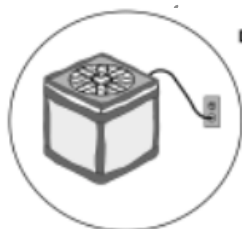


COVID PUBLIC HEALTH EDUCATION



DIY AIR CLEANING: MAKING A 'CORSI AIR BOX' / 'COMPARETTO CUBE'

COST: < \$175 USD

IMPACT: CAN ADD THE EQUIVALENT OF ~ + 3 AIR CHANGES PER HOUR TO A TYPICAL CLASSROOM

GATHER MATERIALS

1

MERV 13
AIR FILTERS
(20"x20")

+

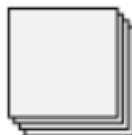
BOX FAN
(20"x20")

+

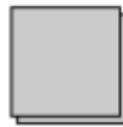
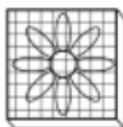
CARDBOARD
SHEETS
(20"x20")

+

DUCT
TAPE



X 4

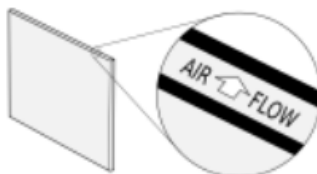


X 2



**NOTE
FILTER
FLOW
DIRECTION**

2



MERV 13 FILTERS HAVE A
**PREFERRED AIRFLOW
DIRECTION,**
INDICATED ON
FILTER FRAME

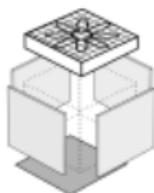
**ARRANGE
'BOX'
PARTS**

3

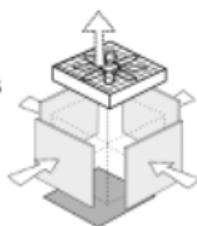
TOP: FAN

SIDES:
FILTERS

BOTTOM:
CARDBOARD

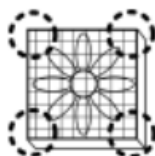


**ORIENT FILTERS
& FAN SO THAT
AIR FLOWS
INTO SIDES
& OUT TOP**

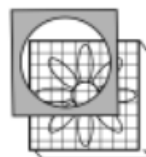


**PREPARE
FAN
SHROUD**

4



CORNERS OF
BOX FAN CREATE
'BACK FLOW'
CAN REDUCE
PERFORMANCE...



... WHICH CAN BE BE
PREVENTED BY
MAKING A
CIRCULAR SHROUD
FROM CARDBOARD
SHEET (USING
FAN DIAMETER)

**ASSEMBLE
AND
SEAL**

5

USE **DUCT TAPE**
TO CONNECT
PARTS AND
MAKE AN
**AIR-TIGHT
SEAL...**



+



... AND ADD
**SHROUD TO
TOP OF FAN**



EDUCATE AND PROTECT YOUR COMMUNITY

COVID IS AIRBORNE

**WE WERE TOLD THAT COVID WAS
TRANSMITTED BY DROPLETS, BUT IT IS
ACTUALLY TRANSMITTED THROUGH
AEROSOLS**

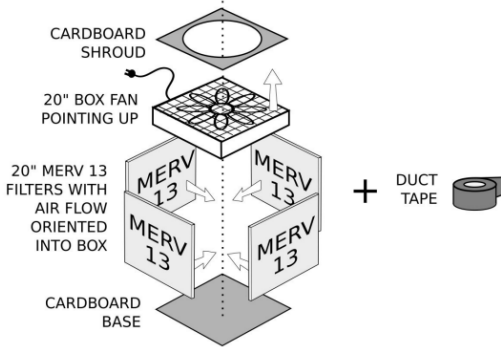
**AEROSOLS ARE MUCH MUCH SMALLER THAN
DROPLETS**

**FOR EXAMPLE, SMOKE IS MADE UP OF
AEROSOLS.**

**AND JUST LIKE SMOKE, UNLESS YOU DO
SOMETHING TO GET RID OF THEM, THEY JUST
GET THICKER IN CONCENTRATION.**

**EVERY TIME WE OPEN OUR MOUTH WE
GENERATE AEROSOLS**

WE NEED TO CLEAN THE AIR



- **SOLUTION- PORTABLE AIR FILTERS. TAKES 10 MINUTES TO MAKE AND LESS THAN \$100**
- **WE NEED THESE IN EVERY CLASSROOM**
- **WHITE PEOPLE AND RICH COUNTIES ARE ALREADY USING THESE**
- **BUT THIS KNOWLEDGE IS NOT BEING GIVEN TO BLACK AND BROWN COMMUNITIES**

PROTECT CHILDREN

- **CHILDREN ARE STILL GETTING HOSPITALIZED FROM COVID**
- **1 IN 10 ARE GETTING LONG COVID WHERE THE CHILD MAY BE EXTREMELY FATIGUED AMONGST A HOST OF OTHER SYMPTOMS FOR MONTHS OR EVEN FOR LIFE**
- **CHILDREN ALSO GET MULTISYSTEM INFLAMMATORY SYNDROME IN CHILDREN (MIS-C), CAUSING INFLAMMATION THROUGHOUT THE BODY**

SOURCES-

[HTTPS://CLEANAIRCREW.ORG/BOX-FAN-FILTERS/](https://CLEANAIRCREW.ORG/BOX-FAN-FILTERS/)

URGENCY OF EQUITY TOOLKIT | PEOPLE'S CDC (PEOPLESCDC.ORG)

[HTTPS://DOCS.GOOGLE.COM/DOCUMENT/D/1MYX-UIC-PZFQFR5VAIGWAMVKLSL4H28E6Y3YGZZDNKO/EDIT?USP=SHARING](https://docs.google.com/document/d/1MYX-UIC-PZFQFR5VAIGWAMVKLSL4H28E6Y3YGZZDNKO/edit?usp=sharing)