

Case Study

Special needs school was experiencing high airborne pollutant and particulate levels, which were affecting students with asthma and allergies.



The Problem:

Kids World Academy (KWA) is a private school catering to children from pre-school thru 6th grade with special needs. KWA incorporates Applied Behavior Analysis (ABA), Social Communication, Picture Exchange Communication System (PECS) and the Tomatis Method; which improves motor, emotional, and cognitive abilities, through music and language. In early 2021, KWA was noticing and measuring particulate and the pollutant counts in the school which were going up and causing concerns for the educators and parents alike. One of Airocide's local partners was approached and asked if Airocide would be open to supplying some units to improve the environment and the children's conditions.



The Solution:

[Airocide](#) worked with Brandon Francis M.Ed., Kids World's Academy founder to understand the challenges KWA was experiencing and scoping the solution. Airocide provided a combination of APS-300 and HD-1500 units for placement in the classrooms, music room, and science room.

Airocide's [NASA developed air disinfection technology](#) oxidizes all organic material in the air, without adding anything new to the environment, which was a concern for KWA due to the sensitivities and needs of their students. The HD series adds an additional level of

disinfection with MERV-13 filters, to remove particulate from environments as well.

"It has been wonderful having Airocide air purifying technology at our school. Our students and teachers have noticed better air quality and have had less indoor allergen symptoms. The number of PM2.5 particles, pollutants, and VOC levels have decreased drastically, and we would recommend Airocide to anyone trying to achieve better indoor air quality at their home or business." Brandon Francis, M.Ed.



The Results:

Within 30 days of Airocide being deployed in the environment, KWA staff noticed less allergy issues with the students (complaints, sneezing, coughing, less wheezing from asthma suffers, etc.) and PM 2.5 particulate count was reduced from 46 $\mu\text{g}/\text{m}^3$ to 22 $\mu\text{g}/\text{m}^3$. Total Volatile Organic Compounds (TVOC) went from 264 ppb to 38 ppb, making the indoor air quality significantly better for the learning environment, students, and staff.

KWA also got statements from parents on the improved conditions including one who remarked "Our child is coming home from school with fewer allergy symptoms".

For more information on KWA, please visit their website at <https://www.kidsworldacademy.org/>