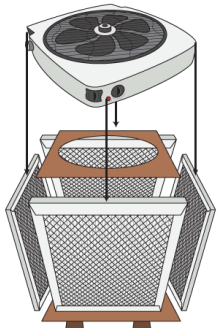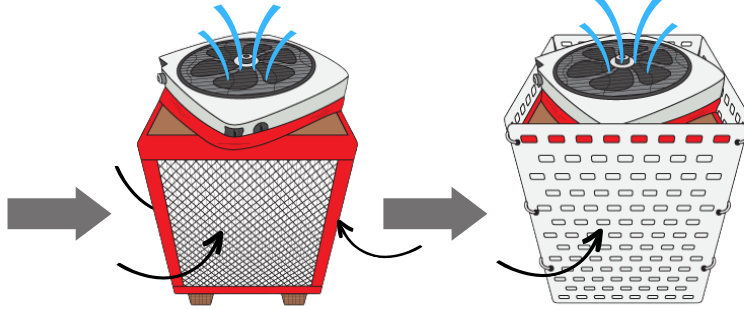# HOW TO BUILD A CORSI-ROSENTHAL BOX

The Corsi-Rosenthal Box is an affordable air-cleaning system made with simple materials. The fan pulls air through the filters on the sides and blows out clean air. It's proven to reduce exposure to airborne particles, including those containing the virus that causes COVID-19. The box also reduces the levels of other particulate pollutants and allergens. The UK version was adapted & tested by Stefan Stojanovic. This sheet is only intended to be a simple assembly guide. More detailed information is available in our other literature.
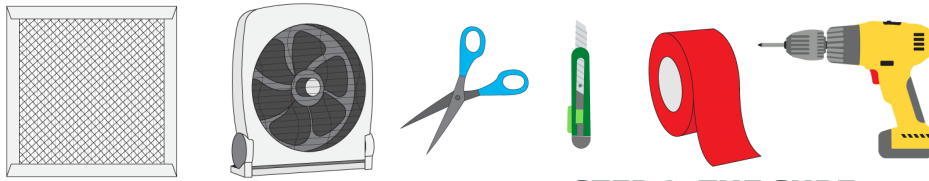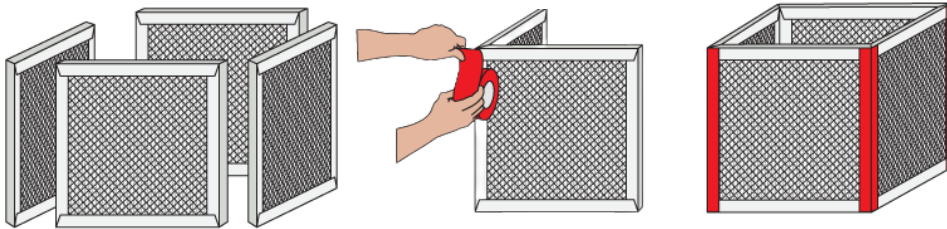
Adapted from an Illustration by Michelle Wong

- Filters can last up to a year used in a typical UK classroom/school hours.
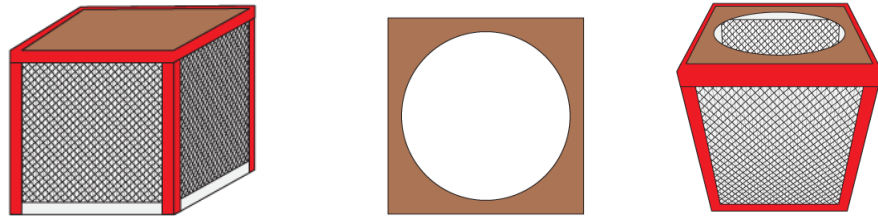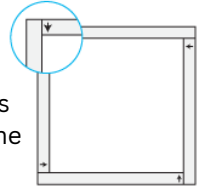- Keep away from walls and corners
- Fan should blow air upward

STEP 1: THE MATERIALS

- 4 filters: 3M MPR 1900
  (20" x 25" x 1" or 20" x 20" x 1")
- Vent-Axia 14-inch Box Fan
- Scissors, Utility Knife, Duct Tape
- Screwdriver (preferably electric)
- Ruler and Pen
- Materials for protective enclosure:
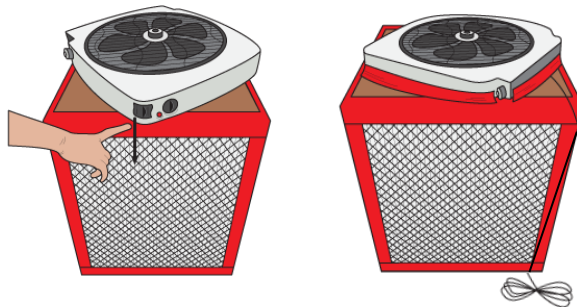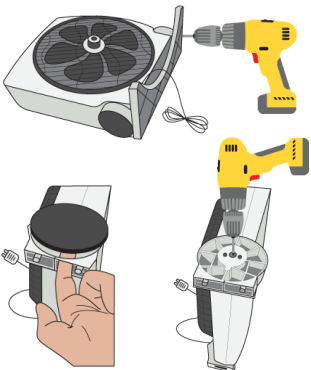 - 4 Ikea SKÅDIS pegboards 76x56 cm
  - PVC coated wire

STEP 2: THE CUBE

- Arrange the filters to create a symmetrical structure
- Ensure the arrows are pointing inwards
- Duct tape the four edges
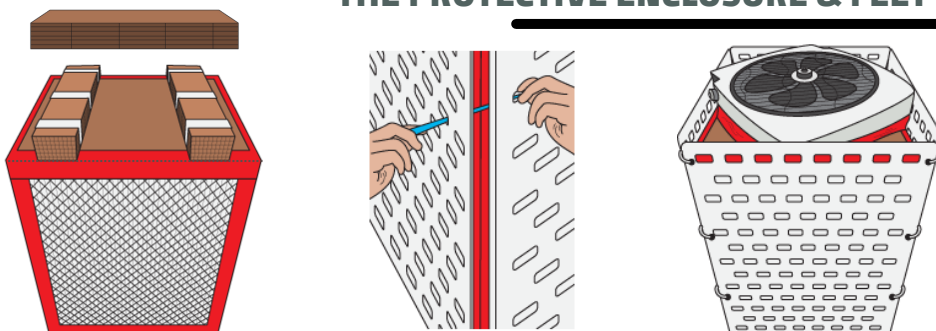- Vertical orientation of the pleats is preferred

STEP 3: THE BASE + SHROUD

- Cut both sides of the fan's cardboard box to a size of 21" x 21"
- Tape one side to the base
- Check step 5 for optional protective enclosure and feet
- Using a 20cm paper strip pinned at the centre, mark dots 1 cm apart on the other piece. Cut along the dots.
- Use two streets for extra strength
- Turn the box over and tape the shroud

STEP 4: THE FAN

- Unscrew the plastic base of the fan (electric screwdriver recommended)
- Pop off black caps and unscrew side circular component
- Position the box fan on top of circular aperture (45 degree placement)
- Ensure the corners of the fan are placed on the centre of filter panels
- The cord is fully taped to shroud and down the vertical corner
- Ensure all gaps are fully taped & sealed

THE PROTECTIVE ENCLOSURE & FEET (OPTIONAL)

- After step 3: Tape 5 sheets of the Ikea packaging at ends and middle to form two legs with a height of 10cm each
- Securely tape legs to the base
- After step 4: Using PVC wire attach two perforated panels in front of the CR box
- Fasten ties loosely at first, allowing some tolerance for best fit
- Position CR box into place and then attach the final panel

Illustrator: Marija Mladenović   Creator: Shiven Taneja