

HYBRID FILTER



ELEX – EXCELLENT INDUSTRIAL GAS CLEANING SINCE 1934

ELEX is the globally recognised leader for the cleaning of industrial gases and recovery of reusable materials. Each of the more than 7'000 plants installed worldwide since 1934 focuses on specific customer needs. Depending on stated requirements, the plants are either completely manufactured by ELEX or within the parameters of project-related cooperation agreements, as new units or extensions to existing plants.

We are dedicated not only to cutting-edge technology but also to the utmost reliability and durability of our products. This commitment lies at the heart of our product design, making our name synonymous with the flawless purification of industrial gases. Our expertise in crafting integrated solutions assures our customers that they can trust us both now and in the future. ELEX stands unrivaled in quality and our innovative spirit will undoubtedly continue to shape the next 7'000 units and beyond.



HIGH QUALITY ASSURANCE - YOUR WORRY FREE SOLUTION

When we talk about quality, we mean much more than just flawless technology, customer-oriented solutions and products that are reliable and durable. Our passion for quality runs like a red thread through every aspect of our collaboration – be it before, during or after the production and installation of your plants.

Our business philosophy is shaped by years of experience, highly skilled and flexible employees and our comprehensive expertise, which allows us to optimize your plant to meet your specific requirements throughout its entire lifecycle. Our goal is to always provide you with tailored solutions that meet your needs.

MINIMUM EFFORT DURING THE EVALUATION PHASE

Lightening your work load begins as early as the project-planning stage. We place great emphasis on listening to you and asking the right questions to provide you with the best possible solution in the shortest time and with the least effort on your part.



UNINTERRUPTED OPERATION DURING THE IMPLEMENTATION PHASE

With Swiss reliability and thoroughness, we meticulously conduct our preliminary clarifications and holistic project planning to ensure that the installation of your plant leaves you entirely satisfied. We prioritize punctuality and cost adherence, while minimizing any impact on your operations until the handover of the facility.

MAXIMUM RUNNING TIMES DURING THE OPERATING PHASE

After our highly qualified engineers have installed the plants with their expertise and carefully trained your technical staff, it is extremely rare that further support from our side is needed. You will also experience this level of reliability. Our plants are known for their remarkable dependability and enduring performance. However, should you ever require our assistance, whether for comprehensive maintenance, integrating new components or consulting on modernizing the plant, we will be readily available to help.



Cement works, Spain
Preheater kiln



Cement works, Brazil
Preheater kiln

HYBRID FILTER

The clever combination of a practically maintenance-free electrofilter with a bag filter creates a remarkable synergy effect, enabling outstanding pure gas values with low specific energy consumption. Our tailor-made hybrid filter systems are the result of decades of experience and continuous research, aimed at delivering the best possible outcome for you.

SCOPE OF APPLICATION

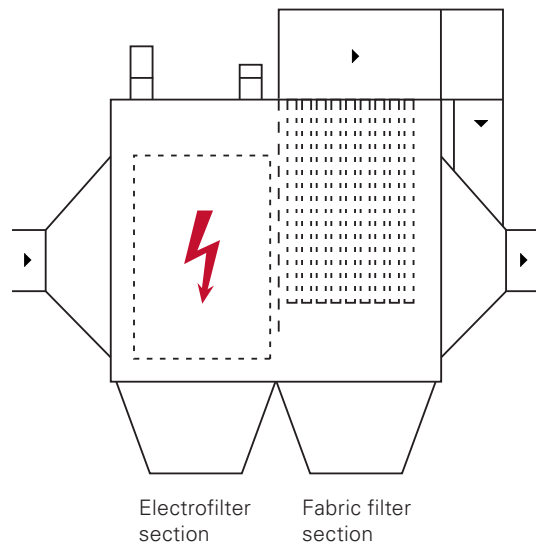
Hybrid filter systems are most commonly applied in the cement industry and with coal- or biomass-fired boilers. We are here to assist you in finding the optimal solution tailored to your specific needs. Leveraging our extensive experience and relentless research, we provide carefully customized hybrid filter systems that consistently ensure the achievable optimum for your operations.

SUCCESS FIGURES

70 HYBRID
FILTERS

5'000 PIECES OF
TUBES

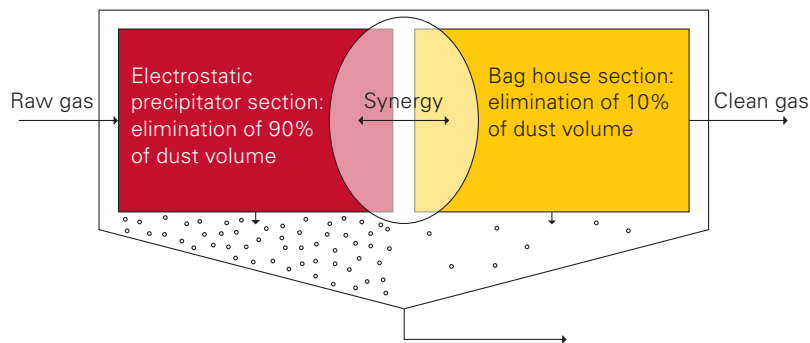
16'500 m² MAX.
FABRIC FILTER AREA



ELEX HYBRID FILTERS INCREASE THE EFFICIENCY OF EXISTING INSTALLATIONS

Over time, operating conditions may change or the desire for an expansion of production capacity may arise. In such scenarios, existing filter systems often reach their limitations and they no longer meet the necessary requirements. It is precisely in these situations where the conversion from a electrostatic precipitator to a hybrid filter presents itself as an elegant solution to adapt to the new conditions without the need to replace the entire system.

THE ADVANTAGES COMPARED WITH CONVENTIONAL BAG HOUSES



One electrostatic precipitator field alone is capable of eliminating at least 90% of the dust volume at very low energy consumption. Thanks to the ionisation and agglomeration effect in the electrostatic precipitator section, pressure loss in the bag house is reduced by up to 40%. As only 10% of the cleaning performance is carried out by the bag house, the use of compressed air is significantly reduced, which consequently significantly extends the life and maintenance intervals of the filter media. As a result, overall efficiency is higher than with bag houses.



Cement works, Spain
Preheater kiln



Cement works, Spain
Cement mill

OUR ENGINEERS LOOK FORWARD TO THE CHALLENGE

Hybrid filters have become sought after not only within the cement industry or for coal- or biomass-fired boilers but also due to their exceptional adaptability across various industries. Our personalized pre-discussion will ensure we pinpoint the perfect solution tailored meticulously to meet your specific requirements. Moreover, we are pleased to offer references that align with your upcoming project, granting valuable insights into our successful past undertakings. You can confidently rely on our comprehensive expertise to optimize your systems and achieve remarkable performance levels.



Power station, India



WE WILL NOT SETTLE FOR LESS THAN THE BEST WORLDWIDE

For a list of references and for more information, please visit our website at www.elex.ch.



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