



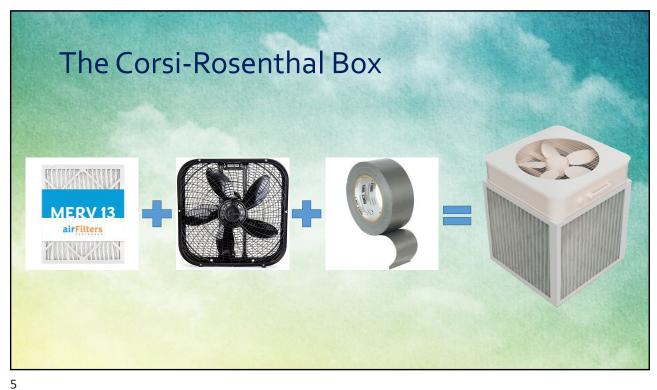
The Challenge: Indoor Air Quality

- Indoor air is often dirtier than outdoor air
- Pollutants, aerosols concentrate indoors
- Asthma triggers abound
- Ventilation & filtration not always adequate
- No indoor air quality standards or regulation

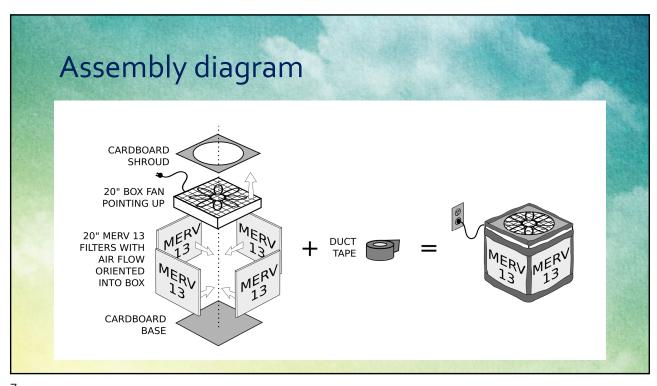


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The birth of an idea ... Richard Corsi Jim Rosenthal • How to improve filtration in classrooms AFFORDABLY? • CEO, Tex-Air Filters • Certified air filter specialist







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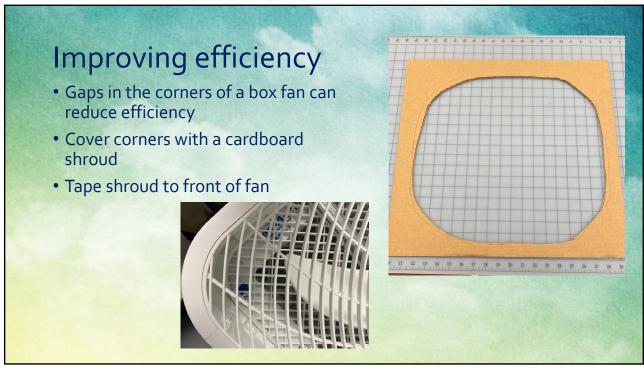
Assembling the cube Tape air filters together Look for arrows along edge of filters to indicate airflow Make sure airflow is pointing inward



Sealing the gaps

Use duct tape to seal all gaps
If necessary, use cardboard to fill corner gaps when fan is placed





Optimized box fan shroud opening by @DavidElfstrom





Utilitech/Hurricane
13.5" (34 cm) opening
align with pattern
47% more flow



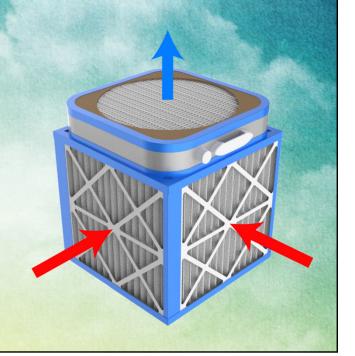


Lasko Comfort Cooling 15" (38 cm) opening 38% more flow

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How it works

- Air flows in through the filters and out through the fan
- Place box in center of room for best results, or at least 3 feet from a wall



Finish sealing with tape

- Seal all seams and gaps with duct tape
- Add your own special touches!









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How well does it work?

- Air Changes per Hour (ACH) The goal is 6 ACH
 - Typical home <1
 - Typical classroom ~3
 - Adding one-two CR boxes in a classroom can reach or exceed this goal
- Clean Air Delivery Rate (CADR) varies from 250-600, depending on fan speed
- Efficient
 - Tests perform very well for aerosols, smoke, dust, pollen, mold
 - More efficient with larger particles
 - Safe & quiet
 - Can be used for several months before switching out filters





For more information ...

- Cleanaircrew.org
- Cleanarair.com lesson plans and resources
- https://bit.ly/CRTesting Testing efficiency & effectiveness of CR boxes
- https://www.youtube.com/watch?v=XNZCGdZYqxs EEC video showing construction of the CR box

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