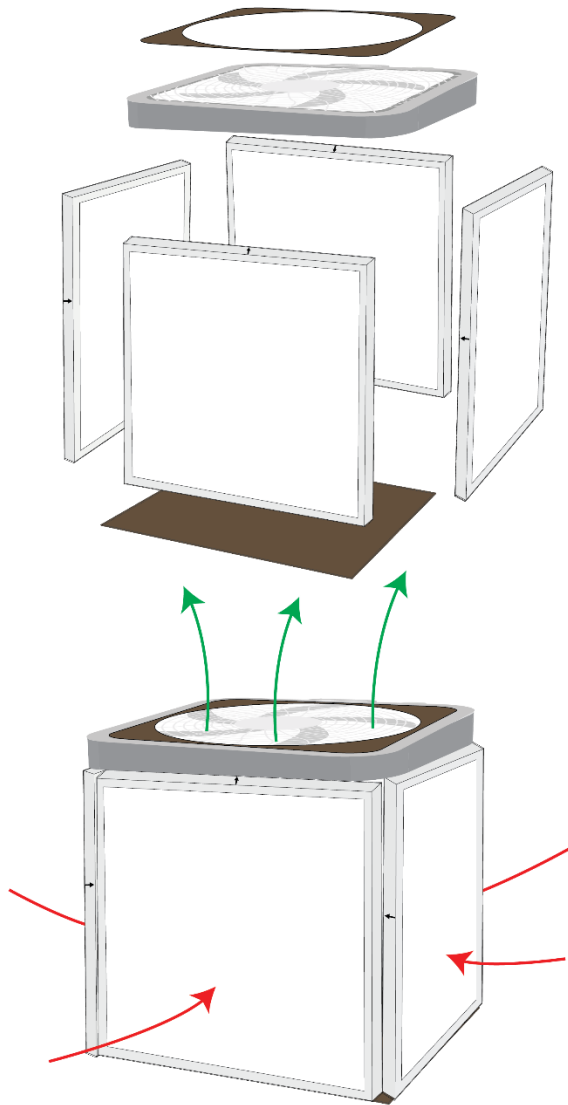


# How to make your indoor spaces safer:

# Build Your Own Air Cleaners



You can easily assemble air cleaners for a fraction of the cost of HEPA filters. This design, named the [Corsi-Rosenthal box](#) after the [engineers](#) who designed it, is well studied and can effectively filter SARS-CoV2 virus from the air. For optimal results, masks need to be worn by those indoors in addition to the protection offered by this air cleaner.

All you need is

- Duct tape
- A 20 inch box fan
- Some cardboard
- 4 MERV 13 filters

Step-by-step [instructions](#)

## Where to Buy:

Box Fans

[Home Depot](#)

[Lowe's](#)

[Home Hardware](#)

MERV 13  
Filters

[Home Depot](#)

[Home Depot](#)

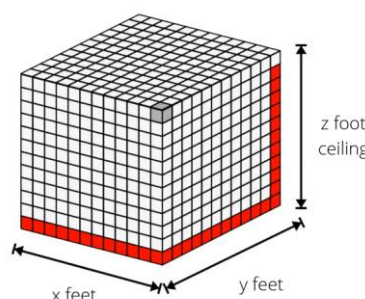
[Pure Filters](#)

## How Many Do You Need?

Assuming each box has a Clean Air Delivery Rate of [200 CFM](#) (cubic feet per minute) and you are aiming for 10 air changes an hour

Make sure to run each fan on maximum speed when assembled.

## Step 1: Measure the room volume (in feet)



## Step 2: Divide the room volume by 1200

Example: a 30x30x10 foot room is 9000 cubic feet. Divided by 1200, that is 7.5, rounding up, that's 8 CR boxes