

Wildfire Smoke + New HVAC Codes = Advanced Filtration Needs

How Reviveaire's Airesshield® Technology Safeguards Indoor Air During Smoke Events

The Growing Threat of Wildfire Smoke

Wildfires are no longer rare occurrences—they're becoming a seasonal reality. As outdoor air quality (OAQ) deteriorates during these events, the need to protect indoor spaces grows increasingly urgent. Unfortunately, many building codes now **mandate the continuous intake of outdoor air (OA)** through HVAC systems to maintain healthy indoor conditions. During wildfire events, however, this well-intentioned regulation can actually introduce harmful pollutants into indoor environments.

Reviveaire is addressing this hidden risk with its breakthrough **Airesshield® technology**, engineered to provide advanced air disinfection and filtration in a world where the air outside isn't always safe to breathe.

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HVAC Codes: Designed to Help, But at What Cost?

The 2019 California Title 24 energy code and similar building mandates across the U.S. require HVAC systems to draw in a constant supply of outdoor air. These rules were created to help dilute indoor pollutants like VOCs, carbon dioxide, and moisture.

But during wildfire events, **outdoor air becomes a source of contamination**, not relief. When HVAC systems bring in smoke-filled air, the consequences can include:

- Increased particulate matter (PM2.5 and smaller)
- Dangerous levels of carbon monoxide and VOCs
- Respiratory issues and allergic reactions among occupants
- Overloading of standard HVAC filters

Reviveaire's Solution: Airesshield Air Disinfection

To solve this growing problem, **Reviveaire developed Airesshield**, a next-generation plasma air disinfection module that works with standard HVAC filters to neutralize airborne threats. Unlike standard filters that allow 95% of submicron particles to pass through, **Airesshield® actively neutralizes pathogens** and clusters particles together, making them easier to trap.

How Airesshield Works:

- **Patented non-thermal plasma field** inside your HVAC system disinfects air at the molecular level
- **Ions bind to small particles**, forming larger clusters for easier filtration
- Reduces viral, bacterial, and fungal loads in the air
- **Improves HVAC coil performance** and fan energy efficiency
- **Pays for itself in 3 years** through energy / filter savings
- Compatible with most residential and commercial HVAC systems
- No ozone or harmful byproducts
- Lasts 10+ years with minimal maintenance

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Why You Need Airesshield Before the Next Wildfire Season

Whether you're a building owner, facility manager, or HVAC contractor, the writing is on the wall: **Outdoor air is no longer reliably clean**. As codes demand more OA intake, **advanced filtration like Airesshield® is no longer optional—it's essential**.

Key Benefits:

- Maintain code compliance without compromising IAQ
- Protect occupants from smoke-borne pollutants
- Retrofit-friendly for both residential and commercial setups
- Reduce HVAC system wear and tear

Take Action Today

As wildfire seasons grow longer and more intense, **now is the time to upgrade your building's air safety strategy**. Don't let outdoor air become a liability—**make it your first line of defense with Reviveaire's Airesshield**.

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Reviveaire: *You are what you breathe. Breathe Safe.*