



#### What does the SilentCare have that other air purifiers do not?

- Our SilentCare has a volume flow of 600 m<sup>3</sup> per hour or 900 m<sup>3</sup> per hour in the second stage, which ensures the required air exchange of 5 to 6 times per hour for many rooms.
- The low noise level, which corresponds to a maximum of one printer, is significantly quieter than the volume flow in a normal office.
- The separation efficiency of viruses, bacteria, droplets and particles (pollen) is extremely high at 99.995 % (according to DIN EN 1822 a HEPA Filter H14)
- Many devices have an extreme air draft, which is unpleasant and can lead to illness. Due to our all-round radiation of the air, we have a low air movement which is very pleasant. The relevant values of DIN ISO 770 are complied with.
- The size is quite compact for a device with this air performance. It can be moved easily in the room due to 5 rollers or can be easily moved to other floors due to the low weight of approx. 35 kg, it can be easily transported to other floors.



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## The advantages

- Commissioning is then once again child's play, plug into the socket and switch on („plug-and-play“).
- To access the second power stage, simply set the toggle switch must simply be set to position 2.
- Due to the large filter area, the filter service life is extremely long extremely high compared to the competition. With an operating time of 8.5 hours a day, 7 days a week, 2 years are normal, which corresponds to approx. 6000 operating hours. Here this results in lower operating costs. Competitors e.g. specify filter element change intervals of 750 hours.
- The electricity costs are also very important for the operation. In the 600 m<sup>3</sup> stage approx. 40 watts per hour are consumed which corresponds to a low-light 40 W incandescent bulb. Electricity costs are approx. 0.1 Euro per 8 hours.
- In expensive filter units often use electret fibers as filter material. They have the disadvantage that with increasing load their separation efficiency decreases, because the electrical charge is shielded by the separated dirt. The SilentCare improves its collection efficiency with increasing load, since it does not use electric charges for separation and works only with the finest structure of the filter medium.
- In the case of electrostatic precipitators, separation also deteriorates over time, because here, too, the dirt on the separator plates shielding takes place. These filters can produce ozone, which is very harmful to health. This ozone must be removed in filters. A necessary, regular replacement of these activated carbon filters will cost additional money.
- Filters that work with ultraviolet light (UV light) have the disadvantage, that they must be very well encapsulated to prevent harmful UV light from escaping. In the case of an effective radiation dose, it must be assumed that ozone is also produced. This ozone must in turn be rendered harmless.

Let's look at the air filters that cost a few hundred euros on the internet or in hardware stores

- Most devices are advertised with HEPA filters without indication of the real separation efficiency according to a standard. One speaks of „very quiet“ without a specification of the real volume in decibels A. Often larger clearances also indicated. This makes the devices quiet on paper, but not in reality. The volume flow rates are often so low that in a normal room size just one air exchange per hour takes place. That is far too little.
- These devices usually have a very small air outlet and therefore a strong air jet, which is not only very unpleasant, but also tempts the user to restrict the air flow even more. This reduces the additionally worsens the virus reaction.
- The often advertised activated carbon filter inserts are of the capacity of very small, so that the effect is exhausted after a few hours. Simply explained if a kilogram of good activated carbon costs 15 euros, a filter element that costs 25 euros can not contain much.
- The electrical power consumption of many devices is rather poor in relation to the air performance (volume flow). Example: 0.2 watts per cubic meter of air of an „inexpensive air purifier“ compared to 0.06 watts per cubic meter of air of the SilentCare. This corresponds to a factor of 3 and means that the „inexpensive air purifier“ is three times as expensive to operate.

The SilentCare has an optimum price/performance ratio in the following categories

- \* technology
- \* handling
- \* volume
- \* separation efficiency, life-time
- \* energy consumption and design

## Your Contact

FILCOM GmbH  
Riedstr. 17/1  
D-73760 Ostfildern

Phone: +49 (0) 711-4413322-0  
Fax: +49 (0) 711-4113322-22  
Mail: info@filcom.de

[www.filcom.de](http://www.filcom.de)

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