

An Air Purifier for a Breath of Fresh Air

One of the most important elements for the survival of human beings is air. Air is a vital component of a very complex set of respiratory functions. This air must be free of contaminants that could cause a potential health risk. Air that contains particles of dust mites, pet dander, pollen and mold spores can cause asthma, allergies and respiratory illnesses. The Environmental Protection Agency estimates that indoor air is 70 times more contaminated than outside air. Airborne chemicals from flooring, insulation, paints, cleaning products and other building materials give off dangerous chemical fumes. As a result, homes and offices could potentially increase the likelihood of an allergy or respiratory problems. In order to alleviate these risk factors, it is necessary to utilize a high efficiency air purifier. A high efficiency air purifier circulates air through filters that trap toxins, and allergens, and removes them from inside air.

An air purifier works by drawing in dirty air through an inlet vent. Air then passes through a prefilter which traps large particles, then passes through a carbon filter which captures particles and reduces gases and odors. The air then passes through a filter made of tightly woven fibers to capture the smaller particles. This filter is known as a HEPA filter, which is an acronym for high efficiency particulate absorbing. These filters can absorb particles as small as 0.3 micrometers. Some units have electronic ionizers which further capture smaller particles, and particles that have escaped the previous other filters. A fan then recirculates the filtered air back into the room.

Health hazards from polluted indoor air at home or at the work place have increased the incidence of respiratory illnesses. The use of an air purifier could play a significant role in reducing these risks for healthy individuals, as well as individuals with existing conditions. Purifiers minimize contaminants in the air effectively, before they can cause harm to human tissue. It is important to note that air purifiers are only a part of a bigger solution, keeping a clean living and working environment is absolutely essential.

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