

UAP

urban air purifier

Enjoy the air. Now!

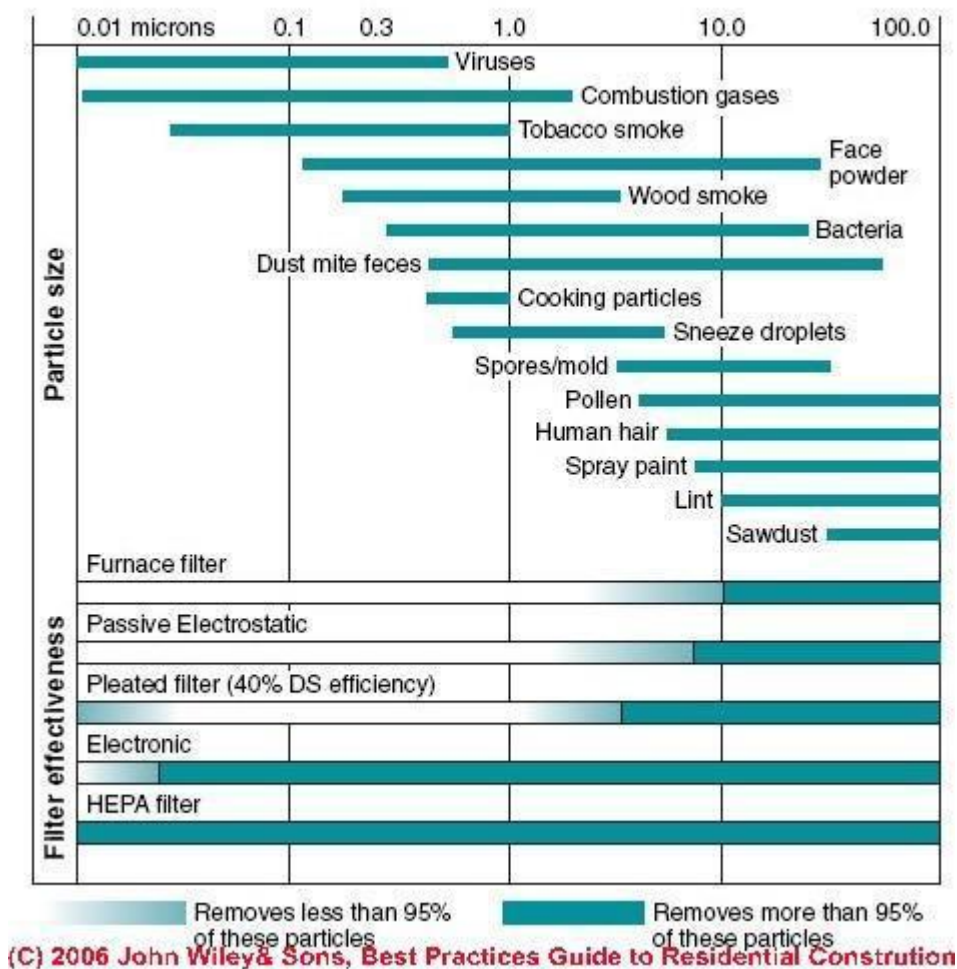
UAP AIR PURIFICATION SYSTEMS NOW
WITH ADDITIONAL CORONAVIRUS
FILTRATION



UAP Air Purification Systems now with additional coronavirus filtration

UAP manufactures a range of high performance, high throughput air purification systems. They are designed for use in the open air and in high and medium volume indoor spaces. They have just been modified to help combat the coronavirus pandemic.

This table gives the dimensions of a number of particles, from the smallest viruses up to sawdust.



Viruses do not fly alone through the air. They are always attached to some particle. And particles are heavier than air. For that reason, the recommendation is not to be closer than 1.5 meters to another person.

The particle, which is also very small, can be a simple water drop from your mouth when you cough, sneeze or even speak.

Effective masks are type FFP3. This means they are filtering particles down to 0.6 microns with an efficiency of 90%. Just on the limit for viruses. It is not possible to use masks with smaller meshes, because they would be impossible to breathe through.

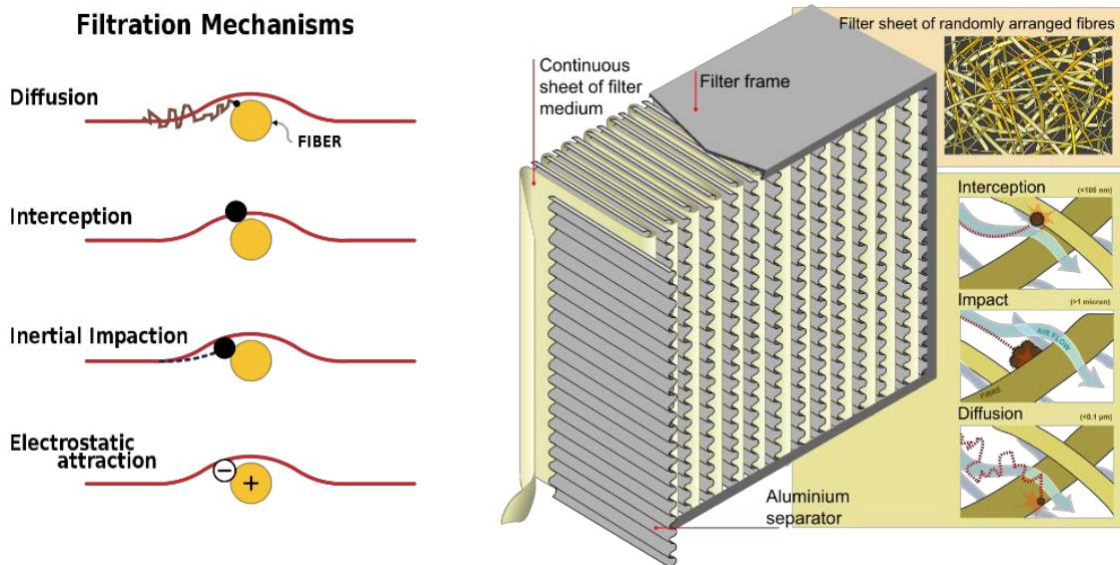
Using a cheap mask with a protection lower than FFP3 makes no practical sense.



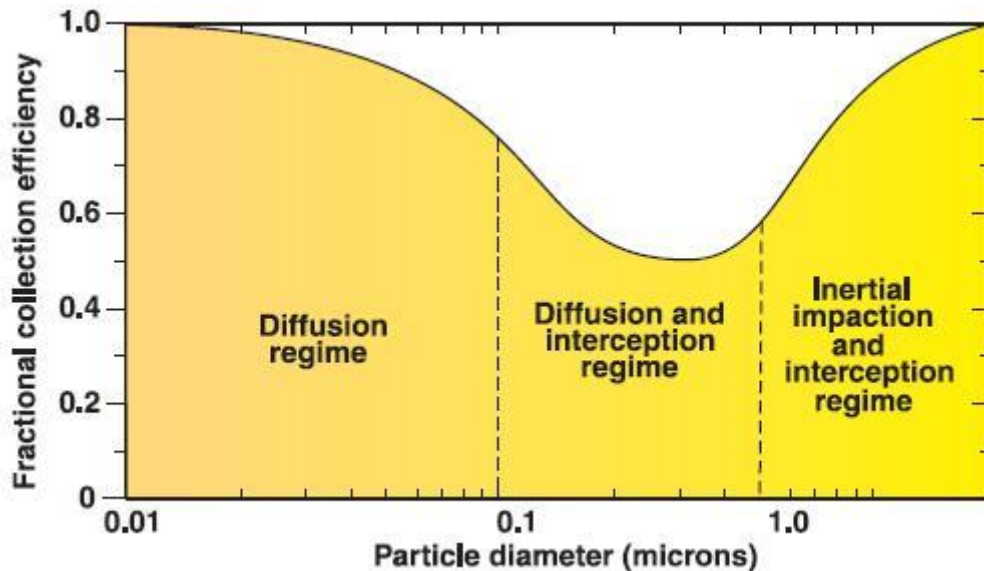
A standard UAP air purification system has a particle filter type F9. That means it is able to block particles down to 0.5 microns with an efficiency of 95%, and down to 0.12 microns with an efficiency of 60%. The volume of air filtered by a UAP 2000 is equivalent to the use of 6,600 masks.

In the new UAP model adapted to combat the coronavirus, we have added an additional HEPA (High Efficiency Particle Arrestance) or ULPA (Ultra Low Particle Arrestance) filter.

The HEPA-ULPA filter acts to block particles using four mechanisms: Diffusion, Interception, Impact and Electrostatic attraction.



The efficiency in a HEPA-ULPA filter depends of the size of particles.



In order to improve our filtration, we have added a second HEPA filter. With this configuration the filtration acts down to 0.01 microns.

We can do that in our systems because the fan has enough power to move the air through both the HEPA-ULPA filters, and the speed of the fan can be adapted to the needs of the filters.

If an individual used a mask with filters like these, they would be unable to breathe.

Additionally, we are adding a UV-C (Ultraviolet class C lamps) stage with a wavelength of 200 nanometers which is directly attacking the DNA of bacteria and viruses, thereby breaking them down.

Our objective is to deactivate the bacteria and viruses captured by the filters and to neutralize them permanently.



UAP devices with this configuration are externally equal to standard models.

Screen is also optional.

These units can be easily transformed in a standard unit for gases pollutants. This process can be done in the same place where the UAP is installed.