capture the smallest particles
- ✓ Use hospital-like HEPA filters—the same kind used in mission critical settings
- ✓ Employ auto-detecting technology, so you can set it and forget it
- ✓ Significantly improve quality of life and health for people working in dental labs

To get started on improving the health and well-being of your employees, visit us at www.aeramaxpro.com/industries/dental-labs/



1. 47 Jobs that are Most Damaging to Your Health, Business Insider, November, 2016.
2. The Dangers of Dust in a Dental Laboratory, AllergoCosmos, June, 2015.
3. Dust in Dental Laboratories, Journal of Prosthetic Dentistry, June, 1980.
4. Dust in Dental Laboratories, Journal of Prosthetic Dentistry, June, 1980.

5. Silicosis in Dental Laboratory Technicians, MMWR Weekly, CDC, March 2014.
6. Occupational and Environmental Medicine, World at Work: Dental Laboratory Technicians, National Institutes for Health, Feb, 2005.
7. Occupational and Environmental Medicine, World at Work: Dental Laboratory Technicians, National Institutes for Health, Feb, 2005.