

TRAVELER™

The HEPA air cleaner for a healthy climate in your car

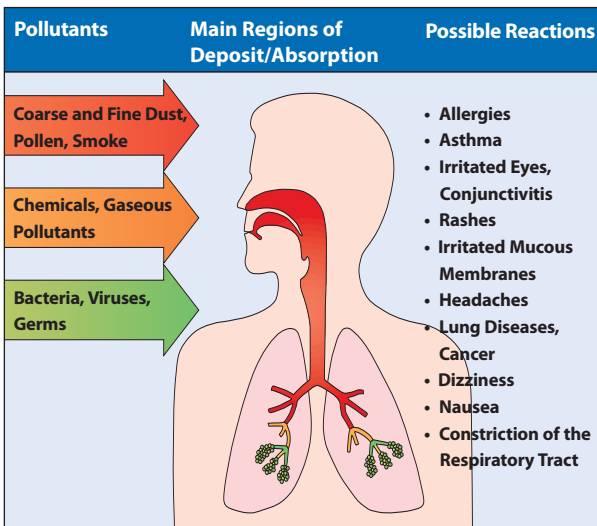


Clean Air for a Healthier Life

It is often assumed that pedestrians and cyclists get the worst of traffic pollution. In fact, those in greatest need of protection are car drivers and their passengers.

Studies from across Europe and the United States agree that drivers and passengers in motor vehicles are travelling in a "tunnel" of pollutants, with exhaust fumes from vehicles in front ending up in the vehicles behind. Cars offer little or no protection against the pollutants generated by road traffic*.

An even more alarming conclusion was drawn by a Pan-European study**. It found that three times as many people die of the effects of traffic polluted air than as a result of traffic accidents.



Is protection possible?

How can we protect ourselves and our passengers from air pollution within a vehicle? The answer is provided by a small, yet powerful and highly efficient air cleaning system for vehicles - the icleen® TRAVELER.

* Road users' exposure to air pollution, UK Government, Transport and the Regions, Nov. 1997

** The Lancet, Volume 356, Issue 9232, Pages 795 - 801, 2 September 2000

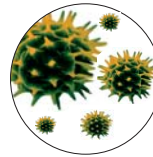
Advanced Technology

With a height of merely 19cm and a weight of 2 kg the icleen® TRAVELER is one of the smallest air cleaners worldwide with real HEPA (High-Efficiency-Particulate Arrestant) filter technology. This innovative application of high quality components guarantees a reliable filter performance dealing even with the tiniest particle pollutants such as combustion particulates.

Reduce the Following Pollutants:



Particulate matter (PM₁₀, PM_{2.5}) is a complex mixture of extremely small particles and liquid droplets that are made up of a number of components, including acids, organic chemicals, metals, smoke and haze particles. The small size of these particles is directly linked to their potential for causing health problems. Once inhaled, they can affect the heart and lungs and cause serious health effects.



Pollen and dust can trigger hay fever and asthma in allergy sufferers. This can be particularly dangerous while driving.



Even fairly low levels of summer smog and ozone can lead to respiratory problems and throat irritations. Many of the worst troublespots are in rural areas.



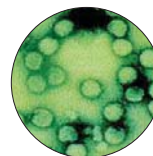
Pet allergens are found mainly in saliva and skin of cats and dogs. When the allergens are inhaled, they can lead to allergic reactions within the respiratory tract.



Cigarette Smoke contains thousands of chemicals and particles that can irritate the mucous membranes, and lead to acute and chronic diseases.



VOCs - volatile organic compounds such as benzene and some hydrocarbons emitted from vehicles and industry can be carcinogenic.



Microorganisms such as bacteria and viruses can trigger a wide spectrum of infections from influenza and tuberculosis to legionnaire's disease and SARS.



Inside the icleen® TRAVELER™

1. Washable pre-filter
2. HEPA-Filter (99.97% efficiency at $\geq 0.3\mu\text{m}$)
3. Integrated gasket
4. Protective grille for HEPA-Filter
5. Activated carbon fleece (*optional: activated carbon cartridge*)
6. Two fan speeds
7. Powerful efficient fan

Filter Efficiency and Performance

Despite its small design, the system is extremely powerful. A filter efficiency of more than 99.97% for particles ($0.3\mu\text{m}$ and larger) makes the icleen® TRAVELER an effective weapon against street dust, diesel soot, pollen, bacteria, viruses, spores, pet allergens and smoke particles.

With an air delivery of up to $60\text{m}^3/\text{h}$ the system will filter the average volume of a vehicle up to 25 times an hour.

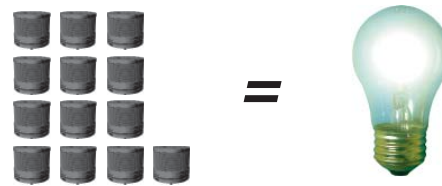


Areas of Application

With the seat belt clip and the car adaptor, the icleen® TRAVELER can be connected to the cigarette lighter of virtually every vehicle, yacht or caravan.

With the optional 230V adaptor the icleen® TRAVELER can also be plugged into a wall socket to provide healthier air in smaller indoor environments such as hotel rooms or offices.

Ultra Low Energy Consumption



The icleen® TRAVELER consumes 13 times less energy than a 60 Watt light bulb.

3-Stage Filtration

1) Washable Pre-filter

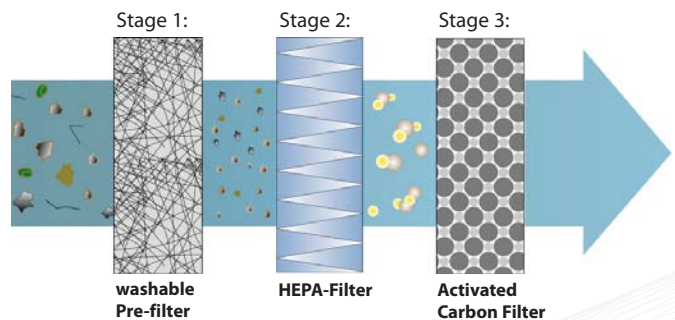
The pre-filter retains coarse dust and fibres.

2) HEPA-Filter

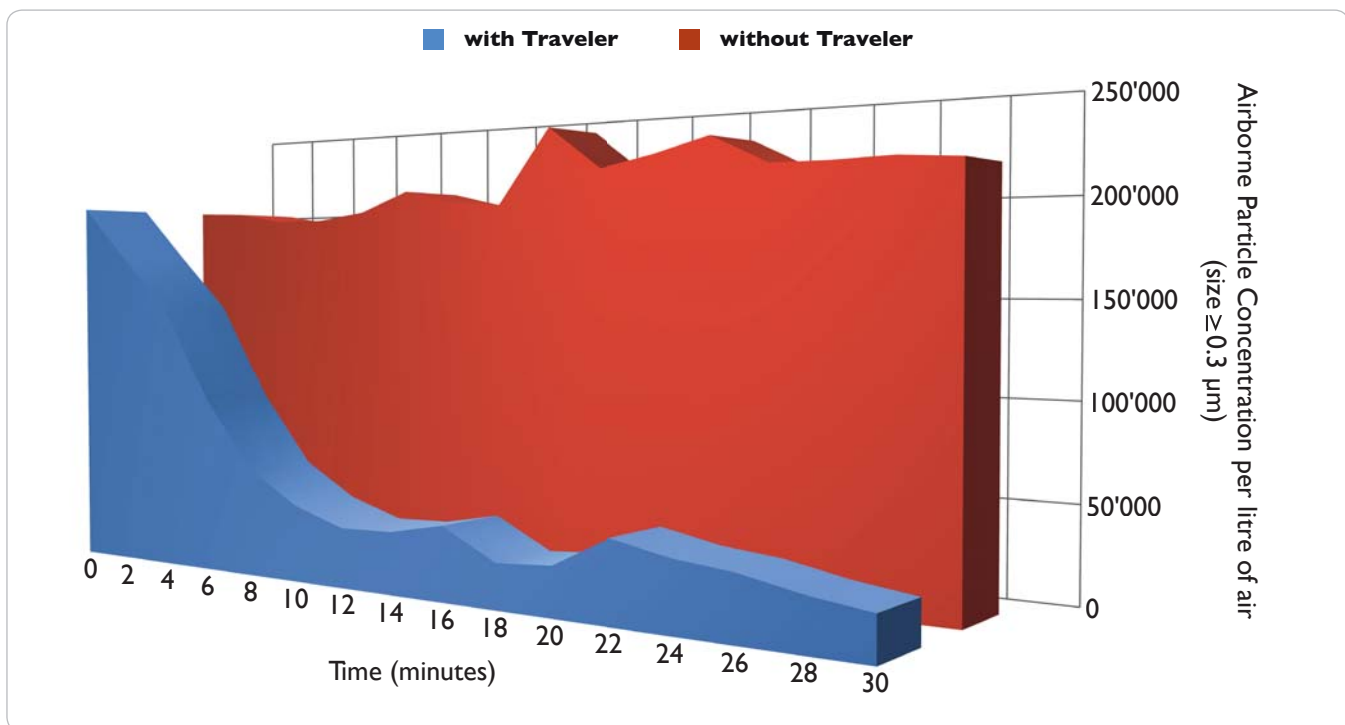
This high-efficiency filter retains PM₁₀, PM_{2.5}, diesel soot, pollen, bacteria, viruses, spores, pet allergens and smoke particles with an efficiency of up to 99.97%.

3) Activated carbon filter

Reduces gaseous pollutants and odours caused by cigarette smoke or polluted outside air.



Particle Reduction Within the Vehicle



Contents and Accessories

Standard Accessories

- icleen® TRAVELER Air Cleaner
- Adaptor for Vehicle (12 Volt)
- Activated Carbon Fibre Filter
- 2 washable Pre-filters
- Seat Belt Clip



Optional Accessories

- Mains Adaptor (230V/50Hz)
- Activated Carbon Cartridge (approx. 50 g)



Technical Specifications

HEPA-Filter

Efficiency: $\geq 99.97\%$ @ $0.3 \mu\text{m}$
Filter Surface: 1.6 m^2

Material/Colour

Steel (powder coating)
dark grey

Average Filter Life Time (approx.)

Pre-filter	1-2 years
Activ. Carbon Fibre	6-12 months
Activ. Carbon Cartr.	9-15 months
HEPA-Filter	2-3 years

Dimensions/Weight

Diameter: 22 cm
Height: 19 cm
approx. 2 kg

Fan Motor

- German Quality Motor
- Designed for continuous operation

Energy Consumption

max. 4.5 Watt

Air Delivery (with filters installed)

Speed 1: $30 \text{ m}^3/\text{h}$
Speed 2: $60 \text{ m}^3/\text{h}$

Warranty

2 years (without filters)

Technical specifications subject to change without prior notice

Your authorised dealer for the icleen® TRAVELER:

