



**“With the addition of these Air Rover units in our schools, we’ve brought a peace of mind to our staff, students and community to show them we are doing all that we can to make sure that we have clean and purified air in our buildings.”**

*Jeremy R., Superintendent of Schools  
Biddeford & Dayton School Department, Biddeford, Maine*



## Protecting our Children

The education industry is in the midst of a transformation which has been exacerbated by the COVID-19 pandemic. Administrators, like Jeremy R. in Maine, facility managers and teachers are doing everything possible to keep students and staff safe.

With the latest health and safety guidelines in mind, Air Rover engineers designed the portable Air Protection System series to destroy and remove SARS-CoV-2 from the air within minutes of being rolled into the room and plugged into a dedicated 115V outlet.

Helping leaders in education protect our country’s precious assets – our children and teachers– is the most worthwhile mission we can imagine. This fuels our drive to manufacture the highest quality and most effective air purification products available.

*Note: Air Rover incorporates only “true” medical-grade HEPA filters into its Air Protection Systems Series. The systems themselves are not medical devices.*



### Department of Health & Human Services/Center for Disease Control

To protect against airborne transmission of the SARS-CoV-2 coronavirus and other harmful contaminants, the CDC recommends increasing air filtration inside school facilities:

- “Use portable high-efficiency particulate air (HEPA) fan/filtration system to help enhance air cleaning.”
- “These portable HEPA systems are especially important for higher risk areas such as the nurse’s office.”
- “Consider using ultraviolet germicidal irradiation (UVGI) as a supplement the help inactivate SARS-CoV-2, especially if options for increasing room ventilation are limited.”

### ASHRAE

ASHRAE recommends that schools, “introduce portable, all electric HEPA/UV Machines in each classroom with a guideline minimum of 2 air rotations/hour.” The APS2000 (sanitizes air in large-scale spaces such as cafeterias, gyms, and libraries) and the compact APS1000 (for single classrooms and lab rooms) provides all three solutions (HEPA, UV-C light and rapid air changes) in one portable, precision-engineered machine.

# Air Protection Systems Integrate:

## AIR DISINFECTION

- Virus inactivation and pathogen disinfection by UV-C light without generating harmful ozone

## AIR FILTRATION

- Particle capturing as minuscule as .03 micron by HEPA filtration

## AIR MOVEMENT

- Up to 12 air replacements per hour by a super quiet yet powerful high-static blower

**Each unit achieves greater than 99% virus inactivation rate in a single pass of air through the APS machine.**

### Why is ‘a single pass’ important?

Every minute counts when it comes to mitigating airborne transmission of infectious particles in your occupied indoor space.

While other systems may take hours to rotate the air and collect pathogens, Air Protection Systems’ variable-speed, high-static blower operation ensures your space reaches pure, isolation-room quality air within a matter of a few minutes.

Always check the fine print regarding ACH (air changes per hour) when comparing system capabilities.

### Does ‘speed of operation’ really matter?

Yes. Since people can spread the COVID-19 virus asymptotically, time is paramount. The goal is to remove and inactivate dangerous particles in the air quickly before they can infect the room’s other occupants.

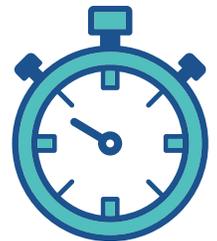
Air Protection Systems remove 99% of dangerous viruses and other air contaminants in the typical size classroom in less than 5 minutes, ensuring the purest, safest air quality possible.

All this helps keep staff, students, and visitors safe and able to focus on their education mission.

### Achieve 99% air disinfection in minutes, not hours

Air Rover APS systems far exceed ASHRAE’s minimum requirement of two Air Changes per Hour for schools.

Roll in the purest air as quickly as possible for your staff, students and visitors’ safety and well-being.



What type of space are you protecting?		Small classrooms and nurse’s offices			Resource centers or large classrooms			University lecture halls and multi-purpose rooms			
Average ceiling height		9 feet						12 feet		16 feet	
How many square feet?		500	600	750	900	1,100	1,200	1,500	2,250	2,500	3,000
Number of air changes per hour (ACH)*	APS1000	10.7	8.9	7.1	5.9	4.8	4.4	2.7	1.8		
	APS2000				14.8	12.1	11.1	6.7	4.4	3.0	2.5
Time (minutes) needed to achieve 99% air disinfection?**	APS1000	5.6	6.8	8.4	10.1	12.4	13.5	22.5	33.8		
	APS2000				4.1	5.0	5.4	9.0	13.5	20.0	24.0

\*min. 2 ACH per ASHRAE recommendations for schools. \*\*Based on computer simulations which predict > 99% UVGI inactivation rate for coronavirus in a single air pass. Courtesy of UVR.

Sources: <https://www.cdc.gov/coronavirus/2019-ncov/community/schools-childcare/schools.html>

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