



## Safer, Cleaner & Monitored Air in Schools

**CLEAN AIR IN THE CLASSROOM - ARE YOU DOING ENOUGH**



## Indoor Air quality within schools setting affects health and academic performance

The quality of the air inside a building is invisible to us but its effects are not. Creating and maintaining air quality, especially in schools, presents a unique challenge. A complex mix of indoor and outdoor air pollutants can compromise this learning environment and cause concern about the health, safety and comfort of students and staff.

Indoor air can be 2-5 times more polluted than outside in general. In addition students and staff are congregating in close quarters, in buildings that are older and poorly ventilated, contributing to the potential for bacterial and viral spread. Therefore, the need to both monitor and maintain indoor quality is critical.

Having good indoor air quality in schools is more than a "quality" issue - it is necessary for a safe and healthy learning and work environment. Indoor air quality is especially important in schools for the following reasons:

- Staff and students spend extended periods of time indoors and are potentially exposed to a variety of indoor air pollutants - in both new and older schools.
- Poor indoor air quality can impact children's health and development. Children's bodies are still developing and not as resistant to the effects of poor indoor air quality. Indoor air problems can be subtle and do not always have easily recognizable impacts on health or well-being.
- School environments can't always accommodate social distancing thereby creating a greater potential for the spread of communicable illness.
- Fresh air ventilation isn't always practical depending on season, the schools age, and architecture.

Good indoor air quality contributes to an effective learning environment for students, as well as productivity for teachers and staff.

### Indoor Air Quality and its Impact on Students and Staff

Indoor air problems can be subtle and do not always have easily recognizable impacts on health and well-being. Diagnosing symptoms related to poor indoor air quality can be difficult. Acute (short-term) symptoms of indoor air quality problems are typically similar to those from colds, allergies, fatigue, or the flu. There are however, some clues that can indicate potential indoor air problems:

- Widespread symptoms within a class or within the school, potentially indicating a ventilation problem
- Disappearing symptoms that go away when students and staff leave for the day
- Sudden onset symptoms that occur after some change at school, such as painting or pesticide application
- Localized symptoms – people with allergies, asthma, or chemical sensitivities have reactions only inside the school, not outdoors
- Diagnosis – a doctor has diagnosed a student or staff member with an indoor air-related illness
- Outbreak event specific to viral pathogens, i.e. Covid-19
  - "Quebec schools without air purifiers have 3 to 4 times more COVID-19 cases. Selena Ross CTV News

Montreal Digital Reporter. Published Friday, April 23, 2021 11:23PM EDT" [Report can be found here](#)

## Identifying and Mitigating Indoor Air Quality Issues at School

The following measures are recommended to help improve the air quality in schools:

1. **Education & Awareness:** understanding Indoor Air Quality measurements, raising awareness of potential symptoms of poor air quality, and consistently monitoring Air Quality.
2. **Ventilation:** Increase the flow of fresh outdoor air for diluting the concentration of any infectious particles where and when applicable.
3. **Control Pollutants and Sources:** Be mindful of the effects of the use of solvents and other chemicals that may trigger Asthma and other breathing irritants. Ensure off-gases of heaters, air conditioners, and cooking appliances are properly ventilated
4. **Filtration:** Implement an Air Filtration System effective against mold, pollen and allergens, volatile compounds, bacteria, and viruses

## About Us

With Aura Air, claim and maintain the highest standards of air quality in your school. Keep your environment safe, healthy and ensure that your students and staff safety and wellness are being considered each time they step into school.



# Why Aura Air is the best Air Purifier for your school

**#1** Aura Air is the only all-in-one, Air Filter, Disinfection & Monitoring system to have successfully completed Clinical Trials relates to its efficacy against the COVID-19 Coronavirus.



**#3** Aura Air provides VISIBILITY and warns IMMEDIATELY of high particulate levels and unhealthy Air Quality using sensor measurements every 10 seconds.



By being able to strategically locate each unit close to staff, children and visitors, ensures the most effective and rapid removal of airborne droplets and the destruction of viruses, mould and bacteria, using Aura Air's unique disinfecting system.

**#2** Aura Air Uses 4 unique stages of air purification and disinfection to clean the air including the pre-filter to remove big airborne particles, the UVC to reduce the bacteria and virus concentration in the air, the Patented RAY FILTER with its Copper Impregnated HEPA filter and Carbon layer to purify the air from PM10, PM 2.5, germs, tobacco scent, bacteria, viruses, fungus and flu germs, and the Patented Sterionizer to complete the purification and disinfection stage by sending positive and negative ions into the



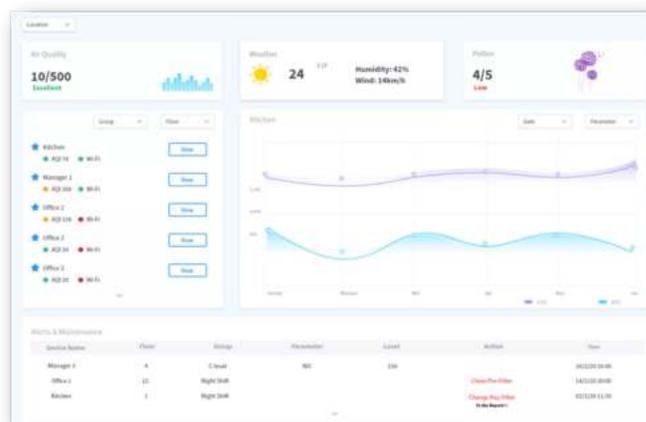
**#4** Aura Air is compact, powerful, aesthetically pleasing, plug n play and easy to install on the wall or ceiling. The Aura Air circulates 350m<sup>3</sup> of air per hour, as much as units three times its price. Its fixed to the wall or ceiling with just three screws and uses a standard power point. Each unit will filter the air in a 600Sq Ft space (assuming a ceiling height of 8 Ft) 2.5 times per hour at full power.



**#5** Aura Air is intelligent and does all the worrying for you. Aura Air will only switch to full power when it needs to and monitors air quality every 10 seconds. It reacts immediately based on the AI algorithms built into the unit. You don't need to worry about adjusting filter fan speeds.

**#6** Aura Air can monitor multiple Aura Air units over one educational establishment or thousands of sites using the Centralize Dashboard. This customizable Dashboard can be displayed on a PC, for instance in the Staff Room or Visitors Area, to ensure both staff and visitors' peace of mind - or at a central location for management monitoring.

Local authorities can instantly and continuously monitor and check air quality inside all of their educational establishments. The Centralized Dashboard allows all of this detailed air quality data to be archived, for instance to confirm that schools consistently meet any future government guidelines for air quality levels and viral control.



The screenshot shows the 'COVID-19 Condition Alert' configuration screen. It features a list of sensors with checkboxes and numerical input fields for setting thresholds. A red circle highlights the 'PM 2.5 (ug/m3)' and 'PM 10 (ug/m3)' entries. A red arrow points from this circle to a text label: 'Aerosol Droplets between 1-10µm'. Below the list, there are 'Add Rule' and 'Cancel' buttons.

Sensor	Min	Max
Temperature (C)	50	80
Humidity (%)	20	80
PM 2.5 (ug/m3)	0	20
PM 10 (ug/m3)	0	20
TVOC's (ppb)	0	500
CO (ppb)	0	20
CO2 (ppb)	0	500

**#7** Custom "Alerts" can be configured to instantly send e-mail warning messages if preset conditions are exceeded, whether it be smoke in a classroom, or excessive particulate levels that may increase the risk of viral contagion of students. No other filter system provides this level of protection, combined with real-time monitoring and scalability.

**#8** Teachers, Student or Parents can access the real-time air quality index for the classroom that they are in via a QR code unique to the device they are viewing. Provide peace of mind with real time air quality transparency.





**Victory Global Supplies**

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**&**

**Aura Canada**

**Because Breathing Shouldn't Require a Second Thought**

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