

Summary of Volvo Cars' air purification features



Volvo Cars provides industry-leading premium air purification features, including a combination of technologies and software, to offer its customers the best possible air quality inside their cars.

VOLVO CARS' AIR PURIFICATION TECHNOLOGIES

Volvo Cars' air purification technologies include the Advanced Air Cleaner (AAC)*, the PM 2.5 sensor, and an advanced filter.

The Advanced Air Cleaner is a fully automatic air purifier that prevents contaminants in the form of small airborne particles and exhaust gases to enter the cabin through a cabin filter.

Together with an advanced filter, the AAC helps removing up to 95 per cent of all PM 2.5 particles in the incoming air, the most hazardous of particles.

- Particle charging in the ionising unit where particles entering the filtration system are charged by ions emitted to the air flow.
- The particles are trapped in a mechanical filter made of synthetic fibres.
- The filtration force is mostly mechanical for particles > 1 µm whilst particles < 1 µm are removed with both mechanical and electrostatic forces.

The Advanced Air Cleaner also comes with a sensor, launched globally in 2020 as a world-first feature in Volvo cars, that measures PM 2.5 levels inside the cabin.

The AAC has been tested and demonstrated the following:

- Removes up to 99.9 per cent of pollen allergens from the air.
- Tested on birch, grass and weed pollen.
- Maintains high performance even when the filter is loaded with dust.
- Contributes to a healthier in-car environment.

CERTIFIED asthma & allergy friendly® by Allergy Standards Limited (ASL)

Allergy Standards Limited (ASL) has CERTIFIED Volvo Cars' Advanced Air Cleaner filter asthma & allergy friendly®. The independent asthma & allergy friendly® certification program helps consumers identify products more suitable for people with asthma and allergies. The program performs physical and chemical testing on products to ensure they reduce allergen exposure and limit irritants and other pollutants in the air.

Anti-virus test results by OFI

The independent Austrian research and testing institute OFI has recently tested the Advanced Air Cleaner (AAC) against Phi6 and MS2 viruses. Results show that the Advanced Air Cleaner can remove more than 97 per cent of airborne viruses that try to enter the cabin via the air filter and reduce existing viral rates in the cabin by up to 95%

OTHER AIR PURIFICATION FEATURES

In addition to the advanced air purification technologies, Volvo Cars also offers a set of features to help its customers keep track of the air quality and pollen levels and purify the in-cabin air.

With the in-house developed **in-car app Air Quality****, customers can activate the air purifier in one click and keep track of the following values in the centre stack display:

- the actual in-cabin air quality level.
- the outside air quality levels in the surrounding areas including PM 2.5, PM 10, NO2, O3, SO2, and CO.
- the outside pollen levels in the surrounding areas of grass, weed and various types of trees.

Note to editors:

**The Advanced Air Cleaner is available on the 60 and 90 series models. The 40 series models come with a separate offer including a sensor and filter. Availability of technologies and functions may also vary between markets and car variants.*

***The in-car app is available on all new models built from Q2 2022. Availability may vary between markets and car variants.*