

## AIR PURIFYING OR FRESH AIR

Which is best for managing virus-contaminated aerosols?

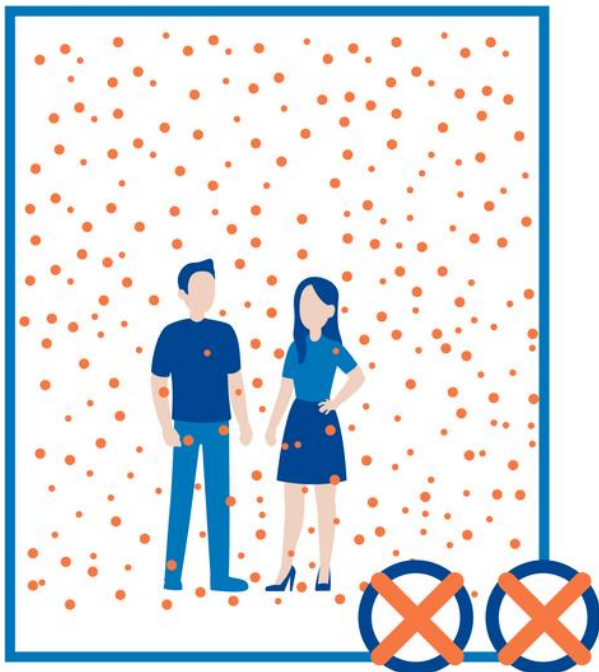
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## AEROSOLS: THE MAIN CARRIER FOR THE CORONAVIRUS

When people breathe or speak in closed rooms, tiny particles of liquid, referred to as aerosols, collect in the air. These aerosols can then transport the viruses. According to the Robert Koch Institute, this makes them one of the main carriers of COVID-19, because virus-contaminated liquid particles can often remain suspended in the indoor air for hours. But what best helps against this concentration of viruses in closed rooms?

## WHAT HAPPENS IN CLOSED ROOMS WITHOUT VENTILATION?

Without ventilation



The aerosols distribute themselves throughout the room within a short time period. If someone is infectious, the virus load in the room continuously rises.

This also increases **the risk of infection** to others.

## WHY IS VENTILATION FROM OPENING WINDOWS INADEQUATE?

Window ventilation



Many rooms have too few windows for an adequate room air change rate.

Even under ideal structural conditions, wind and a large temperature difference between indoor and outdoor air are necessary for the air to be exchanged really effectively.

In winter, regular ventilation has a **noticeable effect** on the indoor



climate and thus also on heating costs.

## HOW CAN AIR CONDITIONING SYSTEMS INCREASE THE RISK OF INFECTION?

Air conditioning systems without fresh air, without filters, or with only inadequate filters, do not reduce the virus load in a room.

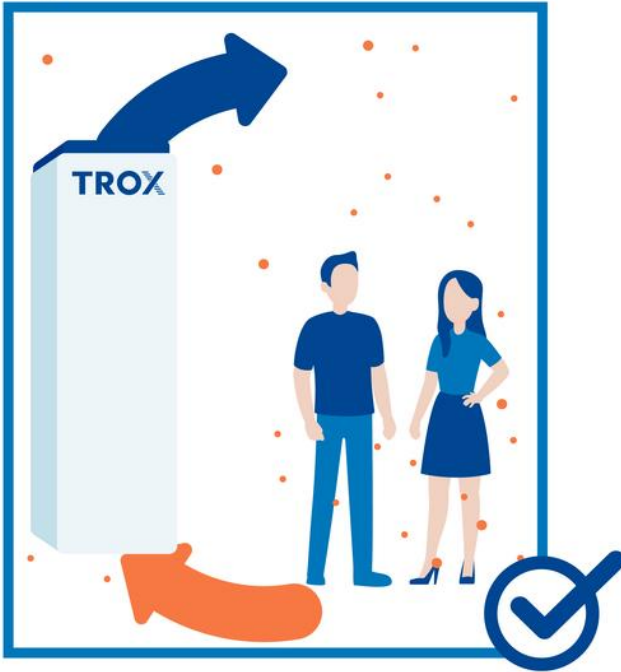
Under certain circumstances, they may even spread viruses more quickly in the space through air movement.

„Room air conditioner“ without filtration



## HOW CAN THE VIRUS LOAD BE REDUCED IN ROOMS WITHOUT ADEQUATE VENTILATION?

Air purifier



Air purifiers with HEPA filters can significantly reduce the virus load at high air flow rates.

However, the indoor climate cannot be regulated by this.

## WHY IS MECHANICAL VENTILATION SO EFFECTIVE?



Modern ventilation systems continuously replace stale air with fresh air.

The virus load, and thus the risk of infection, are reduced.

In many systems, humidity and temperature can be regulated to create a comfortable climate for people.

In addition, the continuous supply of fresh air keeps unpleasant substances such as CO<sub>2</sub> at the lowest possible level, which has a very positive effect on concentration, learning effectiveness, productivity and health.



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