

What suggests the market for air purifiers?

Humidifiers - Humidifiers are used to increase the humidity in the rooms. These devices are functional for the environment and the very dry regions, may help to maintain the level of moisture necessary for the proper functioning of the body, while avoiding excessive irritation caused by drying of the mucous membranes. Taking into account the positive side, there are some limits to reveal about these devices because the water tank of the air humidifiers may be a source of proliferation of fungi and bacteria and thus of environmental contamination. - Dehumidifiers - Dehumidifiers are used to decrease the moisture in the air. They may have some role in the reduction of micro-organisms as bacteria and fungi prefer a moist environment for their growth. But besides being cumbersome, expensive and with high energy consumption, dehumidifiers have some other drawbacks: the collection tank of water may itself be a source of growth for micro-organisms. - Ultraviolet Rays - Ultraviolet radiation cause genetic alteration of cells of the microorganisms causing the inactivation and death. - Must be made a few comments: - There are studies that show that the genetic alteration of micro-organisms induced by ultraviolet radiation may, instead of killing them, the germs mutate to become super-resistant to drugs and environmental conditions; - You must be very careful with the armor of equipment that should be tightly closed to prevent radiation leaks that may contaminate the person attending the environment damaging the cells and causing them gradually in the long term serious health problems; - There are high costs because these devices use lamps that to be effective, need to be replaced very frequently. - Filters - Used to reduce contamination, the filters have a good effectiveness in capturing the larger particles. There are also filters the absolute EPA and high efficiency are able to assume very small particles, smaller than 0.3 microns, we should consider that: - Viruses and bacteria are much smaller and can not be retained; - these technologies can have problems in the provision and maintenance, if not installed properly can form cracks in the walls around the filter allowing the 'air passages without being filtered; - In the filter are considered the microorganisms that it continues to proliferate, so we need a replacement or frequent cleaning to prevent the filter itself is the source of contamination; - Replacement of the filter must be very carefully considered contaminants because they can not return to disperse into the environment. - Ionized - During the taking of the particles ioniser free ions (electrically charged), that are connected to airborne particles, according to the principle of attraction between electric charges of opposite sign (as we can extend anywhere solid surfaces: walls, objects , tables, and at times our own body). - The main downside of this technology is the emission of ozone. This gas is extremely toxic and is produced as a residue from the development of ion. The danger of ozone is that this gas is capable of corroding the lung tissue and is presumed to be in some cases related to tumors with vocal cords and larynx. - Purifiers - They are made by a fan and filter unit comprises a mechanical filter, an electrostatic filter and an ioniser. The air purifier down pollution inside the premises: smoke, dust, etc. - The ioniser inside the machine restores a fair relationship between the positive and negative ions, producing a stream of negative ions identical to those generated naturally, for example, by a cascade of a stream. And 'demonstrated that the negative ions have a beneficial effect on the health and well-being. - Sanify to saturation with chemicals - This type of environmental exploits the properties of certain chemicals (which may be synthetic or natural) of sanificare environments through an evaporating unit or course, and consequently they saturate the environment. - However the present limits are: - The compounds are highly volatile and thus the evaporation occurs in a short time. - Involves a daily maintenance - They cost continues - I am not free from side effects and allergic-type sensitization to chemicals used. - How to evaluate the reliability of an air purifier? - When you buy an air purifier you should consider many aspects. - Particular attention also needs to be placed on the technical characteristics and performance of the tests: - a. Check if the tests were carried out in real environments such as offices, rooms, bedrooms, banks, libraries, hospitals, etc.. Tests carried out in simulation as in small rooms may be biased and questionable. - b. Check if the institute is credible and if you have complete documentation of the experimental reports. - c. Check whether the equipment used in the test is similar to what is sold. - d. Check if you used a device suitable for aspiration of samples of air, as currently recommended for the verification of quality.

About the Author

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