MAAG Meeting

January 19, 2023

MAAG Meeting

Thursday, January 19, 2023
10:00am — 12:00pm
Virtual: Zoom meeting

10:00am – 10:20am	**Welcome & Introductions**

10:20am - 11:00am	**MACP Updates/Surveillance & Evaluation**
	• 2022 in Review
	• Surveillance & Evaluation
	• 2023 Events on the Calendar
	  ○ Big Sky Pulmonary Conference
	  ○ AAE National Conference
	• Strategic Asthma Plan: Looking Forward

11:00am - 11:20am	**Air Purifiers in Schools Program** Medify Air Representatives
11:20am - 11:40pm	**Asthma QI in School Based Health Centers** Christian Curtis, RN- Fort Beck School Based Health Center
11:40am - 12:00pm	**Partner Sharing**

PublicHealth IN THE 406

Ice Breaker

Name 2 things you're excited about in 2023

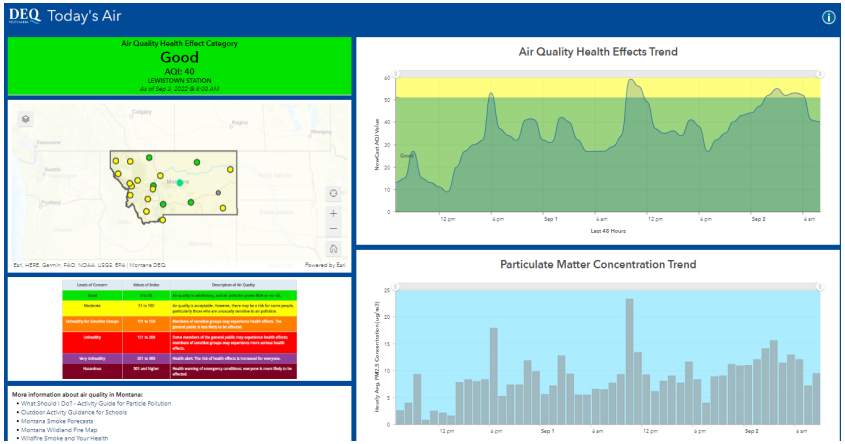
1- personal

1- professional

MACP
2022 in Review

Air Quality & Wildfire Smoke

New Today's Air Website



Air Quality & Outdoor Activity Guidelines

Outdoor Activity & Air Quality Guidelines for Schools and Child Care Facilities

Health Effect Category	Good	Moderate	Unhealthy for sensitive groups*	Unhealthy	Very Unhealthy/ Hazardous
Visibility (miles)	13+	9-13	5-9	2-5	Less than 2
Air Quality Index (AQI)	0-50	51 - 100	101 - 150	151 - 200	201 +
Recess or Other Outdoor Activity (15-30 minutes)	No limitations	No limitations	Keep students with chronic lung or heart conditions indoors. Make indoor space available for all children to be active, especially young children.	Keep all students indoors and limit students to light or moderate activities.	Keep all students indoors and limit students to light activities.
Physical Education Class (1 hour)	No limitations	Monitor sensitive groups and limit their vigorous activities.	Keep students with chronic lung or heart conditions indoors. Limit these students to light activities. Make indoor space available for all students to be active, especially young children. If outdoors, limit students to light or moderate activities.	Conduct P.E. classes in an indoor environment with good air quality and limit students to light or moderate activities.	Conduct P.E. classes in an indoor environment with good air quality and limit students to light activities.
Athletic Events and Practices (2-4 hours)	No limitations	Monitor sensitive groups and limit their vigorous activities.	Students with chronic lung or heart conditions should abstain from outdoor practices and events based on the severity of their condition and sensitivity to smoke. Consider moving practice and events indoors. If events are not cancelled, increase rest periods and substitutions to allow for lower breathing rates.	Reschedule events or relocate to an area with good air quality. Conduct practices in an indoor environment with good air quality and limit students to light activities.	Reschedule/cancel events. Conduct practices in an indoor environment with good air quality and limit students to light activities.

Visit todaysair.mtdeq.us for local air quality conditions and more information.

NBRC
The National Board for Respiratory Care

AE-C Review Course

47 attendees

2022 Big Sky Pulmonary Conference

110 attendees
96% Overall Satisfaction

DLI Safety Fest

Coordinated a training on IAQ ASHRAE Standards

PublicHealth IN THE 406

Asthma in Schools

School Health Mini-Grants 2022-2023

Anaconda Public Schools
Clancy School District
Great Falls Public School District
Monforton School District
Nashua School District
Twin Bridges School
Wibaux Public Schools

School Staff Trained

119

COVID-19 Relief Funding & Indoor Air Quality

ELC School Reopening Grants

- Round 3 funding still available for schools
- $50,000-$100,000 for school districts to support continued COVID-19 testing and mitigation efforts
- Portable air cleaners & HVAC system inspections/assessments

https://dphhs.mt.gov/ARPA/SchoolHealth/ELC

MAP in 2022

25 Clients
Enrolled in 2021

68 Clients
Enrolled in 2022

116 Referrals to the MAP (110 Self-Referrals)

MAP in 2023

+1 New Site

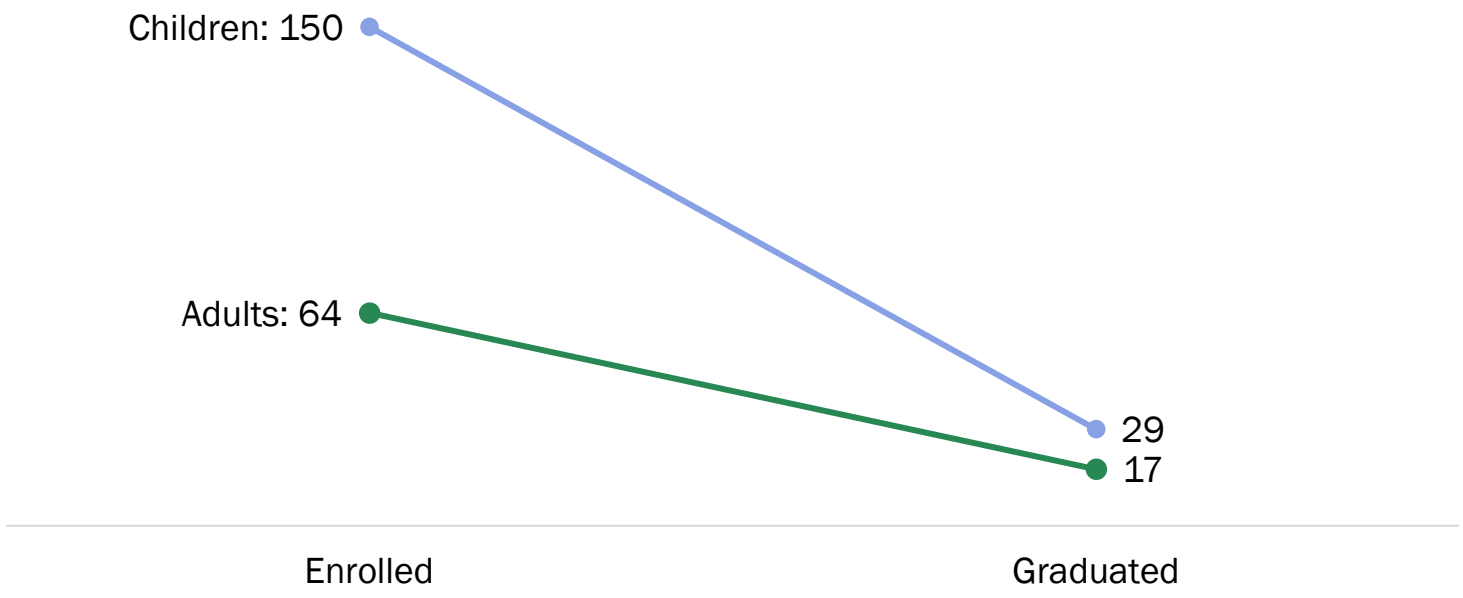
Targeted communication in underserved counties

100+ clients enrolled

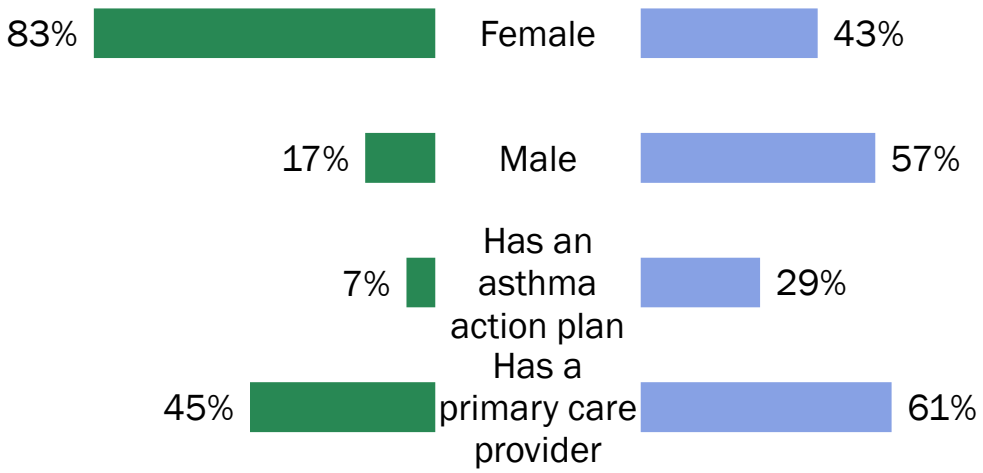
Asthma Quality Improvement

Evaluation & Surveillance

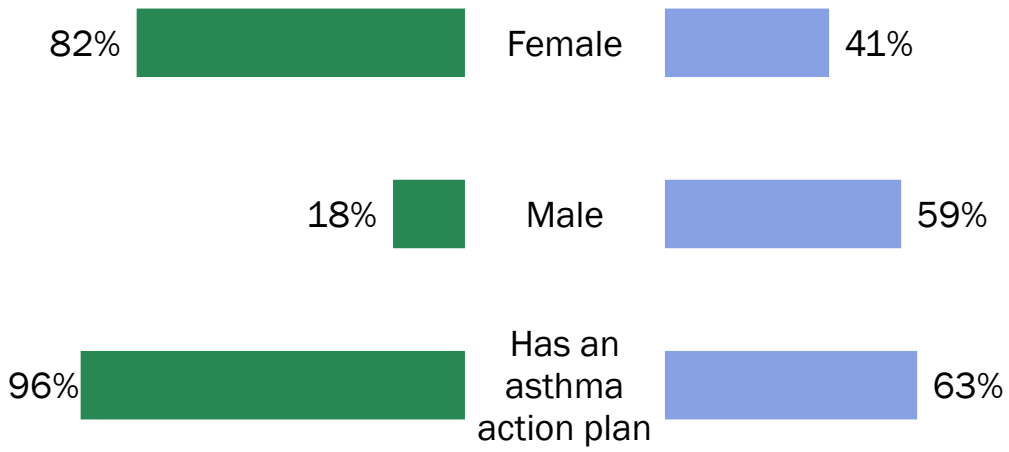
Since 2018, there have been 214 MAP enrollees: 150 children and 64 adults.

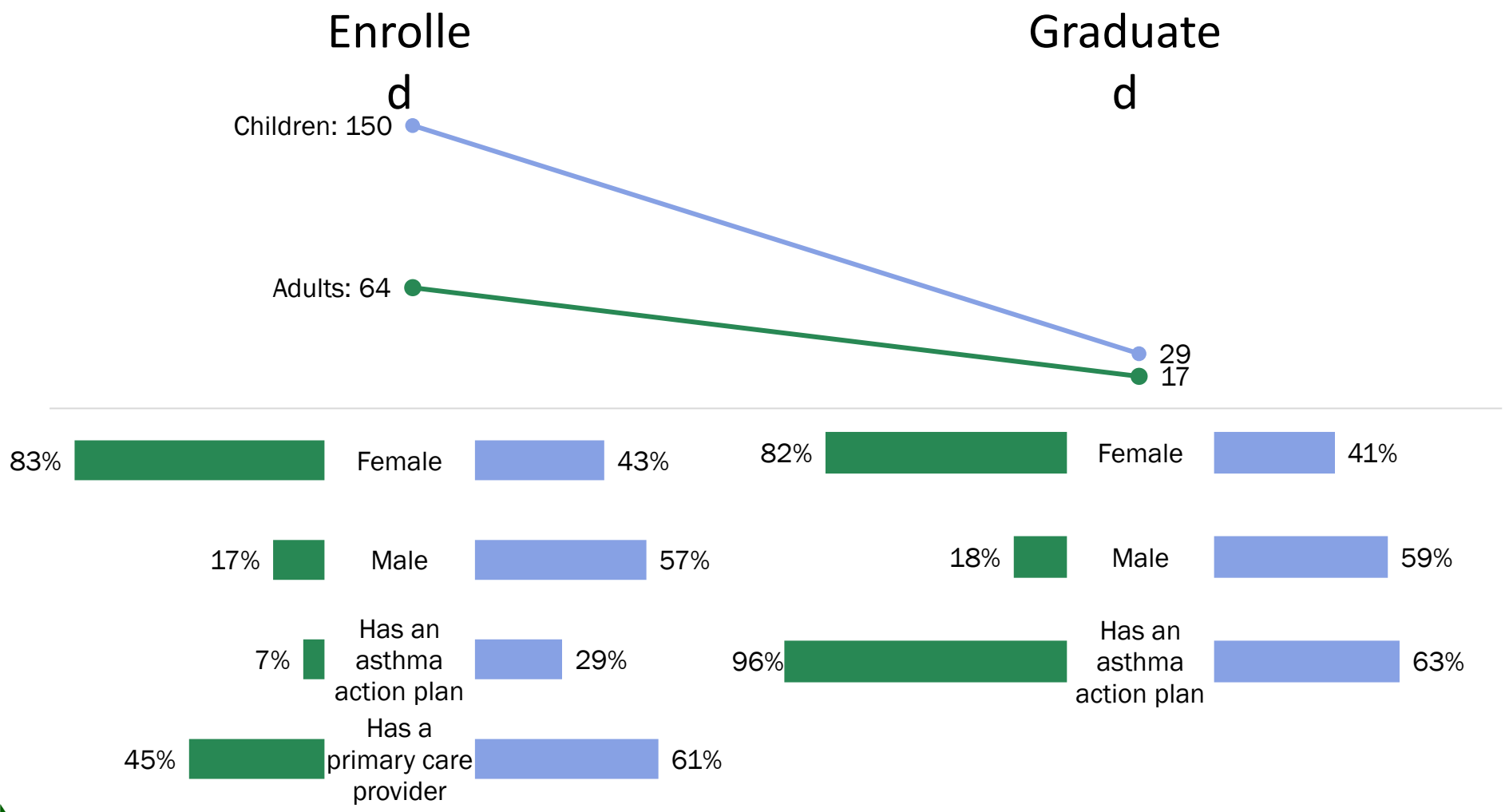


Only 7% of adults had an asthma action plan at enrollment, compared to 29% of children.



At graduation, 96% of adults had an asthma action plan, as well as 63% of children.




Enrolled
Graduated
Children: 150
Adults: 64
29
17
83%
Female
43%
82%
Female
41%
17%
Male
57%
18%
Male
59%
7%
Has an asthma action plan
29%
96%
Has an asthma action plan
63%
45%
Has a primary care provider
61%

Planned reports and presentations for 2023

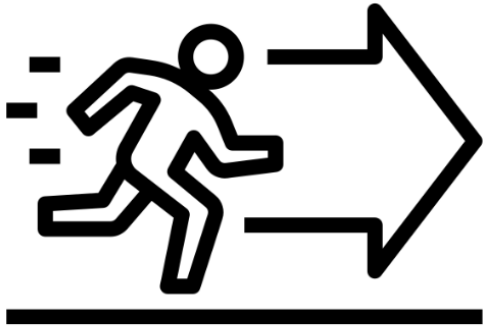
- Syndromic surveillance: what is it and what can we learn from it regarding asthma?
- Community health linkages
- ASME Reimbursement

Sat, February 18, 2023,
8:30 AM – 4:00 PM MST

Carroll College Campus Center - All Saints Hall ("The Cube")
1601 North Benton Avenue Helena, MT 59625

PublicHealth IN THE 406

AAE Conference Coming to Montana!



GOOD THINGS AHEAD

PublicHealth IN THE 406

Social Determinants of Health

The MACP will leverage new and existing partnerships to address the social determinants that lead to asthma disparities in Montana.

Enhancing Infrastructure/Promoting Care Coordination

Goal 2: Increase coverage for comprehensive asthma control services.

Objective 1: Secure reimbursement for asthma home visiting services.

- Continue to partner with Montana Medicaid to secure reimbursement for asthma home visiting services.
- Support the work of the Hometown Medication Therapy Management (MTM) program and other programs that provide ASME to employees and their dependents as part of the employee's health insurance coverage.
- Advocate for expanded coverage of asthma self-management education by presenting the business case for asthma home visiting to private insurers.

Objective 4: Support culturally appropriate interventions tailored to American Indians living in Montana.

- Promote MACP partnership opportunities to Tribal Health Departments and Indian Health Services.
- Partner with public health programs and non-profit organizations to address social determinants of health on Montana reservations.

Provider and Patient Education

Goal 1: Increase the number of health care providers (HCPs) and allied health providers (e.g. pharmacists, nurses, respiratory therapists) who receive professional development training on evidenced based asthma management practices.

Objective 1: Improve access to education and resources for health care professionals needed to effectively manage their patient's asthma.

- Train a variety of school nurses, public health educators, respiratory therapists, and/or asthma educators to implement evidence-based programs.

Environment and Public Policy

Goal 1: Identify and reduce exposure to environmental hazards that contribute to increased asthma prevalence and negative asthma outcomes in settings where Montanans live, learn, work, and play.

Objective 1: Inform the public about the relationship between asthma and environmental triggers.

Objective 3: Educate decision makers and community business leaders on policies and practices to improve indoor and outdoor air quality.

Montana K-12 Air Purifier Program

GRAINGER

MONTANA DPHHS
Healthy People. Healthy Communities.
Department of Public Health & Human Services

MEDIFY AIR
A HIGHER STANDARD OF AIR PURIFICATION

Agenda

1. About the program
    a. Why/how it is being conducted
    b. Intro
        i. DPHHS
        ii. Medify
2. Benefits of Air Purifiers
3. Order Process Outline
4. Technical support
5. Questions
    a. FAQ

About

The Montana Department of Public Health & Human Services has partnered with Medify Air and Grainger to supply portable air purifiers to K-12 schools throughout the State of Montana. This program is funded through the ARPA ELC Reopening Schools Grant from the CDC and comes at no cost to schools.

Goal:
To provide air purification units and replacement filters for 3 years to as many K-12 schools in Montana as funding allows to foster safer and healthier learning environments for students, faculty, and staff.

Program Timeline: January 1, 2023 - June 30, 2023
Funding available: $10 million

Program Overview

Eligibility

- All K-12 public schools and private schools
  (*ELC School Reopening Grant participation not a prerequisite)*

What do Schools Receive?

- Air purifiers to cover every classroom/common space on the school campus
- Technical support from Medify and Grainger representatives

How to Participate / Where to Go for More Info

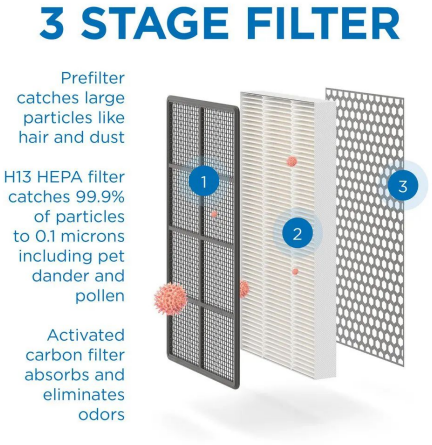
- Determine # of purifiers needed and send order forms to Grainger/Medify team

  Program website:https://dphhs.mt.gov/ARPA/SchoolHealth/AirPurifiers

Benefits of Air Purifiers

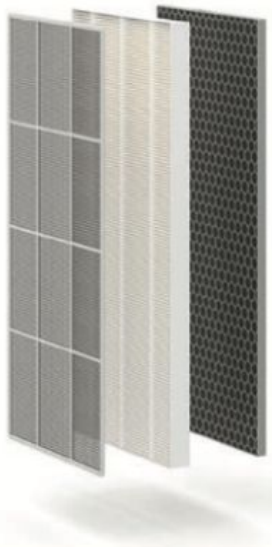
Benefits:

- Improve overall indoor air quality
- Protect from spread of airborne virus carriers
- Improve classroom conditions for students with asthma and other respiratory illness
    - Mitigate triggers for asthma
        - Dust, dander, pollen, smoke, mold
- Improved cognition
- Reduce adverse effects from wildfire smoke
- Backed as effective COVID mitigation strategy by the CDC and EPA
- Other states running similar projects:
    - Utah, Colorado, Vermont, Rhode Island, North Dakota, Alabama, Georgia, Missouri, Michigan, and more



Medify Air H13 True HEPA Filters

Medify Air Purifiers use H13 True HEPA filter with three levels of filtration to catch and remove allergens, pet dander, and more.



Captures up to
99.9%
of particles

Maintain your lifetime warranty by using genuine Medify replacement filters

AIR PARTICLES	MOST AIR PURIFIER H11 TRUE HEPA	MEDIFY AIR H13 TRUE HEPA
Pollen	✓	✓
Dust	✓	✓
Mold	✓	✓
Bacteria	✓	✓
Dust Mites	✓	✓
Common Smoke	✓	✓
Lead Dust	✓	✓
Pet Dander	✓	✓
Asbestos		✓
Paint Pigment		✓
Insecticide		✓
Anthrax		✓
Carbon Dust		✓
All Bacteria		✓
Tobacco Smoke		✓
Virus Carrier		✓

Harvard Study

"... shows the significant acute effects of PM2.5 and ventilation on cognitive test performance. These findings add to a growing body of evidence of how air pollution affects brain health, both short- and long-term.

In addition, our paper suggests that the effects of PM25 are not exclusive to children or older populations, but are also present among young adults (the mean age of study participants was 33 years old).

Some key takeaways:

- We developed an ecological momentary assessment framework to administer cognitive tests based on real-time indoor PM2.5 and CO2 measurements.
- We found 0.8-0.9% slower response times for every 10ug/m3 increase in PM2.5. Throughput (correct responses per minute) was 0.8-1.7% lower for the same concentration increase.
- We also found effects of CO2 (a proxy for ventilation) on cognitive function. For every 500ppm increase, we saw response times 1.4-1.8% slower, and 2.1-2.4% lower throughput.
- We did not find a lower threshold at which effects from low ventilation are no longer present.

In addition to the well-established health benefits from lower PM2.5 levels (e.g. ***reductions in cardiovascular disease, asthma attacks, premature mortality***), and from higher ventilation rates (e.g. ***reduced infectious disease transmission, fewer sick-building symptoms, and reduced absenteeism***), our findings provide further incentive to improve air quality in indoor spaces."

https://www.hsph.harvard.edu/healthybuildings/2021/09/09/impacts-of-indoor-air-quality-on-cognitive-function/

Order Placement Process

1. Medify Air and Grainger representatives are actively reaching out to school officials to begin the order process.
2. School officials will be given an order form to fill out and return.
3. Orders will go through an approval process by the MDPHHS.
4. Once approved, Medify Air will reach out to the appointed shipment receiving contact to provide shipping information.
5. The receiving contact will account and sign for all items received.

All attendees will be sent an order form after this meeting, please complete as quickly as possible so we can begin the approval and fulfillment processes!

Order Form:

Montana K-12 School Air Purifier Order Sheet

Email completed form to Jack@medifyair.com

Facility (School) Name:

Shipping Address:

POC Name: Telephone: Email:

Air Purifier Units (each unit will be delivered with a 3-year supply of HEPA filters***, 6 filters per unit***)

MA-15 For small rooms under 165 sq. ft.
Grainger Product #'s: Unit: 78UU22, Filter: 78UU24
CADR: 150m3/h |Power: 18W
Electric Voltage: 110-120V / 60HZ
Max Noise: < 51dBA | Net Weight: 6.64 LBS
Dimensions: 15.5"H x 9.7" W x 9.7" D

Number of rooms =
MA-15 units =

MA-25 For small rooms under 250 sq. ft.
Grainger Product #'s: Unit: 78UU27, Filter: 78UU30
CADR: 230m3/h | Power: 28W
Electric Voltage: 110-120V / 60HZ
Max Noise: < 52dBA | Net Weight: 7.3 LBS
Dimensions: 13.5"H x 8" W x 8" D

Number of rooms =
MA-25 units =

MA-40 For small rooms under 420 sq. ft.
Grainger Product #'s: Unit: 78UU25, Filter: 78UU26
CADR: 380m3/h | Power: 68W
Electric Voltage: 110-120V / 60HZ
Max Noise: < 66dBA | Net Weight: 15.6 LBS
Dimensions: 22"H x 9.9" W x 10.9" D

Number of rooms =
MA-40 units =

MA-50 For medium rooms under 550 sq. ft.
Grainger Product #'s: Unit: 78UU19, Filter: 78UU21
CADR: 500m3/h | Power: 70W
Electric Voltage: 110-120V / 60HZ
Max Noise: < 56dBA | Net Weight: 16 LBS
Dimensions: 12.4"H x 12.4" W x 24.69" D

Number of rooms =
MA-50 units =

MA-112 for Classrooms up to 1,050 sq. ft.
Grainger Product #'s: Unit: 78UU16, Filter: 78UU18
CADR: 950m3/h | Power: 95W
Electric Voltage: 110-120V / 60HZ
Max Noise: < 70dBA | Net Weight: 33.5 LBS
Dimensions: 28.3"H x 15.7" W x 15.4" D

Number of rooms =
MA-112 units =

MA-125 – Classrooms up to 1025 sq. ft.
Grainger Product #'s: Unit: 78UV35
(White), 78UV36 (Black), Filter: 78UV37
CADR: 930m^3/h (547 CFM)
Power: 132W | 9 Fan Speeds
Max noise: < 67 dB | N.W. 32 LBS
Dimensions: 16.6' X 15.7" X 23.4"

Number of rooms =
MA-125 units =

MA-1000 – For large rooms up to 1,875 sq. ft.
Grainger Product #'s: Unit: 78UU31 Filter: 78UU32
CADR: 1700m3/h | Power: 200W
Electric Voltage: 120V / 60HZ
Max Noise: < 66 dBA | Net Weight: 88 LBS
Dimensions: 22.8" L x 22.8" W x 47.2"H

Number of rooms =
MA-1000 units =

All above recommendations are for 4 air exchanges per hour

Official Use Only:

Total order:

_____= MA–15 (including 3 years of replacement filters)

_____= MA–25 (including 3 years of replacement filters)

_____= MA–40 (including 3 years of replacement filters)

= MA–50 (including 3 years of replacement filters)

_____= MA–112 (including 3 years of replacement filters)

_____= MA-125 (including 3 years of replacement filters)

_____= MA–1000 (including 3 years of replacement filters)

Authorized Signature

_____
AUTHORIZED SIGNATURE

Unit Selection

1. Measure the square footage of each room, this information can almost always be found on a floor plan.
2. Know your ceiling heights.
3. Select the air purifier closest to the area of each room.
    a. Size up when between sizes to ensure optimal coverage and air flow.

Unit Coverage Areas, based on 10-foot ceilings:

MA-15 *For small rooms under 165 sq. ft.* **MA-25** *For small rooms under 250 sq. ft* **MA-40** *For medium rooms under 420 sq. ft.* **MA-50** *For medium rooms under 550 sq. ft.*	**MA-112** *For large rooms under 1,050 sq. ft.* **MA-125** *For large rooms under 1025 sq. ft.* **MA-1000** *For large rooms up to 1,875 sq. ft.*

Receiving Shipments

- Within the order form, you will be asked to share the proper contact for receiving the shipment. This person will be contacted as quickly as possible after order forms are approved–generally in 1-3 days.
- Shipments will be drop shipped directly to each school's loading dock. Smaller orders will be sent via UPS, and larger orders will be delivered via freight truck.

Support

- Medify Air and Grainger are available for support throughout and after the program.
- All Medify Air units have a lifetime warranty as long as filter changes are maintained, if any issues arise with your units, please contact Medify Air’s customer service for troubleshooting and replacements.

Unit Installation

Follow 7 Simple Steps:

Unbox Unit

(DO NOT Plug in unit yet)

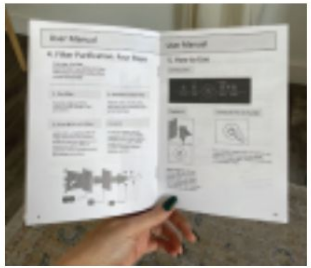
Easily remove side panels from side of unit

Remove plastic protective covering from filter

Replace Filter

Replace side panel

Plug In unit



See Operating Information for next steps

Ensure the unit is at least 1-2 feet away from any walls or furniture

Place the unit in the back center of the classroom or office, when possible, to mitigate noise and provide maximum airflow

If using more than two PAC's in a room, ensure they are evenly spaced throughout the room in order to provide an optimal airflow environment and avoid "dead zones" of air movement

Questions?

FAQ:

1. Do air purifiers help with COVID-19?
2. How frequently do filters need to be changed?
3. Where should we put our air purifiers?
4. What are the benefits of using air purifiers?
    a. Do they actually work?