

AIR FILTERS



Already since decades, the brand name of Airfil is respected of it's vast variety of air filters among power generation, transportation vehicles, work machines, industrial processes, compressors and HVAC service and diverse maintenance applications. Basic prerequisites for manufacturing a safe and high quality air filter, is the state-of-the-art filter media together with right dimensioning and quality assurance through all manufacturing steps. Moreover the geometry and construction of the filter are ensuring air cleanliness for intake air of motors and processes and safe environment aspects and human well being. Starting from the very beginning, for the new born enterprise was given the name Airfil, which has ever since obliged and honoured it's employees in the manufacture of high grade airfilters.

Continuing product development and good price/quality relation, has ensured AFA-air filters a solid position as one of the most sold replacement filters among the Finnish markets. Moreover to the "visible" markets, Airfil is supplying air filters for many different customers within the industry, (like OEM-clients and private label distributors). Within industrial processes and general maintenance needs, there are often demands for customised replacement filter solutions, where Airfil can fluently support its customers. Increased environmental airborne impurities are requiring more efficient air filtration techniques in many applications. We have plenty of experience about Highest Efficiency Particle Air Filters (HEPA and ULPA) and the combined use of activated carbon for example within vehicle and HVAC use.

HEAVY VEHICLES AND WORK MACHINES

Airfil can offer a vast choice of vehicle motor and cabin air filters. Most of them are available ex stock. The ever growing product selection is expanding according to the latest generations of automotive and work machines entering markets. However it is not always profitable to manufacture absolutely everything by yourself! In automotive and work machine filter sectors we have a world class supplier: Baldwin Filters working with us. Just take a look to our FilterFinder, which identifies a huge nr. of automotive and work machine filters. Filters are manufactured precisely according to the original dimensions with metallic or plastic end caps or frames. The pleat pack is supported by bonding or supporting construction according to the need of each different geometry of the pleat pack. We are using also mini-pleat pleating which ensures the optimal support of the pleat packs. Airfil is a pathfinder in the use of activated carbon and HEPA within the cabin air filtration applications. Activated carbon is used either as a combination of a fibre matrix or as granules in heavy duty applications.

COMPRESSORS

Air filter has a decisive role when it is acting as a warden in the air intake system of a compressor, where impurities are continuously trying to penetrate inside the system and cause wear and tear and malfunction of the machines and jeopardize the supply of dry and clean pressurized air. Airfil air filters and oil separators are used in nr. of compressors as original parts. The long experience and special know-how together with active product development, are assuring the unremitted function of compressor also under severe service conditions.

DUST REMOVAL

Dust removal and dedusting are vital functions for ensuring fluidity of process flow and environmental safety and human well being. Profound experience of many industrial applications and tested and qualified filter media are ensuring the use of appropriate technical solution for each customer according his/her process specific need. The dust of each plant vary strongly in different applications i.e. according to the used raw materials and manufacturing methods. Therefore the need of different technical solutions are very different depending on each case stretching from tiny breathers to gigantic filter house systems. The crucial inside part and the soul of the system, is the filter element and the combined cleaning facility. Our delivery program is consisting of: cartridges, cassettes, bags and other sewn special filters.

Typical applications are:

- sandblasting
- powder painting
- laser- and plasmacutting
- pneumatic transport and silos
- central vacuuming systems
- welding and grinding
- sawmills
- foundries
- mould manufacturing

HVAC SYSTEMS AND PROCESS AND POWER GENERATION INTAKE AIR

Stiff bodied Airfil Rigitex pocket filters can handle high dust concentrations and are perfect problem solvers for applications needing extended service life and high dust holding capacity. Airfil Rigitex is the right solution wherever the user wants to save money by just using a single replacement filter instead of several standard pocket filters during same period of time! Airfil VBank rigid filters are offering low delta P and unbeatable price/quality choice for long term use in demanding heavy duty applications like air intake systems of basic load power plant gas turbines. VBank filters are well applicable also to be used in high hygiene filtration systems and industrial processes as well as HVAC applications.

AFA AIR FILTER PANELS

Due to flexible manufacturing system the frame size of AFA-panels can be selected in wide range: The face dimensions can be max 1200 x 1200 mm and the thickness of the pleat pack can vary between 10-160 mm. Frame material is either power craft cardboard or electro plated sheet steel. The available EN779 filter efficiencies are G3-G4, M5-M6 or F7-F9. The used synthetic filter media is water repellent and progressive in structure. The filtering mechanisms are based on mechanical effects, caused by small fibre diameter and density of the fibre matrix. The efficiency increases according to the amount of the dust load of the filter. The pleat pack is supported depending to its size by bonding the tips of the pleats (with a comb) or using a support grid on the clean size to withstand the stress during the service life. (The support grid can be optionally installed on both sides.) Activated carbon (charge coal) can also be used as the filter media of panel filter.