

**A strategy to dramatically lower the transmission of COVID-19**

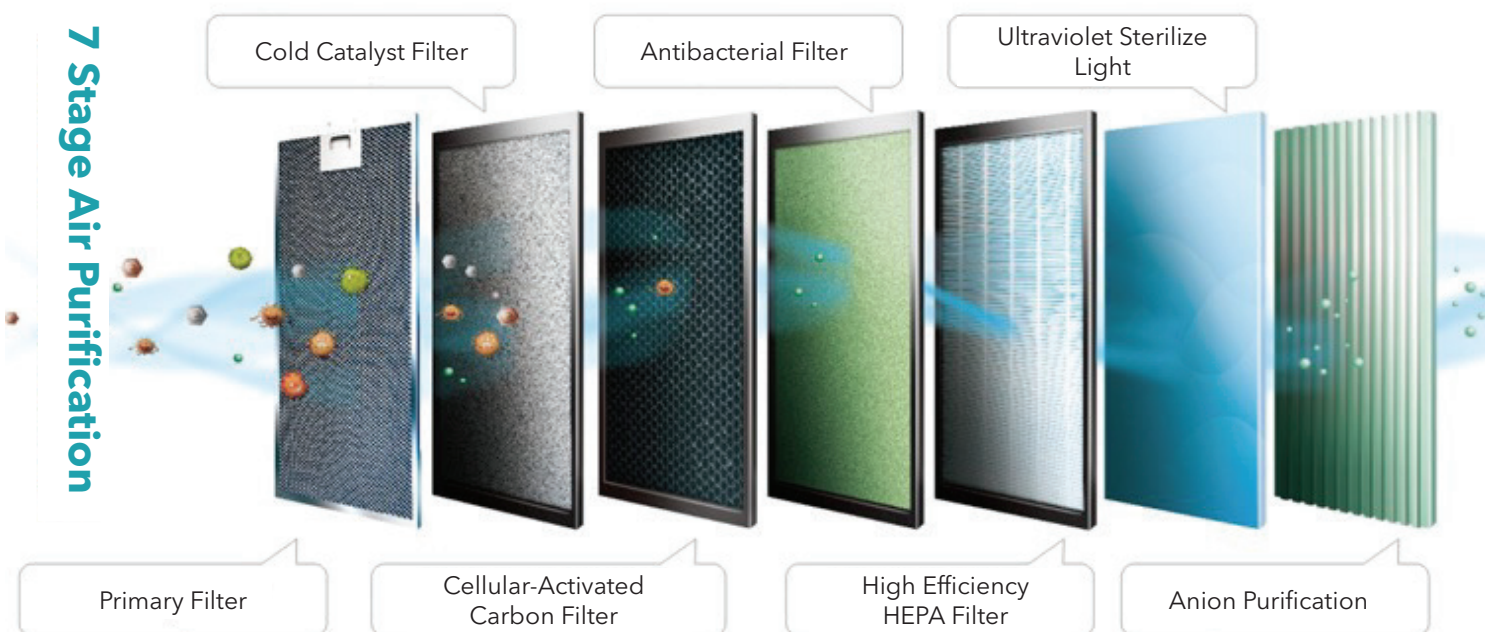
# The FD-42 Portable Air Purifier

The FD-42 Portable Air Purifier has multi layers of filtration to take out viruses such as COVID-19, Common Cold and Influenzas, however it can also deal with the likes of Odours - Dander - Formaldehyde - Pollen.

## PURIFICATION

For details on what each filter does P.T.O

### 7 Stage Air Purification

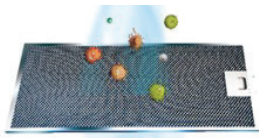


Purified, clean air exits



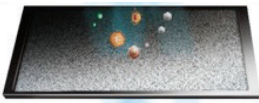
Polluted air enters through the intake located on both sides

## Each filter performs a specific task while enhancing the overall performance.



### Pre filter

The aluminum primary filter is there to take out 5 micron and above particles such as dust, dander, pollen and the like. It can be washed many times.



### Cold Catalytic Filter

The decomposition reaction of the cold catalyst does not require UV rays, high temperature, or high pressure. It is non-toxic, non-corrosive, and non-flammable. Under normal temperature conditions, the catalytic reaction can remove formaldehyde, benzene, xylene, TVOC and other harmful gases. The reaction creates water and carbon dioxide. It does not produce any secondary pollution. It is a safe and environmentally friendly product. This filter can be effective for more than five years.



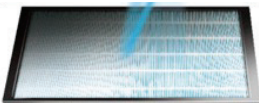
### Carbon Filter

The carbon filter is able to remove odours emanating from a wide variety of sources.



### Antibacterial Cotton Filter

The antibacterial filter is a precision filter trapping pathogens with a diameter of 5 microns and above and is able to kill or inactivate bacteria and viruses.



### HEPA filter

High Efficiency Particulate Air filters classification E11 has a minimum particulate collection efficiency of 99% for 0.3 micrometre particles. This enables it to remove from the air stream very fine particles such as smoke and pathogens.



### Sterilizing UV light

UV sterilization using 365 nanometres UV wavelengths lamps that can kill or inactivate a variety of airborne pathogens. Can be switched on/off independently.



### Anion Purifier

A large amount of anions are released into the air, which oxygen molecules then add to their outer shell to obtain a negative charge. It has an extraordinary ability to combine with positively charged floating dust, smoke, bacteria, and viruses. This makes free floating debris fall, thus purifying the air and the environment without harm to humans. These ultra fine particles are difficult to filter out with common mechanical equipment. Anions in the air have a special ability to capture these harmful substances. The smaller the size of the particle, the higher the capture rate. It is an effective way to eliminate these pollutants. Can be switched on/off independently.

## DATA

Rated Voltage; 220V - 240V.

Rated power: 85w

Rate frequency: 50Hz/60Hz.

Noise (low speed): ≤29.5dB

CADR 350: m<sup>3</sup>/h

Anion Concentration; 1000million/cm<sup>3</sup>

Applicable area: 24 - 42 m<sup>2</sup>

Weight: 9.8kg.

Dimensions: 400 x 200 x 600mm.

# FILTERS DIRECT

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