



CABIN AIR FILTERS

Against dust, pollen, particulate, aerosols, vapors, bacteria, and viruses.
Conform to driver's cabin protection categories: 2, 3, 4.

Meeting standards:

ISO 16890

EN 1822

EN 15695-2



On road



Off road



Marine



Industrial



Railway

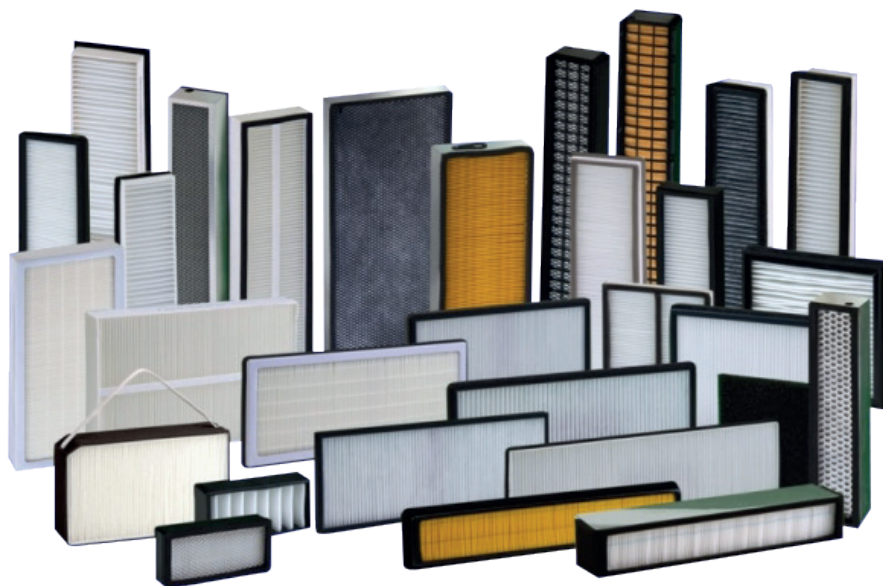
Longday supplies customised cabin air filters and air filter systems with engineering, for original equipment and retrofits. Each application requires its specific filter solution. That is why filters are designed and produced according customer requirements, very modular in make, filter class, filter media and size. Such filter designs are unique and customer specific protected. Our Long-term experience in design, development and production of customised filters, as well as selecting always the best possible material-mix, guaranties satisfied customers. Individual labeling and logistics according to customer requirements.

CATEGORY 2 - Cabin filters




Air filters for general ventilation against dust, pollen, and particulate meet ISO 16890

Air filter elements according to the ISO 16890 series are evaluated in the laboratory by their ability to remove aerosol particulate expressed as the efficiency values ePM1, ePM2,5, and ePM10 (Particulate Matter). Air filters for general ventilation are widely used in heating, ventilation, and air-conditioning applications of buildings. In this application, air filters significantly influence the indoor air quality and, hence, the health of people, by reducing the concentration of particulate matter.

Similar to EN779:2012, the EN ISO 16890:2016 testing method of filters also considers the percentage of dust collected in a filter to classify the filter. Yet, this method no longer considers one particle size diameter but reflects the overall dust classification system recommended by the World Health Organization (WHO).



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For coarse filters, the filter effect is evaluated by measuring the initial gravimetric arrestance when challenging the filter with synthetic test dust using AC-fine test dust.

For fine filters, the fractional efficiency is measured in the range of 0.3 to 10-micron particle diameter. This measurement is performed on a new filter and the same filter after discharge. These measured fractional efficiencies are used to calculate the average efficiency against typical aerosol distributions.

Typical applications:

- Driver cabs, breathing air systems, protection ventilation, dust collectors
- HVAC systems, ventilation systems, cooling systems
- Industrial engines, forklift, compressors
- Cleaning systems, vacuum cleaner
- Welding systems, suction systems, blasting systems, paint Systems

CATEGORY 3 - Cabin filters

High-efficiency particulate air (HEPA) filters against dust, pollen, aerosols, vapors, bacteria, and viruses meet norm DIN EN 1822

Used in the field of ventilation and air-conditioning, as well as in technological processes such as clean-room technology or the pharmaceutical industry.




Our filters available in many variants and combination with activated carbon absorb different odors, dangerous fumes, and toxic gases to protecting the driver.



Filters meeting the HEPA standard must satisfy certain levels of efficiency. Common standards require that a HEPA air filter must remove-from the air that passes through-at least 99.95% (European Standard) of particles whose diameter is equal to 0.3 μm .



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Typical applications:

- Driver cabs, breathing air systems, protection ventilation, dust collectors
- HVAC systems, ventilation systems, cooling systems
- Cleaning systems, vacuum cleaner
- Welding systems, suction systems, blasting systems, painting Systems

Filter classes:

- High-efficiency particulate air filter HEPA / ULPA according to DIN EN 1822
- In combination with activated carbon, our filters absorb foul odors, dangerous fumes, and toxic gases as for sample ABEK, H₂S, CH₄, SO₂, NH₃, etc.

CATEGORY 4 - Cabin filters

Combination filters with HEPA filter media and activated carbon cubes, are specially designed for agricultural tractors and self-propelled machines that must meet the requirements of EN 15695-2




The EN 15695-2 standard was released to protect the operator (driver) against hazardous substances and it stipulates that dust, aerosols, and gaseous contaminants that arise during the use of toxic substances and liquid fertilizers are not permitted to enter the vehicle cabins.

Our CAT4 filters, which are available in many variants, absorb different odours, hazardous vapours and toxic gases. Thanks to the unique and powerful activated carbon cube in the filter, our filters separate extremely dangerous vaporous impurities that can be harmful to human health.

Leading OEMs in this market segment use our filters in their vehicles. Together with them, we have continuously developed new solutions for the local and different environmental requirements. The result is highly efficient dust holding capacity filters that maintain low pressure drop values and reduce the energy consumption of the vehicle's ventilation system.



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Strengths:

- 99,99% gas absorption
- Light-activated carbon modules (nongranules) with very low air-flow resistance
- Modular & flexible 3 element structure, tailored according to specific requirements
- Flame retardant according to DIN53438
- No dust emission
- Low noise flow






Air Filter Media List

Organic media, Coarse according to ISO16890, ePM10 according to ISO16890, ePM2,5 according to ISO16890, ePM1 according to ISO16890, E10 EPA according to EN 1822, E11 EPA according to EN 1822, E12 EPA according to EN 1822, H13 HEPA according to EN 1822, H14 HEPA according to EN 1822, U15 ULPA according to EN 1822, U16 ULPA according to EN 1822, U17 ULPA according to EN 1822, H13-H14 HEPA media plus granulated carbon, H13-H14 HEPA media plus honey comb carbon, Cat. 2, 3 and 4 media according to EN15695-2, Ecological media, Flame retardant media, Hydrophobic water-repellent media, Carbon impregnated media



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