

DIY INDOOR AIR FILTER FAN

WHAT YOU WILL NEED

20" X 20" ELECTRIC BOX FAN

The electric box fan and the air filter need to be the same size.

20" X 20" MERV 13 OR FPR 10 AIR FILTER

MERV 13 and FPR 10 are the ratings for air filters that can filter out smoke particles.

ONE 48" BUNGEE CORD

Or multiple bungee cords that can link together to make 48" un-stretched.

WHAT TO DO

FIND THE ARROWS

on the outside edge of the of the filter box. Find the backside of the electric box fan.

PRESS THE FILTER

against the backside of the electric box fan with the arrows pointing towards the fan.

WRAP THE BUNGEE CORD AROUND

the fan and the filter and hook the two ends together so that the filter is secured to the electric box fan.

TIPS

- Run the fan at least 15 minutes to clean the air.
- Close the windows and outside doors to prevent polluted air from entering the house.
- Make sure fan does not overheat- turn it off every 30 minutes to rest for approximately 15 minutes.
- Do not run fan overnight or while you are out of the house or sleeping.



youtube video demonstration available through
King County Public Health

<https://youtu.be/1FoM6xooSwc>



THE SUQUAMISH TRIBE

Office of Emergency Management

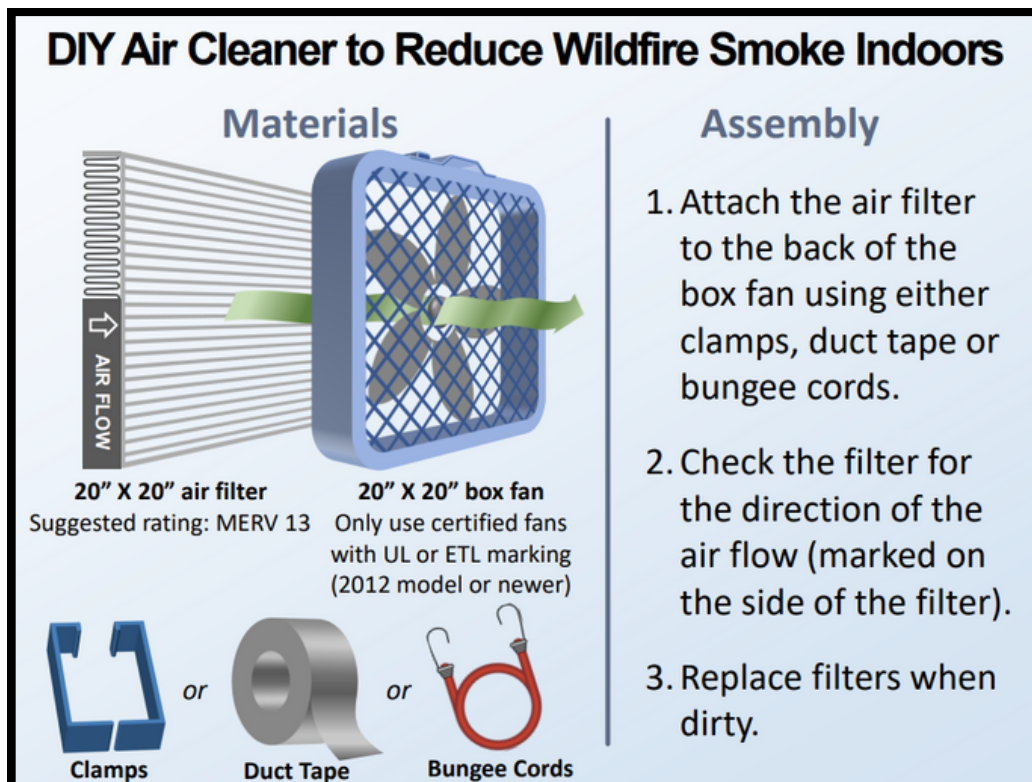
18490 Suquamish Way, Suquamish WA, 98392 360-598-3311

Indoor Air Quality

If there is an active fire in our area, or if the [Air Quality Index](#) indicates smoke levels are unhealthy and forecasted to remain there, you can create a clean room in your home to help reduce your exposure to smoke while staying indoors.

Anyone can benefit from spending time in a clean room during a wildfire smoke event. It may be most helpful for people who are at greater risk from the effects of smoke such as children, older adults, and people with heart disease or breathing problems.

A few items are needed to create an indoor clean room, a box fan, an air filter (rated MERV 13), and either duct tape or bungee cords.



DIY Air Cleaner to Reduce Wildfire Smoke Indoors

Materials

20" X 20" air filter
Suggested rating: MERV 13

20" X 20" box fan
Only use certified fans with UL or ETL marking (2012 model or newer)

Assembly

1. Attach the air filter to the back of the box fan using either clamps, duct tape or bungee cords.
2. Check the filter for the direction of the air flow (marked on the side of the filter).
3. Replace filters when dirty.

Clamps or Duct Tape or Bungee Cords

The diagram illustrates the assembly of a DIY air cleaner. It shows a 20" x 20" air filter with a green arrow indicating air flow from left to right. This filter is attached to the back of a 20" x 20" box fan, which has a green arrow indicating air flow from right to left. Below the materials list, three options for attachment are shown: blue plastic clamps, a roll of silver duct tape, and red bungee cords. The assembly instructions are listed on the right side of the diagram.