

One Pass Filtration Efficiency OPFE Vs CADR. Who's the best

There are 2 different kinds of air purifier performance always be emphasized by manufacturer on market, "One Pass Filtration Efficiency OPFE)" and "Clean Air Delivery Rate CADR". OPFE emphasis the machine can filter out how many % of pollutants e.g. dust particles when passing through the filter or machine in One Times, e.g. OPFE reach 99.xx...%. CADR emphasis the machine can provide how much clean air into the area included filter out how many % of particles (dust, pollen and smoke) remove within how long time and at how max. size of the area can effective with.

User always can not easy to define which one is the best on market, we can not find out any comparison between these 2 theory, then how can we to select the best air purifier for us?

Who's the best?

The answer is: why I want to buy an air purifier? Then, how we will use the air purifier, also, pls. think about how we are breathing daily?

It is reasonable and can be understand why a hospital user always just to evaluate an air purifier's OPFE for ICU or SARS ward in hospital, they need to minimize the chance of cross-contamination happen. Basically, the machine in such kind of area is nearly just design for a personal use only, the machine service area capacity will never be concerned in such kind of case. To get the high OPFE result, the filter must be design with high quality firstly, but such high quality filter design always will decrease the air flow rate delivery of the air purifier so much and make the machine just can only be effective for small & small area only.

The reasons is under our daily actual environment e.g. room or office are never fully closed or isolated from outside, or the air conditioning system will also delivery pollutant into the indoor continuously, if the air purifier delivery the clean air volume can not compensate or more than the pollutant air entry inside or bacteria growth up rate inside the room, then the machine can never really purify the indoor finally. Now, will you still want to use the air purifier with only high OPFE performance in your room or office, you're ready to carry such machine along with you to go to anywhere despite your daily activity area is just within your bedroom? So, which method is the best is depends on how, why and where you use the machine. Actually, high OPFE machine should be suitable for some critical case, area & needs only, such performance can not suit for our daily actual environment and purpose. Machine with high clean air delivery capacity must be most of the common user consideration point firstly.

