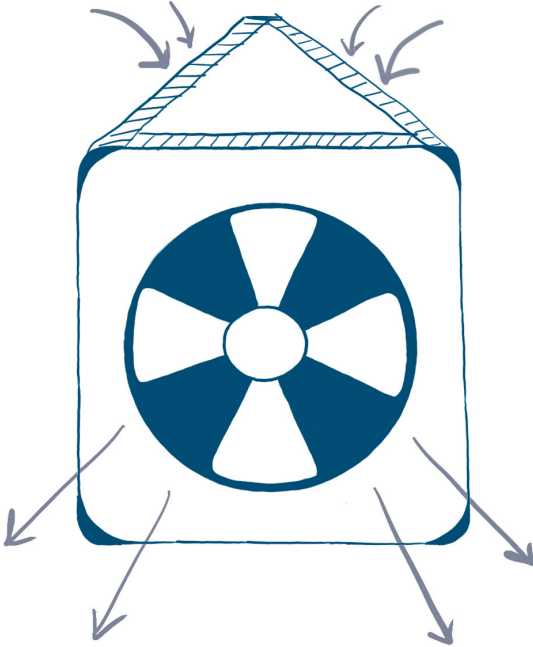


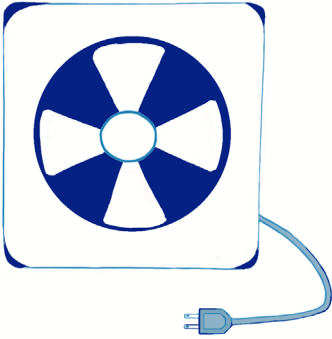
Build Your Own
AIR PURIFIER
for less than \$40



Protect Your Family
from Wildfire Smoke
& COVID-19

courtesy of the
Peninsula Democratic Socialists of America
peninsuladsa.github.io

EQUIPMENT



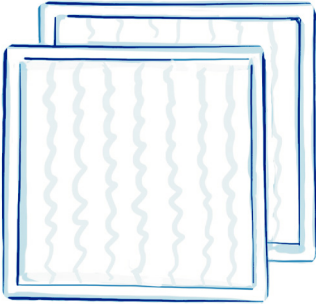
BOX FAN

20 × 20 inches
3-speed

cost: under \$20
buy: Target, Walmart



pencil

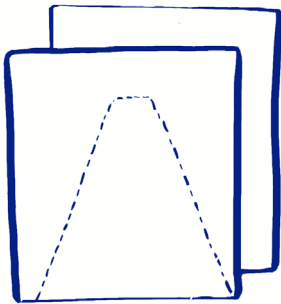
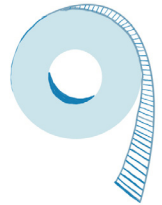


AIR FILTERS (2)

20 × 25 × 1 inches
rated MERV 11

cost: about \$9 each
buy: airfiltersdelivered.com,
Home Depot, Lowe's

duct tape



CARDBOARD (2)

at least 24 × 24 inches

cost: free
re-use packaging
from filters or fan



box
cutter

CHOOSE THE RIGHT AIR FILTER

- For wildfire season, choose MERV 11 (also known as MPR 1000, TO 1200, FPR 7). It filters smoke and smog, as well as dust and pollen.
- To also filter viruses like COVID-19, upgrade to MERV 13. Note: With a stronger filter, the purifier will take longer to clean a room, which will increase the energy cost of using it.

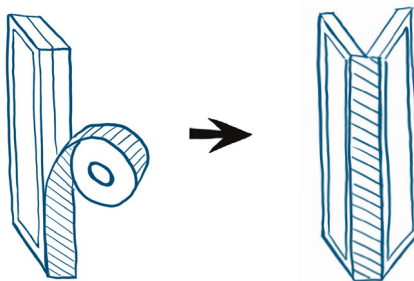
MERV 11

**MPR 1000
TO 1200
FPR 7**

MERV 8+
PET DANDER,
SMOKE, SMOG,
COUGH/SNEEZE

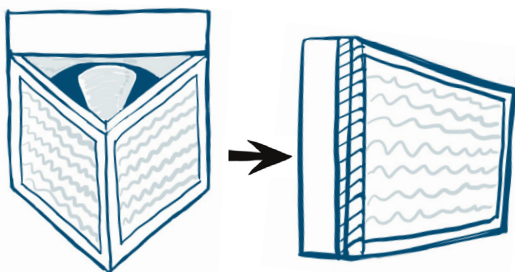
INSTRUCTIONS

Stack air filters together, with arrows pointing inward, in the direction of air flow.



Tape together one short side (20 inch) with a piece of tape so the filters hinge like a door.

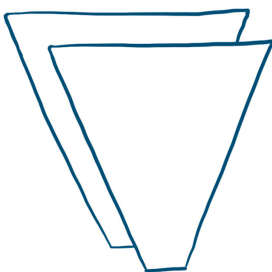
Put the hinged filters behind the box fan. Line up the outer edges of the filters with the sides of the back of the fan.



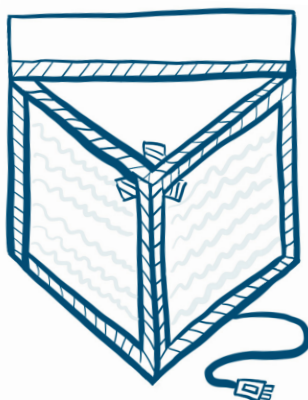
side view

Tape the filters to the fan with a piece of tape.

Place cardboard on top of the purifier. With a pencil, trace around the wedge-shaped open space between the filters and the fan. Repeat. Use box cutter to cut out 2 wedge shapes.



Tape a cardboard wedge to the top using three pieces of tape (one for each side). Repeat on the bottom. Use extra tape at the corner to make the seals completely air-tight.



*tape
power
cord to
one side*

Plug in and turn on the purifier. Start cleaning the air!

FOR-PROFIT POWER KILLS

Seven million people in the Bay Area rely on a dirty, dangerous energy system controlled by one private corporation: PG&E.

PG&E earns billions by overcharging us and by refusing to upgrade to clean, reliable energy.

But politicians won't hold PG&E accountable, not for wildfires or for blowing up San Bruno. Right now they're trying to shield PG&E from lawsuits and from the bankruptcy it deserves.

How can regular people change the system?

1. Protect our communities from unhealthy air. Hand out N-95 masks. Make air purifiers.
2. Demand elected officials oppose the PG&E bailout and support the Green New Deal.
3. Fight to make PG&E a worker-owned public utility that cares for people and the planet.

DEMOCRATIC SOCIALISTS FOR A

**GREEN
NEW DEAL**

JOIN US AT [DSAUSA.ORG/JOIN](https://dsausa.org/join)